ISLAMIC REPUBLIC OF PAKISTAN FAISALABAD WATER AND SANITATION AGENCY

# PREPARATORY SURVEY REPORT ON THE PROJECT FOR REPLACEMENT OF PUMPING MACHINERY AT INLINE BOOSTER PUMPING STATION & TERMINAL RESERVOIR IN FAISALABAD IN THE ISLAMIC REPUBLIC OF PAKISTAN

# FINAL REPORT

June 2015

Japan International Cooperation Agency (JICA) Kokusai Kogyo Co., Ltd.

## Summary

#### 1. Background of the Project

Water supply coverage of Pakistan is 65% in the entire country, 85% in urban areas and 55% in rural areas (The Medium Term Development Framework 2005). Faisalabad is the third most populous city in Pakistan and the second most populous city in the Punjab Province (approximately 3.1 million) and its average population growth rate between 1990 and 2013 was approximately 3.2%, which is above the national average. This population growth is in part due to emerging industrial growth over the same period, particularly in the textile industry.

In Faisalabad City, Faisalabad Water and Sanitation Agency (hereinafter, FWASA) is responsible for water supply, which is about 98% dependent on groundwater as a water source. The FWASA has been developing, with the support of donors, water resources and water supply facilities such as the projects to develop the Chenab well field in 1992 with the support of ADB and the Jahn Branch Canal well field in 2012 with the support of Japan Grant Aid, as well as a French government sponsored project to develop well field and construct a purification plant and so on.

However, the served population in 2013 is only about 1.55 million people, corresponding to 50% of Faisalabad's urban inhabitants because of the high population growth rate. The FWASA is considering development of new water sources, however, no concrete progress has been made because there remains concern about the impact of groundwater development on local agricultural communities and that it will cause declining groundwater levels around the wells. Moreover, surface water development has been impeded because of the need for modifications in water rights.

The water facilities at Chenab are vital in terms of Faisalabad City's water supply, because they supply about 55% of the total water volume for the city. However, facilities at Chenab have been operating more than 20 years, and are aging. Distribution pumps at the Terminal Reservoir break down frequently and this affects the stability of the water supply; booster pumps at the Inline Booster Pump Station cannot transmit the total amount of water from Chenab well field; and energy efficiency has deteriorated, and costs associated with energy consumption have increased, by continuing to run these pumps. In recent years, population growth and economic growth have resulted in power shortages and rising electricity costs, worsening the financial situation of FWASA, which only secures about 45% of its operating costs from water and sewage bills. As of 2012, electricity costs accounted for about 39% of FWASA's operating costs. Under these circumstances, renewing the pump facilities at Chenab, stabilizing the supply of water, lowering the cost of water supply and ultimately improving the overall financial conditions of FWASA through more efficient energy consumption has become a matter of urgency.

In addition, there is a design problem at the Chenab Terminal Reservoir (hereinafter, T/R) that needs to be addressed. The installation position of distribution pumps is higher than the low water level of the reservoir, increasing the suction lift and causing cavitation when trying to utilize water from the lower

half of the reservoir, practically limiting the use of the reservoir to just half of its designed capacity. For this reason the supply from the reservoir cannot meet the peak demand of the day. Furthermore, water leakage from the aging wall of the T/R results in the loss of about 600 m3 of water per day.

Thus, Japan International Cooperation Agency (hereinafter "JICA") conducted a Preparatory Survey from August 2013 to October 2013, confirmed National Plans related to the water supply sector of Pakistan, the current situation of water supply facilities which FWASA maintains, and basic information about the capacity of those involved in operation and maintenance of the facilities, to confirm the need of strengthening the capacity of water supply facilities of FWASA and to consider the possibility of assistance by Japan. FWASA informed the preparatory survey that it needed to strengthen its current capacity for water supply, which stands at 398,250m3 per day (as of September 2013), to 765,000 m3 per day by 2017. The preparatory survey revealed that, while the strengthening of facility capacity and the development of water supply facilities by 67,500 m3 per day has been planned and implemented via French government assistance, the water supply capacity of the water supply facilities remain insufficient.

### 2. Conclusions by the Preparatory Survey and Components of this Project

In the Preparatory Survey, it was judged that it would be necessary to renew both the booster pumps at the Inline Booster Pump Station and the distribution pumps at the T/R, and take countermeasures against water leakages at the T/R. In addition, it was recommended that a new distribution pump station should be constructed for renewal of the distribution pumps at the T/R, in light of the construction process, safety, the need to turn off existing distribution pumps during construction, and other considerations. There was a request from Pakistani counterparts for generators to operate the booster pumps at the Inline Booster Pump Station and distribution pumps at the T/R in case of power failure, but it was not included in the scope of the Project since power is supplied to both locations by distribution lines independent from the substation.

The final scope of this Project, based on the above, is as follows: In terms of facility construction, the project will include the renewal of booster pumps at the Inline Booster Pump Station to transmit the water from Chenab well field to the T/R, construction of a new pump station and the renewal of distribution pumps at T/R, and countermeasures for water leakage from T/R in its scope. As for the Project's soft component, technical instruction on valve operation at the T/R, for pressure reduction after distribution by distribution pumps, will be given.

Items	Contents
1) Facilities	Renewal of booster pumps at inline booster pump station
	Construction of pump station at T/R
	Renewal of distribution pumps at T/R
	Leakage control of T/R
2) Soft components	Technical support and capacity building
(Technical assistance)	(Water pressure reduction technique by valve operation)

Table 1: Contents of Japanese Assistance

After the verification of the relevance of both the facility plan and soft component (technical assistance) plan and preparation of the final draft contents of the Project, a tour to explain the Draft Outline Design to Pakistani counterparts was conducted from April 9 to April 19, 2014. The outline of Japanese Assistance, planned facilities and soft component are shown in the tables below.

Chenab Well field	Design Intake Flow: 204,780 m <sup>3</sup> per day					
Inline Booster Pump Station	Design Transmission Flow: 204,780 m <sup>3</sup> per day					
	: 10,239 m <sup>3</sup> per hour					
	Large Pump: 48.8 m <sup>3</sup> per minute ×4 units (3+1 back up)					
	Small Pump: 24.4 m <sup>3</sup> per minute ×2 units (1+1 back up)					
	Incidental Equipment (Pipes, Control panels, Flow meter, etc.)					
T/R Pump Station	Design Distribution Flow : 161,880 m <sup>3</sup> per day					
	: 13,230 m <sup>3</sup> per hour (Pump)					
	: 5,500 m <sup>3</sup> per hour (Gravity)					
	Pump Operating Time : 6 hours					
	Gravity Operating time : 15 hours					
	New Pump Station (Reinforced Concrete)					
	Rehabilitation of Water Leakage at T/R					
	Large Pump: 63.0 m <sup>3</sup> per minute ×4 units (3 +1 back up)					
	Small Pump: 31.5 m <sup>3</sup> per minute ×2 units (1+1 back up)					
	Incidental Equipment (Pipes, Control panels, Flow meter, etc.)					

Table 2: Outline of the Facilities Pl
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Table 3: Outline of Soft Cor	nponent
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Outputs	Objectively verifiable indicator	Means of verification				
Reduction of water	Understand the relationship between volume of	Comprohension test				
pressure is appropriately	water distribution and water pressure	Comprehension test				
practiced on the						
secondary supply lines	Operate valves for depressurization in supply	Measurements of water distribution				
after the distribution of	lines against the volume of water distribution	volume and water pressure				
water						

# **3. Implementation Schedule**

The implementation schedule of the Project is shown in the table below.

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	Repair of Water Lekage at T/R																								
Mec	hanical and electrical work																								
	Drawing preparation and approval	ш	ļIIII																						
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Com	pletion inspection		1																						
	Month	1	3	1	4	1	5	1	6	1	7	1	8	1	9	2	20 21		22 23		3	24			
Build	ding work		8																						
Civil	work																								
	Inline Booster Pump Station		8										1						1						
	Terminal Reservoir		8			******			-				1		-				[						
	Repair of Water Lekage at T/R																								
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Table 4: Implementation Schedule of the Project

# 4. Project Evaluation

# (1) Validity

Pakistan has formulated its National Drinking Water Policy in 2009, and has set a goal to provide safe drinking water to all citizens by 2025. The Punjab Drinking Water Policy (2010), against this backdrop, has set goals to protect water sources from water pollution and to give priority allocation of water resources to the drinking water supply, and to conduct organizational reform so that the Water and Sanitation Agencies (WASA) of five cities in the Punjab Province become independent agencies in both management and organization. However, increasing operating costs due to soaring electricity prices, especially the increase in the cost of providing power has become an obstacle for policy implementation. This Project aims to reduce the operational costs of FWASA through the improvement of energy efficiency, through the renewal of water supply facilities that are currently lowering the energy-cost

performance. The overall objective is to sustainably provide a stable water supply, and the need for this Project is high.

The Project includes the renewal of the pumps at the Inline Booster Pump Station and T/R as one of the cooperation. The existing pumps are made in Japan. For the new pumps to be renewed by the Project, it will be advantageous to install pumps with low failure rates, high energy efficiency and quality, and that undergo vigorous checks before being dispatched from factories. It is considered that Japanese products meet these requirements; thus, there is a demonstrable necessity and advantage in using Japanese technology in this Project. The facilities and equipment to be provided by the Project do not require excessively advanced technology in construction and operation. There are no negative environmental or social impacts that will hinder the implementation of this Project. Therefore, it is possible to carry out this Project by Japanese grant aid. Pakistan is able to carry out the operation and maintenance of the facility and equipment after the completion of the Project through their human resources and funds.

Japan has identified "ensuring human security and improvement of social infrastructure" as a priority area under its Country Assistance Strategy (April 2014) for Pakistan. This Project is positioned within the "program of ensuring water and sanitation" under the development challenge "health and environmental improvement". Within this program, this Project will work towards the improvement of access to safe water and improvement of hygienic environment, by supporting water and sewage facility development, organizational management improvement, securement of financial soundness, operation and maintenance improvement, and the strengthening of planning capacity.

In this way, this Project is consistent with, and highly relevant to, Japan's assistance policy and Pakistan's development needs and policies.

#### (2) Effectiveness

#### 1) The Quantitative Effects

The quantitative effects of the Project are expected as follows.

Index	Reference Value (2013)	Target Value (2020:3 years after project completion)				
Power Consumption of Booster, Distribution Pump	0.259	0.232				
Hourly Maximum Water Supply (m <sup>3</sup> /h)	8,418	13,230				
Daily Maximum Water Supply (m <sup>3</sup> /d)	149,508	161,880				

Table 5: Quantitative Effectiveness of the Project

#### 2) The Qualitative Effects

In terms of qualitative effects, improvement in the financial situation of FWASA through the reduction of power consumption, reduction of maintenance costs and stable operation of the equipment through the update of the pump equipment, reduction of the area where the residents cannot access

sufficient water, and mitigation of the effects of climate change may be expected from this Project.

Relevance as well as the effectiveness of the Project is expected to be high, due to the above.

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# Abbreviations

ADB	Asian Development Bank
A/P	Authorization to Pay
B/A	Banking Arrangement
BCP	Building Code of Pakistan
BIS	Bureau of Indian Standards
BS	British Standards
DfID	Department for International Development
DIN	Deutsche Industrie Normen
ECNEC	Executive Committee of National Economic Council
E/N	Exchange of Notes
FDA	Faisalabad Development Authority
FWASA	Faisalabad Water And Sanitation Agency
GDP	Gross Domestic Product
GL	Ground Level
GNI	Gross National Income
HUD&PHED	Housing, Urban Development and Public Health Engineering
	Department
HWL	High Water Level
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
JBC	Jhang Branch Canal
JICA	Japan International Cooperation Agency
JIS	Japanese Industrial Standards
LCC	Lower Chenab Canal
LWL	Low Water Level
PC-1	Planning Commission Document-1
P&D	Planning & Development Department, Government of
	the Punjab
PKR	Pakistan Rupees
T/R	Terminal Reservoir
USGS	United States Geological Survey
WAPDA	Water and Power Development Authority
WASA	Water and Sanitation Agency
WHO	World Health Organization

# **Chapter 1**

# **Background of the Project**

# Chapter 1. Background of the Project

## 1-1 Background of Grant Aid

#### 1-1-1 Background of Preparatory Survey

Water supply coverage of Pakistan is 65% in the entire country, 85% in urban areas and 55% in rural areas (The Medium Term Development Framework 2005). Faisalabad is the third most populous city in Pakistan and the second most populous city in the Punjab Province (approximately 3.1 million) and its average population growth rate between 1990 and 2013 was approximately 3.2%, which is above the national average. This population growth is in part due to emerging industrial growth over the same period, particularly in the textile industry.

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#### 1-1-2 Field Survey

In the field survey conducted from August 2013 to October 2013, it was reconfirmed that the objective of the Project is to renew the pumps of Chenab Inline Booster Pump Station and T/R, to stabilize the operation of water facilities, to increase the energy efficiency, to reduce the cost of water distribution, and to contribute to the realization of stable and sustainable water supply services. Requests from Pakistani Side confirmed in the field survey are shown in the following table.

In the initial request, the number of generators (1000kVA, 3.3kV) was set as four, however, after confirming the request letter from the FWASA, it was confirmed that the number of generators to be recorded in the minutes to be five generators.

As technical assistance, initial operation guidance of facilities and equipment, and the soft component related to the operation and maintenance was requested.

Original Request	Final Request	Remarks
1) Facility		
Inline Booster Pump Station		
Booster Pump	No change	
(27.2m <sup>3</sup> /min x 3nos., 51.0m <sup>3</sup> /min x 4 nos.)		
Generator	No change	
(700kVA, 3.3kV x 3 nos.)		
Incidental Work	No change	
(Pipeline, Control Panel, Flow Meter, etc)		
Terminal Reservoir		
Distribution Pump	No change	
(27.2m <sup>3</sup> /min x 3 nos., 37.7m <sup>3</sup> /min x 7 nos.)		
Generator	Generator	
(1000kVA, 3.3kV x 4 nos.)	(1000kVA、 3.3kV x 5 nos.)	
Incidental Work	No change	
(Pipeline, Control Panel, Flow Meter,		
Rehabilitation of reservoir tank and pump		
station, etc.)		
Cutting and removal of trees on the Project site		It will be borne by Pakistani
		Side
2) Design/Supervision		
Detail Design	No change	
Assistance in Tendering	No change	
Construction Supervision	No change	
Soft component	No change	

Table 1-1: Original and Final Request of Pakistani Side

# **1-2** Natural Conditions

(1) Meteorological Condition

Pakistan faces the Himalaya Mountains to the north and the Arabian Sea to the south. The climate is desert climate (BW) in the south central area, steppe climate (BS) in the north area, and humid moderate climate with dry winter (Cw) in the northern mountainous area. The climatic and natural conditions vary vastly between regions. As a major feature, the Indus River, the headwaters of which are in the Himalayas, flows through the central part of Pakistan and has a major impact on the country's natural, social and economic conditions.

1) Rainfall

Compared to countries of Monsoon Asia in general, rainfall of Pakistan is less throughout the country, with rainfall in the target area less than 500 mm a year, climate is divided into rainy season (June to September) and dry season (October to May). Rainfall data at Faisalabad is recorded in the table below.

Mor	Day oth	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Jan	2.5	1.0	0.0	0.0	0.4	0.0	0.0	0.4	0.9	3.4	0.0	0.0	0.1	0.0	0.0	0.6	0.4	1.7	0.3	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.1	0.9	0.0	0.0	0.0
	Feb	0.0	0.0	0.7	0.0	0.3	0.0	2.6	0.3	1.2	2.3	4.3	0.3	0.5	2.3	0.6	1.7	0.0	0.0	0.3	0.2	0.6	0.0	0.7	0.0	0.0	1.6	1.1	0.1	0.0		
	Mar	0.5	0.0	0.3	0.7	0.2	0.3	0.2	0.1	0.0	0.9	0.0	1.4	1.6	0.7	0.4	0.3	0.3	2.0	0.0	2.5	0.6	2.5	0.0	0.0	0.6	1.4	0.0	2.0	0.5	0.0	0.0
12	Apr	0.0	0.0	0.7	0.0	0.2	0.6	0.4	1.7	0.3	0.0	0.3	0.2	0.0	0.6	0.2	3.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.8	0.6	0.0	0.0	0.2	
- 2 0	May	0.1	0.0	0.0	2.9	0.1	1.5	0.2	2.3	0.3	0.0	0.2	0.0	0.0	1.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0	3.2	0.0	0.0	1.6	4.4	0.0	1.0	0.0	0.0	0.0
05-	Jun	3.0	0.0	1.5	0.0	0.0	0.1	0.0	0.0	0.0	0.6	1.6	0.0	1.1	0.6	0.0	1.9	0.3	2.1	2.2	1.9	1.1	0.5	0.0	0.0	0.0	0.0	0.0	4.7	8.8	6.1	
20	Jul	4.4	3.7	0.9	3.8	0.1	0.0	0.6	3.9	10.5	0.0	0.0	8.5	20.2	4.3	5.4	1.0	0.0	0.2	0.0	1.5	9.7	14.2	0.2	0.6	0.9	0.0	0.1	3.9	4.4	0.3	2.0
) e	Aug	8.6	3.3	0.1	0.1	3.9	7.7	0.0	14.1	1.7	0.9	1.3	14.1	1.4	0.6	2.3	5.6	3.7	0.4	3.1	0.0	7.9	3.9	0.6	5.0	0.8	3.6	0.6	0.4	2.0	2.6	3.4
rag	Sep	0.0	6.2	1.4	2.8	5.0	2.1	0.8	6.7	7.0	5.0	1.0	0.0	0.0	3.8	1.0	14.9	5.8	5.7	0.1	0.0	0.0	1.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
٧e	Oct	0.0	0.0	0.0	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.6	0.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A	Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Dec	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.4	0.1	0.6	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.1	0.0
	Total																															

Table 1-2: Daily Rainfall at Faisalabad (mm)

(Source: Faisalabad University Weather Station)



(Source: Faisalabad University Weather Station)

Figure 1-1: Monthly Rainfall



(Source: Faisalabad University Weather Station)

Figure 1-2: Yearly Rainfall

## 2) Air Temperature

The annual range and the daily range of air temperature are large. Air temperatures is over 30 degrees from April to October, maximum air temperature exceeds 40 degrees from May to June in particular. Meanwhile, minimum air temperature falls below 10 degrees from December to February, and air temperatures vary greatly throughout the year. Air temperature data at Faisalabad is recorded in the table below.



Figure 1-3: Air Temperature

# 3) Wind Speed

Around the project site, while the average wind speed increases between June and September during the rainy season, it is still less than 2m/sec. The wind is mild throughout the year. Wind speed data at Faisalabad is recorded in the table below.



(Source: Faisalabad University Weather Station)

Figure 1-4: Wind Speed

## 4) Humidity

Humidity varies depending on the season, and changes according to precipitation. The rainy season is generally humid, and the dry season is generally dry.

Humidity data at Faisalabad is recorded in the table below.



<sup>(</sup>Source: Faisalabad University Weather Station)



## (2) Natural Disaster

### 1) Cyclone

Pakistan experiences some cyclones which originate in the Arabian Sea, most are already in a weakened state by the time they reach the Pakistani coast, namely coastal areas Baluchistan and Sindh provinces. Therefore, Faisalabad city is not affected by cyclones.

#### 2) Flood

Regarding the target site of the Chenab Inline Booster Pump Station and T/R, it has been confirmed by the staff of FWASA that it has never experienced any flood inundation damage.

## 3) Earthquake

The frequency of occurrence of earthquakes is high in Pakistan. Major earthquakes occur mainly in mountainous areas of northern and western Pakistan, and have caused extensive damage in the past. However, Faisalabad City experiences very few earthquakes. In addition, since the size of earthquakes in Faisalabad is also small, there has not been confirmed heavy damage caused by earthquakes in the past.



(Source: United States Geological Survey)

Figure 1-6: Location Map of Earthquake in and around Pakistan

V		Magnitude in Richter scale													
rear	Unknown	<b>~</b> 3.0	3.0~3.9	4.0~4.9	5.0~5.9	6.0~6.9	7.0~7.9	8.0 ~	Total	tremor					
1909							1		1	7.0					
1928						1			1	6.6					
1931						1	1		2	7.1					
1935								1	1	8.1					
1945								1	1	8.0					
1947						1			1	6.9					
1966					2	2			4	6.8					
1972					3				3	5.9					
1973				12	8				20	5.6					
1974				8	5	2			15	6.2					
1975				11	5				16	5.5					
1976				4	1				5	5.3					
1977				7	4				11	5.5					
1978			1	9	5				15	5.5					
1979				10					10	4.8					
1980				12	3				15	5.4					
1981				14	3				17	5.4					
1982				8	4				12	5.2					
1983			1	11					12	4.8					
1984			1	18	7				26	5.6					
1985				15	5				20	5.7					
1986			1	12	2				15	5.3					
1987			2	13	1				16	5.0					
1988				17	2				19	5.5					
1989				15					15	4 7					
1990				27	8	1			36	6.0					
1991			1	24	3				28	5.6					
1992			10	29	10				49	5.9					
1993			1	11	5				17	5.6					
1994				. 1	2				10	5.5					
1995			4	14	1				19	5.6					
1996			7	17	3				27	5.2					
1997			81	126	9	1	1		218	7.1					
1998			8	29	3				40	5.4					
1999			3	15	6				24	5.7					
2000			4	14	1	1			20	6.0					
2001			2	16	3				21	5.2					
2002			6	26	1				33	5.8					
2003			1	14	1				16	5.0					
2004			3	21	5				29	5.5					
2005		1	288	287	46	1	1		624	7.6					
2006			77	47	3				127	5.2					
2007			22	33	4				59	5.5					
2008			87	80	7	2			176	6.4					
2009			1	15	, 6	2			22	5.5					
2010			· · · ·	19	<u>р</u>				27	5.0					
2011				25	3		1		29	7 2					
2012				28	3		<u>'</u>		31						
2013			1	50	7	1	1		60	7 7					
Total	0	1	613	1171	208	14	6	2	2015	-					

Table 1-3: Magnitude of Earthquake in and around Pakistan (1900-2013)

(Source: United States Geological Survey)

## (3) Topographical Condition

Faisalabad City is located at the center of the nearby vast Indus plain made up by the Indus River and four of its tributaries. Among them, Faisalabad City belongs to the plain called Rechna Doab,

sandwiched by two rivers, the Chenab River to the west and the Ravi River to the east.

Indus River has a history of repetitive massive flooding, which has created the vast and flat Indus plain from midstream to downstream. The plain continues from the Punjab Province to Sindh Province, occupying an area of approximately 200,000 km2 of the Punjab Province. Faisalabad City located in the center of the Rechna Doab is on the terrace where the geological epoch is older than the river plain areas to the east and west, and is slightly higher than the surrounding area. There is a gentle slope from the city down to the two rivers to the east and west respectively. This is why, even though it is sandwiched between two rivers, neither the water facilities of this project nor Faisalabad City have ever been damaged by flooding in the past.

#### (4) Geological Condition

The entire region of Rechna Doab is covered in thick sediment carried down from the Himalayas by rivers on both the east and west sides. The geological foundation is consolidated bedrock of Tertiary and Precambrian metamorphic rocks that outcrop on the right bank of the Chenab River, with unconsolidated alluvium such as sand, gravel, clay, silt, etc. of Pleistocene epoch and Holocene epoch of Quaternary deposited on top of this bedrock.

A hydrogeological investigation was conducted in the entire region by the "Pakistan Water and Power Development Authority" in the 1960s. According to the results of the drilling survey, the thickness of the alluvium on the bedlock varies by each area, but in the target areas and its surrounding is about 180 m. Regarding the constitution of these alluvium, the sand layer is the major constituent, in particular the fine sand with less than medium grain is prominent and it is confirmed that the groundwater is mainly found in those sand layers. In addition, in order to ensure the water source of Faisalabad City, the hydrogeological investigations were carried out in succession in these areas, so that the hydrogeological characteristics are reaffirmed. Through these studies, the clay layers as the impermeable layers are not developed in any horizontal and vertical direction in the alluvium, and it is clear the clay layers exist only partially, forming a lens. In addition, the World Bank master plan evaluates the plain forms a huge unconfined aquifer of 200 m depth from the fact that there is no impermeable layer clearly present in the alluvium.

#### 1-3 Environmental and Social Considerations

#### (1) Environmental Considerations

The purpose of the Project is the replacement of the existing pumping facilities, and there is no foreseen development of new water sources nor increase in well yield. Accordingly, there will be no new impacts on the environment associated with the implementation of construction and facility replacement in the Project. Therefore, there are no adverse environmental impacts expected to arise from implementation of the Project, however, IEE by Pakistan side is required for the replacement of water supply facilities of the Project.

### (2) Social Consideration

Since the replacement of the existing booster pumps will be implemented inside the Inline Booster Pump Station, there will be no negative impact resulting from land acquisition associated with the replacement of the facilities. In the same way, since the new pump station will be constructed in the same compound as the existing T/R and as the site is owned by FWASA, there will be no negative impact related to land acquisition.

The Project will implement the replacement of water facilities by utilizing the existing Chenab well field. Since the design intake flow is calculated by available water intake from well field in consideration of the amount of decrease in groundwater level calculated by the pumping tests and impacts on the surrounding agricultural wells, negative impacts on groundwater resources are expected to be extremely negligible, if any.

# Chapter 2

# **Contents of the Project**

# Chapter 2. Contents of the Project

## 2-1 Basic Concept of the Project

#### (1) Overall Goal and Project Goal

The Project aim is to achieve sustainable and stable water supply services in Faisalabad City through stabilizing operation of the facilities, improving efficiency of energy consumption and reducing the cost of water supply by the replacement of the pump at the Inline Booster Pump Station and T/R Pump Station, namely facilities with a water source in the Chenab well field.

#### (2) Outline of the Project

Faisalabad is the third largest city in Pakistan (population of approximately 3.1 million), however, only 50% (1.55 million people) of the population can benefit from the water supply of 354,000 m3 of water per day in 2013.

In Faisalabad City, the FWASA is responsible for the management of water services, which depend on groundwater for about 98% of the water supply. In addition to the FWASA's own project, FWASA is developing water sources with the support of donors, water facilities such as Chenab, Jhang Branch Canal (hereinafter, JBC) developed by the Japanese government, Jhal Water Treatment Plant and Rakh Branch Canal Upstream Well-field financed by the French government which is currently in progress, and so on.

However, due to the high population growth rate (about 3.2% on average during 1990-2013), the current water sources are expected to be able to provide only about 60% of the water demanded in 2017.

Under these circumstances, the FWASA is considering development of new water sources. However, conspicuous progress is not seen due to the concern about the impact to the local agriculture and lowering of groundwater level around wells by groundwater development; moreover, issues surrounding water rights need to be overcome before development of surface water can progress.

On the other hand, Chenab water facilities, which are the main facilities of the FWASA and are more than 20 years old, provide about 55% of water distributed to Faisalabad City. Not only has the stability of the city's water supply service declined because of the frequent failure and performance decrement of the pumps at the Inline Booster Pump Station and T/R due to the aging, but also the energy efficiency of distribution by pump is getting worse. As a result, the operating cost by these pumps is increasing.

Furthermore, in recent years, the electricity price is rising because of power shortages due to population growth and economic growth, and this has worsened the financial situation of the FWASA, which only manages to cover about 45% of its operating costs with water and sewerage charges. Meanwhile the energy cost has reached about 39 % of total operating costs in 2012. Under such circumstances, renewing the pump facilities, stabilizing the operation of the existing facilities by the elimination of old machinery, reducing water supply costs through greater energy efficiency, and improving the management situation are the urgent issues.

In fact, the current faulty design of the T/R causes the cavitation due to a large suction lift when the pumps try to distribute the lower half of water of T/R to the city. Consequently only half of the water in the T/R is available to supply to Faisalabad City, and it is not enough to meet the peak hourly water demand.

Under such circumstances, the Project will: replace the pumps at the Inline Booster Pump Station and T/R, construct a new pump station at the T/R, repair water leaks at the T/R, and conduct the soft component to control the water pressure of distribution pipe in order to achieve the project goal.

Thereby, it is expected that the capacity of operation and maintenance of water facilities will improve and that it will become possible to supply safe water continuously to Faisalabad City.

The outline of the facilities planned in the Project is shown in the following table.

Chenab Well field	Design Intake Flow: 204,780 m <sup>3</sup> /day					
Inline Booster Pump Station	Design Transmission Flow: 204,780 m <sup>3</sup> /day					
	: 10,239 m <sup>3</sup> /hour					
	Large Pump: 48.8 m <sup>3</sup> /min ×4 nos. (3+ 1 back up)					
	Small Pump: 24.4 m <sup>3</sup> /min ×2 nos. $(1 + 1 \text{ back up})$					
	Incidental Equipment (Pipes, Control panels, Flow meter, etc.)					
T/R Pump Station	Design Distribution Flow : 161,880 m³/day					
	: 13,230 m <sup>3</sup> /hour (Pump)					
	: 5,500 m <sup>3</sup> /hour (Gravity)					
	Pump Operating Time : 6 hours					
	Gravity Operating time : 15 hours					
	New Pump Station (Reinforced Concrete)					
	Rehabilitation of Water Leaking at T/R					
	Large Pump : 63.0 m <sup>3</sup> /min ×4 nos. (3+ 1 back up)					
	Small Pump : 31.5 m <sup>3</sup> /min ×2 nos. $(1 + 1 \text{ back up})$					
	Incidental Equipment (Pipes, Control panels, Flow meter, etc.)					

Table 2-1: Outline of the Project

# 2-2 Outline Design of the Japanese Assistance

## 2-2-1 Design Concept

## 2-2-1-1 Basic Concept

- (1) Contents of the Project
- 1) Scope of Assistance

This Project is to rehabilitate the water supply facilities in the Chenab Inline Booster Pump Station and the Chenab T/R, which are more than twenty years old, by replacing the facilities consisting mainly of pump equipment. Because of aging, booster pumps of Chenab Inline Booster Pump Station and distribution pumps of T/R can't exert those capabilities, the water from the water source and Inline Booster Pump Station are limited. And because of the elevation of existing distribution pumps, whole volume of water of T/R can't be distributed by distribution pumps. In order to distribute the whole amount of water of the current water source to the Faisalabad city and in order to increase the hourly distribution volume and distribution hours, the need for renewal of facilities to improve the water supply condition of Faisalabad city was confirmed. Because of this, replacing the aging booster pumps and distribution pumps of both Inline Booster Pump Station and T/R and repairing the leaks at the T/R will be conducted. Specifically, implementation of the following functions can be achieved by the Project.

- The entire amount of water from Chenab well field will be able to be transmitted stably to the T/R by replacing the old booster pumping equipment of the Inline Booster Pump Station which can't exert those capabilities because of aging.
- The whole amount of water from the Inline Booster Pump Station will be able to be distributed stably to Faisalabad City – thereby ameliorating the situation whereby only half the capacity of the Chenab T/R is available due to cavitation – by replacing the old equipment of the distribution pumps at the T/R and constructing a new pump station where the replaced new distribution pumps are installed in a lower position.
- Water wasted in the distribution process will be mitigated by repairing the water leaks in the T/R, the operation of booster pump and distribution pump will ensure the function that the water is distributed in the city without wasting water.

In this Project, the main purpose is to build the facilities for supplying the entire amount of water from the Chenab well field to the Faisalabad City. Operation time of booster pump of the Inline Booster Pump Station is set as twenty hours to match the operation time of Chenab well field, existing booster pump station is to be used, only the replacement of mechanical and electrical equipment which is mainly the booster pump is carried out. About the T/R, it is necessary to lower the installation position of distribution pump to utilize the existing reservoir; therefore a new pump station will be constructed, in consideration of the workability, safety, effect of the distribution to

the city during the water outage because of construction. About the distribution pump, the specification will be set as to distribute the whole amount of water obtained from water sources within twelve hours of pumping.

2) Site Selection

Project Sites are the Chenab Inline Booster Pump Station at Chiniot City and T/R, which is located in the north of Faisalabad City. Some of work to connect the Inline Booster Pump Station to the existing pipe will be conducted outside of the Pump Station. However, most of work will be conducted within the compound of the Inline Booster Pump Station, therefore there is no particular problem about land acquisition. About the T/R, the compound is a vast area of about 44,000 m2. However, there are already existing reservoir tanks and pump stations, only a limited area will be remained to construct the new pump station.

For the location of the proposed pump station, the land of the T/R near the entrance is determined to be the most appropriate construction place, because the loading of materials and equipment access from the outside is easy. Therefore it will be easy to gain the cooperation of the operation with the existing JBC pump station, and it will be necessary to stop the water supply temporarily at the time of construction when the pipe is switched, but this will not cause much trouble to the operation of existing facilities.

(2) Concept for the outline design

The following figure shows the concept used when considering the effectiveness and relevance of the content of the outline design of the Project. The outline design is considered by the following figure, after understanding the current situation in accordance with the result of the study and clarification of design concept.



Figure 2-1: Concept for the Outline Design

# 1) Setting of optimum pumping yield and design intake flow of the Chenab well field

The water source of the Project is the existing Chenab well field. The Project does not renew the well field, moreover the Project sets the design intake flow by the current situation of the facilities of the well field. As the design concept, optimum pumping yield of Chenab well field is calculated based on the result of the pumping tests and considering the impact on surrounding irrigation wells. In addition, the design intake flow is set within the range of optimum pumping yield by calculating the amount of water which can be transmitted by existing water facilities channeled up to the Inline Booster Pump Station. This design intake flow becomes the basic value for consideration of the specifications of the booster pump and distribution pump.

2) Setting of the target to improve the water supply service

The design distribution flow is to be set based on the design intake flow, whole water demand and the future plan, by clarifying how much service of the water supply would be improved.

3) Consideration of Specifications of Booster Pump of Inline Booster Pump station

The specifications and number of the booster pump after replacement is planned by the design intake flow, the dynamic water head on the inflow side of the Inline Booster Pump Station and operation time of the well field, etc. The amount of water supplied in relation to the water demand of Faisalabad City reveals that about 61 % of demand is not being met (2012). Therefore, the amount of water transmitted from Inline Booster Pump station to T/R is to be set as the whole amount of design intake flow.

4) Pump Station Plan of T/R

Based on the design intake flow and the objective of water supply, the repair of the pump station and the construction of a new pump station are compared, and then pump station plan is set on the basis of the consideration results.

5) Consideration of specification about Chenab Distribution Pump at T/R

The specification and the number of replacements of new distribution pumps are planned based on the objective of water supply.

6) Leakage Control at Chenab T/R

The measure for reducing water leakage is planned by confirming the condition of water leakage at the existing Chenab T/R.

7) Distribution Plan from T/R and relativeness with the French government Project

Based on the planned distribution pump specifications, in addition to considering the water distribution plan after implementation of the project, the relevance in water distribution with the French government project (particularly newly constructed distribution pipes) is to be clarified.

#### 2-2-1-2 Concept for Natural Conditions

The temperature of the Project site varies widely with the seasons, such as diurnal temperature exceeds 40 degrees Celsius with high temperature and humidity in summer, while the minimum temperature falls below 10 degrees Celsius in winter. Rainfall is relatively low, ranging from around 500 mm annually, and the area has around 100 mm a month of good rain from July to September which does not cause adverse effects on the works of the Project.

In this climatic condition, the whole area including from the Chenab well field to Faisalabad City belongs to the plain called Rechna Doab, which is nestled between the Chenab River in the west and the Ravi River in the east, and which is covered in a thick bank of sand flowed from the Himalayas . The source of groundwater is permanent water supply which originated from continuous-vast-flat land form, the plain nestled between the two rivers and percolation from the artificial agricultural waterway. In the Project, existing Chenab well field is taken as the main water source and the design intake flow is set to

minimize deterioration of groundwater level in consideration of rural areas utilizing surrounding agricultural wells.

Even though the Project site is nestled between said two rivers, incidences of floods have never been recorded so far at the T/R Pump Station and Faisalabad City. Since the elevation of T/R Pump Station is about twelve meters higher than the elevation of Chenab River, to consider the occurrence of flood is not realistic. Therefore, effects of flooding are not considered in the design concept of the facilities. Even though Faisalabad City has experienced quite a few earthquakes so far in Pakistan, the Pakistani building code takes into account the possibility of earthquakes. The pump station at T/R is designed by the seismic coefficient set in accordance with the building code of Pakistan taking into account the fact that the constructed pump station in the Project at the T/R Pump Station is a core facility of Faisalabad City's water supply.

#### 2-2-1-3 Concept for Socioeconomic Conditions

In Pakistan, power supply is typically scarce and rolling blackouts of 10 hours a day have been implemented. The major facilities are powered by generators during outages in Faisalabad City.

However, regarding the water facilities, power is supplied by a dedicated power line independent of the regular power lines from the substation because of the importance of the facilities. While sudden power failures occur several times a month, rolling blackouts have not affected the facilities. During the survey there was one power failure at the T/R. This was thought to be due to an accident. Accordingly, the facilities are considered to have a stable supply of power for its operation, with the only interruptions being from sudden and unexpected events.

In this Project, there has been a request for the installation of generators to operate the pumps at the Inline Booster Pump Station and at the T/R. However, the Project will further investigate the actual necessity of generators at these facilities in consideration of the fact that the water supply facilities, in principle, receive a constant power supply and that the situation is different from in Faisalabad City. As a result, a new generator is not considered necessary and, therefore, is out of scope of this Project.

#### 2-2-1-4 Policy Concept for Construction and Equipment Procurement

(1) Permission, Laws and Regulations related to implementation of the Project

For the implementation of the Project, it is required to undergo a preliminary review of development projects in Pakistan through the approval process of PC-1.

In regard of the construction authorization, FWASA would submit the necessary application forms for construction (inclusive of layout view, plan view and elevation view) to the administration in Faisalabad City with the cooperation of the contractor.

(2) Codes, Standards and Construction Methods in Building Design

Pakistan has its own building code (the Building Code of Pakistan) for construction of facilities. The Project performs the facility design using the code in principle. In addition, Japanese design criteria of

water supply is also referred to.

As for standards related to materials, because the British Standards and Bureau of Indian Standards are widely used, the Project adopts them.

#### (3) Procurement of Construction Materials and Equipment

Main construction materials, such as cement, aggregates, reinforcing bar, electric cables and pipes are to be procured in Pakistan as local procurement. It is planned to use pump equipment that is made in Japan, because of its low failure frequency, its excellence in energy efficiency and product quality. The materials and equipment procured from Japan, mainly pump equipment, are expected to be shipped to Karachi, which is the international port of Pakistan, and then be transported by road on a truck or by rail.

#### 2-2-1-5 Concept for Utilization of Local Contractors

Local construction methods will be adopted in order to utilize local contractors. Local contractors in Pakistan are categorized by the Pakistan Engineering Council as C-A, which is the top, followed by C-B, C-1, C-2, and so on. Contractors categorized as C-A can participate to offer a tender of all the public construction works, contractors categorized as C-B can offer a tender no more than two billion Rs, contractors categorized as C-1 can offer a tender no more than 1 billion Rs, etc. Contractors in Pakistan have enough technical capabilities related to the construction of infrastructure such as highways. Contractors between C-A to C-2 have the capabilities and sufficient construction machines for subcontracting work under Japanese contractors if the construction is done using general methods.

Since grant aid projects have been implemented in Pakistan in the past, and some by FWASA such as "Faisalabad water supply improvement plan", "Faisalabad water supply expansion plan", it is feasible to implement the Project construction by employing local constructors and local workers in accordance with the system of grant aid of Japan. Therefore, local contractors would be actively adopted in the Project in consideration of clarification by the above categories.

There are constructors who have experience implementing general construction works and civil engineering works and engineers who can perform supervision of construction works, however, there are no engineers that have experience installing the same type of pumps and associated machines and electrical equipment as those to be used in the Project. Thus, execution management engineers in charge of pumps installation work are to be dispatched from Japan.

#### 2-2-1-6 Concept for Operation and Maintenance

FWASA, the executing agency has operated Chenab water facilities that started operation in 1992 and JBC water facilities that started operation in 2012, and has provided water supply services to Faisalabad City. The purpose of the Project is the replacement of the existing Chenab water facilities at the Inline Booster Pump Station and T/R, and the Project does not change the base of distribution systems. Therefore, it is expected that FWASA would be able to operate and maintain the facilities by making good use of its experience and knowledge even after completion of the Project.

On the other hand, since the distribution water volume per hour from the T/R will increase after

completion of the Project, FWASA will be given training on how to control the number of pumps for operation according to distribution water volume through trial operation and initial operational guidance on the completed facilities.

And since the increase of pump distribution volume, and main distribution pipeline will become two lines, the existing main distribution pipeline and the ones of the French government Project, water pressure in the main distribution pipe is necessary to be controlled in accordance with the volume of water distribution. For this reason, together with the initial operational guidance, the training of advancing skill for water pressure reduction will be conducted by the technical assistance.

#### 2-2-1-7 Concept for Facility Design

It is prioritized that facilities are to be easy to operate and maintain so as to secure sustainability and continuation of the facility operation. And the new pumps and related equipment of the Project to replace existing facilities are to be selected by referring to the specifications of the existing equipment. In particular, the JBC reservoir and pump station were completed in 2012 at the T/R. Regarding the replacement of the T/R pump station, the basic structure of the Chenab pump station and its pump facilities are determined with reference to the JBC pump.

#### 2-2-1-8 Concept for Quality Control and Responsibility

This Project does not require any unusual nor difficult construction methods. The work schedule is unlikely to be affected by the climate in Faisalabad City thanks to the low rainfall throughout the year. However, a delicate quality control by a Japanese company is expected especially to set an appropriate work schedule in order to ensure quality of construction in consideration of deterioration of work efficiency and negative impacts on concrete during hot summer.

Though the Project has two distant sites, the Inline Booster Pump Station and T/R, integrated service of both facilities is required for distribution of water to the city. As such, in order to secure smooth interaction of both facilities and to realize the responsibility, this Project should be handled by a contractor and, consequently, without dividing in several lots nor construction periods.

### 2-2-2 Basic Plan (Construction Plan)

# 2-2-2-1 Setting of the Optimum Pumping Yield and Design Intake Flow of Chenab Well Field

#### (1) Setting of the Critical Yield

The results of the pumping tests conducted at the time of Chenab well construction that were obtained in the Project show that, although pumping more than 600m<sup>3</sup>/hour was carried out by the step drawdown test, a rapid change of the groundwater level accompanying the increase in a pump discharge was not seen, and the critical yield could not be confirmed. It means that the critical yield was more than 600m<sup>3</sup>/hour.

About the result of the data for pumping discharge and groundwater level at the rehabilitation which was conducted for wells in 2009, aquifer loss coefficient is approximately the same as that of construction time, and the lowering of groundwater levels to pump discharge is almost equal. Therefore, it can be judged that critical yield of 2009 was almost equivalent to that at the time of well construction.

Based on the results of the pumping test conducted in this study, in the case whereby the aquifer loss coefficient is calculated similarly, the value was less than that at the time of construction and rehabilitation, it can be estimated critical yield has not changed even in the present. Therefore, the critical yield in the Project will be set at  $600\text{m}^3$  / hour, to proceed with further study.

(2) Setting of the Optimum Pumping Yield

By estimating the critical yield of Chenab well field as 600m<sup>3</sup> / hour or more, the optimum pumping yield is calculated as 420m<sup>3</sup>/hour as 70% of the critical yield. Although this value is calculated by the current groundwater potential of Chenab well field, since the Chenab well field was designed using 400m<sup>3</sup>/hour, the Project will set the maximum value of the optimum pumping yield as 400m<sup>3</sup>/hour. Moreover, the optimum pumping yield of the Project is calculated in consideration of : the amount of pumping of Chenab well field corresponding to the groundwater level that can be pumped from the irrigation water well, and the pumping amount corresponding to the structure of the transmission line and Chenab well field.

1) Target Year

In case that the Project is carried out, the pumps of the Inline Booster Pump Station will be replaced and operation will be restarted in 2017. Just as the Inline Booster Pump Station sees the time of replacement after 20 years from the start of service, it is assumed that replacing time for new pump facilities will come around the year of 2037, 20 years after 2017. In addition, it is said the life of the well is around 30 to 50 years, and the age of the existing wells, which were constructed in 1992, will exceed 40 years in 2037. Therefore, the timing of when the pump facilities of the Project and existing wells will need to be replaced next are substantially overlapped. This means the possibility that next extensive replacement of the facilities will be carried out after 20 years, which in turn means that the facilities which are replaced by the Project will be utilized
for another 20 years from now. Therefore, the Project will consider the target year as 2037, for calculating of the optimum pumping yield.

2) The Range of the Permissible Dynamic Water Level

The pumps installed in the existing wells are turbine pumps manufactured by KSB. It is necessary to secure the following water levels, from the bottom of the upper casing for the permissible dynamic water level of the pump.

5	
Required minimum height from the first pump of the pump	450 mm
to the water surface	
Height of the pump inlet	365 mm
Clearance from the bottom of the pump inlet to the bottom	200 mm
of upper casing	
Total	1,015 mm

Table 2-2: Acceptable Length from the Bottom of the Upper Casing

Among 29 wells, permissible dynamic water level of 5 wells shown in the construction record of FWASA at the time of the well construction is as follows. As well, according to the data in 2009, at the time of the rehabilitation of the pump except TW11 and from TW26 to TW29, the dynamic water level is in the range of 22.8 m to 31.7 m.

Table 2-3. Acceptable Dynamic water level of the we				
Well	Well	Upper Casing	Acceptable Dynamic	
Number	Depth	Depth	Water Level	
	(m)	(m)	(m)	
TW2	114.17	46.52	45.505	
TW7	105.48	34.48	33.465	
TW12	124.00	46.53	45.515	
TW13	122.75	44.13	43.115	
TW22	135.31	47.57	46.559	

Table 2-3: Acceptable Dynamic water level of the Wells

Among the 5 wells above, the well which permissible dynamic water level is shallowest is TW7 and the value is 33.47m. The data of the other 24 wells do not exist, therefore the Project will consider on the basis of TW7.

3) Calculation of the Amount of Decrease in Groundwater Level

The Project will conduct the long-term forecast of decrease in groundwater level by the Cooper Jacob method which took into consideration interference of 29 wells of the Chenab well field.

a) Pumping Discharge

Although the Design intake flow is 400m<sup>3</sup>/hour per well, 20 hours operation per day, and 8000m<sup>3</sup>/day, as far as operating record, it is rare for all the wells to operate for 20 hours or more per day.

According to the "Basic Design Study Report on the Project for Improvement of Water Supply

in Faisalabad (2004)", appendix 8-12, the average daily pumping amount is 158,946 m<sup>3</sup>/day in December 2001, 162,916 m<sup>3</sup>/day in June 2002, it can be surmised that the facility has been operating with the pump discharge of about 160,000m<sup>3</sup>/day up until now.

There is no record about pumping discharge in FWASA, many of water meters, which are set in the wells have failed, or have not been calibrated, therefore to grasp the right pump discharge in each well is difficult. But pump discharge assumed by consideration based on the pump discharge from T/R included water leaks of around 130,000 to 170,000m<sup>3</sup>/day. This seems to be the reason also for the lowering of groundwater level of Chenab well field, but since 6 hours per day of pump operation is conducted from the T/R, it is considered that only the amount of water required was pumped up. From the above, it is assumed that 6000m<sup>3</sup>/day on the amount of water from one well was pumped up in the past.

In addition, 400m<sup>3</sup>/hour of water is set as maximum pump discharge from one well, the Project will decide the volume of pump discharge as a value of 2037, with the condition that dynamic water level of TW7 will not become less than permissible dynamic water level.

On the other hand, groundwater level was measured in the observation well during the pumping test, the groundwater level of the observation well is shallower than the estimated groundwater level of the production well, measured at about 8m to 14m, and the static water level in the observation well is constant around the range of 14m to 19m. In addition, the drawdown of groundwater level is estimated to be about 2.0m in the future, as a result, in irrigation wells, it is necessary to take into consideration the existence of the well exceeding groundwater level GL-21m required for operation of the irrigation pump.

In order to use the irrigation wells continuously, it is necessary to suppress the groundwater level to less than GL-21m. In that case, on comparison of the possible pumping discharge and optimum pumping yield in TW7, definitive optimum pumping yield is made as a small value among both in the Project.

#### b) Transmissibility Coefficient, Storage Coefficient

Transmissibility coefficient and storage coefficient are the values calculated from the result of continuous pumping test and recovery test, and are values that represent the properties of the aquifer that are saturated with groundwater.

The amount of decrease of groundwater level of each well after pumping of a fixed amount for a fixed period from 29 wells of Chenab well field can be calculated by the Cooper Jacob formula, by using both coefficients obtained by pumping test of the study. In this way, it is possible to calculate the amount of decrease of groundwater level for each well in chronological order.

Transmissibility coefficient and storage coefficient calculated from pumping test are shown as follows.

Transmissibility Coefficient : 21164m<sup>2</sup>/day

Storage Coefficient : 0.00151

4) Result of Calculation

The result of the calculation, the maximum pump discharge in which the dynamic water level of TW7 is not less than allowable dynamic water level in 2037 is 7700 m<sup>3</sup>/day. Since the pump operating time in Chenab well field is 20 hours per day, pumping discharge has been 385m<sup>3</sup>/hour. In addition, the maximum pump discharge which can be found from the groundwater level required for irrigation well is 7200m<sup>3</sup>/day per well, therefore the pumping discharge is 360m<sup>3</sup>/hour. Therefore, in this Project, optimum pumping discharge of one well is planned as 7200m<sup>3</sup>/day. The total pumping discharge from the 29 wells is 208,800m<sup>3</sup>/day.

(3) Setting of the Design Intake Flow

From the previous section, although the total amount of 208,800m<sup>3</sup>/day of water is possible for taking from all of the wells, it means 360m<sup>3</sup>/hour from each well. On the other hand, the groundwater level of the Chenab well field is lower than at the time of construction, with the lowering of the groundwater level, amount of water pumped from the wells is limited.

The possible pump discharge of each well was calculated based on: the specifications of existing pumps installed in the wells, groundwater level of each well, and the specification of transmission line from each well to the Inline Booster Pump Station, if the amount of water intake which is determined by the property of current structure, and flow of the water in the transmission pipe are calculated by the hydraulic analysis. The results are shown in the following table.



Figure 2-2: Layout of wells and transmission line

Node	Pumping	Amount	Pump Head	Dynamic Level	①Head of Spout	②Necessary Head	1-2
Num	(m3/h)	(m3/s)	(m)	(m)	(m)	(m)	(m)
1	464	0.13	33.27	-27.84	5.09	5.06	0.03
2	458	0.13	34.31	-27.97	6.01	5.86	0.15
3	458	0.13	34.31	-27.36	6.62	6.60	0.02
4	450	0.13	35.64	-28.00	7.32	7.25	0.07
5	444	0.12	36.57	-28.43	7.83	7.82	0.01
6	438	0.12	37.50	-28.27	8.92	8.82	0.11
7	431	0.12	38.54	-28.36	9.88	9.80	0.08
8	419	0.12	40.29	-29.20	10.81	10.70	0.11
9	369	0.10	46.28	-27.28	18.78	18.68	0.10
10	348	0.10	47.54	-25.99	21.35	21.31	0.03
11	309	0.09	48.25	-25.84	22.24	22.23	0.02
12	407	0.11	42.00	-29.90	11.84	11.75	0.09
13	396	0.11	43.46	-30.47	12.74	12.72	0.01
14	391	0.11	44.08	-29.68	14.16	14.06	0.09
15	383	0.11	44.97	-29.51	15.22	15.15	0.07
16	376	0.10	45.66	-29.38	16.05	16.00	0.05
17	356	0.10	47.15	-28.85	18.09	18.08	0.01
18	336	0.09	47.91	-28.12	19.60	19.57	0.04
19	302	0.08	48.29	-27.42	20.71	20.67	0.04
20	284	0.08	48.41	-26.83	21.44	21.44	0.00
21	264	0.07	48.73	-26.20	22.41	22.40	0.01
22	253	0.07	49.04	-25.14	23.79	23.76	0.03
23	253	0.07	49.04	-24.45	24.48	24.44	0.04
24	255	0.07	48.98	-23.82	25.04	24.98	0.06
25	393	0.11	43.83	-24.59	18.99	18.85	0.14
26	316	0.09	48.20	-22.22	25.81	25.78	0.03
27	242	0.07	49.52	-20.15	29.26	29.22	0.05
28	224	0.06	52.78	-19.68	33.01	30.75	2.26
29	220	0.06	52.78	-19.58	33.12	31.17	1.95
100	Inline Boo	ster Pum	Station			5.00	0.00

Table 2-4: Optimum Pump Discharge from each Well

Pumping Amount: 10239  $(m^3/h)$ , 204780(m3/day:20 hours operation)

The above table shows pumping discharge of each well at Chenab well field that are calculated based on the specification of the transmission line from each well, as water head at the inflow side of Inline Booster Pump Station is about 5 m. The number of each well for calculation is same as well number, the number of Inline Booster Pump Stations is set as 100.

Although the pumping discharge from each well is designed as 400m<sup>3</sup>/hour at Chenab well field, at present, pumping discharge from each well have varied by lowering of groundwater level and loss of water head of transmission line. The result of calculation makes the total pumping discharge from each well 204,780m<sup>3</sup>/day.

Line	Node	Num	Diameter	Length	Flow Rate	Velocity	H-W Coefficient	Hydraulic Gradient	Head loss
Num	Start	End	(m)	(m)	(m3/s)	(m/s)	С	(‰)	(m)
1	24	23	0.4	397.0	0.07	0.56	100	1.377	0.55
2	23	22	0.5	407.0	0.14	0.72	100	1.662	0.68
3	22	21	0.5	387.0	0.21	1.08	100	3.511	1.36
4	21	20	0.6	384.0	0.28	1.01	100	2.507	0.96
5	20	19	0.7	413.0	0.36	0.94	100	1.860	0.77
6	19	18	0.7	405.0	0.45	1.16	100	2.731	1.11
7	18	17	0.7	384.0	0.54	1.41	100	3.877	1.49
8	17	16	0.7	393.0	0.64	1.66	100	5.290	2.08
9	16	15	0.9	414.0	0.74	1.17	100	2.058	0.85
10	15	14	0.9	411.0	0.85	1.34	100	2.635	1.08
11	14	13	0.9	407.0	0.96	1.51	100	3.291	1.34
12	13	12	1.0	404.0	1.07	1.36	100	2.408	0.97
13	12	8	1.0	361.0	1.18	1.51	100	2.901	1.05
14	11	10	0.4	464.0	0.09	0.68	100	1.964	0.91
15	10	9	0.4	332.0	0.18	1.45	100	7.931	2.63
16	9	8	0.4	441.0	0.29	2.27	100	18.090	7.98
17	8	7	1.2	440.0	1.58	1.40	100	2.050	0.90
18	7	6	1.2	420.0	1.70	1.51	100	2.346	0.99
19	6	5	1.2	373.0	1.83	1.61	100	2.665	0.99
20	5	4	1.4	399.7	1.95	1.27	100	1.420	0.57
21	4	3	1.4	414.0	2.07	1.35	100	1.593	0.66
22	3	2	1.4	412.0	2.20	1.43	100	1.778	0.73
23	2	1	1.4	408.0	2.33	1.51	100	1.973	0.81
24	29	28	0.4	400.0	0.06	0.49	100	1.048	0.42
25	28	27	0.4	400.0	0.12	0.98	100	3.841	1.54
26	27	26	0.4	400.0	0.19	1.52	100	8.590	3.44
27	26	25	0.4	400.0	0.28	2.21	100	17.315	6.93
28	25	1	0.4	432.0	0.39	3.08	100	31.935	13.80
29	1	100	1.4	20.0	2.84	1.85	100	2.859	0.06

Table 2-5: Hydraulic Calculation of the Transmission Line

The above table shows the flow volume, velocity, hydraulic gradient and loss of water head of each transmission line that is calculated based on the specification of the transmission line from each well of Chenab well field to the Inline Booster Pump Station. Fluctuation of the pumping discharge of each well has an impact on loss of water head on each route, and the head loss of routes where the hydraulic gradient exceeds 5 per cent is more than 2 meters. This is the reason why the pump discharge from Chena well field is limited.

Analysis is carried out based on the expected water level in 2017 when the facilities of the Project start service. Since the current groundwater level is down compared to the groundwater level of 1992, when the service of Chenab well field started. The water head at the spout of the pump is expected to decrease, and the diameter of transmission pipe from wells to Inline Booster Pump Station is too small for the water head of 2017. In addition, even though the optimum pump yield from the well is 360m<sup>3</sup>/hour, some pumps cannot discharge 360m<sup>3</sup>/hour of water when every pump is operated. Therefore, the facilities cannot meet the specified optimum pumping yield of 208,800m<sup>3</sup>/day of groundwater.

In order to pump up the optimum pumping yield, 208,800m<sup>3</sup>/day, it is necessary to upgrade the intake

pump to bigger pump than existing pump, or upgrade the transmission line to a bigger diameter. However, there is no plan regarding the upgrade of these facilities in FWASA, therefore, as the design intake flow of the Project, it is appropriate not to set the plan at the optimum pumping yield of 208,800m<sup>3</sup>/day but 204,780m<sup>3</sup>/day which can be determined by the institutional structure.

Therefore, the Project will carry forward the facilities planning that design intake flow is 204,780  $m^3/day$ .

#### 2-2-2-2 Target Setting of the Water Supply Services in the Implementation of the Project

The water demand of Faisalabad is increasing, however, the amount of water supply is insufficient. Therefore, the total amount of design intake flow from Chenab well field needs to be distributed to the city at least. However, at T/R which is the main water supply facility, distribution pumps installed in the existing Chenab pump station cause cavitation because of the water level situation of T/R and the current installation height of pumps. Because of the need to avoid this cavitation, the Chenab T/R has been able to use only about half of its capacity.

If the effective capacity of T/R tank cannot be used adequately and in case the hourly distribution volume is less, it is possible to distribute the total design intake flow with sufficient water pressure by operating the pumps for a longer period of time. However distribution to meet peak demand is not possible. Further, increasing the distribution flow from the pump to match the demand of the peak, the operating time of the pump is restricted, water distribution is possible by gravity flow, but it means that the amount of water with secured water pressure that can be distributed in one day is limited. At present, although it takes six hours to distribute the water by the pump to the city because of an increase in electricity prices and financial circumstances of FWASA, and due to the current water level of the T/R tank and distribution volume from the T/R by the distribution pump, it turns out that about 21% of design intake flow cannot be supplied, as shown in the following table.

	Current Water Distribution
	Operation
Water Supply time (Pump distribution)	6 hours
Pump Distribution Amount per Hour	10,422m <sup>3</sup> /hour
Number of Operating Pump	Large Pump:3 nos, Small
	Pump: 1 nos
Distribution Hours by Gravity Flow	18 hours
Pump Distribution Amount	62,532 m <sup>3</sup> /day
Distribution Amount by Gravity Flow	99,000 m <sup>3</sup> /day
Total Distribution Amount	161,532 m³/day
Design Intake flow	204,780 m <sup>3</sup> /day
Percentage of Distribution Amount with Design	Approximately79%
Intake Flow	
Minimum Water Level of Reservoir Tank	GL+185.60m

Table 2-6: Distribution Flow from T/R

To solve this problem, if it is possible to take full advantage of capacity of T/R tank and it is possible to supply the total amount of water from T/R tank that flows from water source to T/R, it will be possible, under current conditions, to improve the water services. Namely, it will be possible to increase the supplied water volume at a stable pressure and expand the water supply time using the distribution pump.

Therefore, as targets of water supply in the Project, three years after the completion: "Expansion of operating hours to 9 hours from the current 6 hours of JBC distribution pump and increase of the water volume per hour from Chenab distribution pump", and in the future: "Expansion to 12 hours from the current 6 hours of the Chenab distribution pump" is set for improvement of water supply services which will increase the amount of water distributed by the pump and expand the pump operating time. In this case, if the replacement distribution pump will be on the same floor level as the existing pump station, it is not possible to avoid cavitation during the pump operation. Therefore, in order to take full advantage of the effective capacity of T/R, the floor level of the existing pump station needs to be lowered, or a new pump station that can ensure the building depth to avoid cavitations will be needed.

### 2-2-2-3 Specifications of Booster Pump at Inline Booster Pump Station

(1) Setting of Number of Pumps and Discharge Rate

The design transmission flow to determine the specification of the booster pump is 204,780m<sup>3</sup>/day, same as the design intake flow.

The number of the existing booster pumps is seven, but 4 large pumps and 2 small pumps would be installed for the Project in consideration of the set designed volume of delivering water and the discharge volume per one booster pump.

With regard to the discharge rate, the longer pump operation time per day means a lower transmission flow per hour. As a result, head loss becomes small and pump head can be suppressed. By taking into account operational aspect of the Chenab well field and Inline Booster Pump Station, operation time would be set at 20 hours a day.

If the discharge volume of booster pump is regulated at the same level as the existing booster pump, and one small pump is to be installed (two pumps including a back up), the discharge volume of small pump is regulated to half of the large pump, discharge volume and number of large and small booster pumps are shown in the table below. As well, since the space for the possibility of expansion is secured at the Inline Booster Pump Station, future expansion is possible.

Specification of the Existing Booster Pump	Specification of the Replaced Booster Pump
Large pump 51.0 m <sup>3</sup> /min ×4 nos. (3 + 1 back up)	Large pump 48.8 m <sup>3</sup> /min ×4 nos. (3 + 1 back up)
Small pump 27.2 m <sup>3</sup> /min ×3 (2 + 1 back up)	Small pump 24.4 m <sup>3</sup> /min ×2 (1 + 1 back up)
Pump Head:20m in the specification	Design Transmission Flow: 204,780 m <sup>3</sup> /day
Design Transmission Flow: 12,444 m <sup>3</sup> /hour	10,239 m <sup>3</sup> /hour

### Table 2-7: Design Transmission Flow, specification and Number of Booster Pumps

## (2) Setting of Total Pump Head

The total pump head of the booster pump is set at 34 m, as per the following table.

	Specification	Remarks
Design Transmission Flow per Hour	10,239 m <sup>3</sup> /h	
① Gross Head	8.79 m	H.W.L (188.2m) at T/R – Elevation (179.41m) of Booster Pump
② Head Loss of Transmission Line	29.0 m	Length:17,100m, Diameter:1500mm
③ Head Loss of around the Pump	1.21	
④ Water Head of Inflow side	5.0 m	Water head of inflow side of the booster pump
Total Head	34.0 m	1+2+3-4

Table 2-8: Setting of the Total Head of the Booster Pump

## (3) Installation of a Flow Meter for Transmission Line

At present, flow meter is installed at neither inflow side nor the outflow side of the Inline Booster Pump Station. Since the flow meter installed in each well in Chenab well field hardly works due to their breakdown, flow volume from water sources and transmission flow from Inline Booster Pump Station to T/R are not able to be checked directly. Therefore, the system that transmission flow to T/R is able to be checked directly would be established by installing a new flow meter at the second side of the Inline Booster Pump Station.

## (4) Consideration for Setting of Generator

At the request of the Project, generators are required in the Inline Booster Pump Station to operate the booster pump. Although rolling blackouts are conducted for up to 10 hours a day in Faisalabad City, Chenab well field and Inline Booster Pump Station have the independent power line laid from the substation, therefore they experience no rolling blackouts. Actually, a few accidental blackouts occur in a month, but in principal, the electricity is always delivered. In this situation, installation of generators is out of target on replacement of facilities due to its low need.

## 2-2-2-4 Pump station Plan of T/R

The current operation time of distribution pumps at T/R is 6 hours per day, in order to supply the total amount of the design intake flow to the city, the maximum distribution flow is 17000m3/hour over 12 hours operation of the distribution pump in a day. Then, Figure 2-3 shows the water level of Chenab T/R; 1) when the connection pipe between Chenab and JBC T/R is closed (the minimum water level of

the reservoir is GL+182.90) and 2) when the connection pipe between Chenab and JBC T/R is open (the minimum water level of the reservoir is GL+184.00).

In both cases, water level becomes lower than the operating water level (water level that cavitation occurs). Therefore, the setting level of distribution pumps replaced by the Project should be lower than the current water level. In order to lower the installation position of the distribution pumps, as described later, there are two proposed methods, one is to construct a new pump station with lower floor and another method is to lower the floor of existing pump station. These two proposals are compared.



Figure 2-3: Temporal variation of Water Level of T/R by the Situation of connection Pipe

# Comparison of the Methods due to the Change of the Installation Position of the Distribution Pump

In order to lower the installation position of the distribution pumps, two methods are considered: to build a new pump station with a lower floor and alternatively to lower the floor of the existing pump station. In case of excavation to lower the floor of the existing pump station, poor construction quality and deterioration of facilities, which was confirmed in the field study, is a concern. And also, it is necessary to consider the length of the water supply outage for replacement of pump equipment. In the following table, the construction of a new pump station and excavation of existing pump station are compared from three points of view, construction performance and safety, economy, and the length of the water supply outage.

	Digging Existing Pump station	Construction of New Pump Station
	Not Good	Good
Workability, Safety	Facilities decrepit Work in narrow places Cumbersome temporary works	General Construction
Economy	Good	Not Good
Motor cupply outogo	Not Good	Good
water suppry outage	About six months	About one month

Table 2-9: Comparison of construction of new pump station and excavating existing pump station

As shown in the table above, the construction of a new pump station is advantageous, except from an economic perspective. When considering excavating the floor of existing pump station, the following can be said as specific problems about workability and safety, economic efficiency, and water supply outage.

- The existing pump station is more than 20 years old, so there is concern that vibrations from demolition of concrete and digging up the floor during rehabilitation will affect the structure of the building. Since the wall of the existing pump station is constructed of brick, in particular, the possibility of collapse of the wall by the vibration cannot be ruled out.
- 2. In the case of digging the existing pump station, it is necessary to dig and replace the pumps one by one, and it is necessary to dig the floor of existing pump station in a limited space. In that case, temporary works that take into account the influence of the pump is required, and it becomes very complicated. Thus, for dealing with lowering the floor level, digging the floor after removing all of the existing pumps is suitable, in which case, it is necessary to secure the amount of distribution water separately, now it is distributed from the Chenab distribution pump.
- 3. The construction cost of a new pump station is 1.3 times higher than the cost of digging the existing pump station. About economy, although the cost of a new pump station is larger, the existing pump station is more than 20 years old. Therefore, if lowering the floor of existing pump station is selected by the Project, the repair of brick wall and roof will be needed on a regular basis because of deterioration of the existing pump station. For economic efficiency by comparing construction costs, the digging of existing pump station is advantageous, but if it considers even the maintenance costs for the future, it cannot be said that the digging of the existing pump station would be more economically advantageous.
- 4. The period of the removal of all distribution pumps, digging the existing pump station, and installing the new distribution pumps is six months. During this period, only JBC distribution pump is running. In this situation, if all of the pumps including the back up pump of JBC are operated, only 15,168 m<sup>3</sup>/hour of water can be secured, and the maximum flow rate record of the

past of about 16,000 m<sup>3</sup>/hour to 21,000 m<sup>3</sup>/hour cannot be secured.

5. In order to ensure the amount of distribution water during the construction period, it is necessary to install the additional pumps in the JBC pump station or temporary pumps outdoors. However, it takes a long period to procure and set up temporary pumps, and there is concern that this will cause delays to the start of construction and cause a major impact on the entire construction period.

Since the potential risks associated with the renovation of old facilities like the existing pump station are high, it is necessary to increase safety measures and temporary works for minimizing risks, which results in higher construction costs. Therefore, it is cost effective to construct a new pump station instead to improve the position of distribution pump.

## (2) Facility Location Planning

For construction of a new pump station, as candidate sites, it is considered in three places, 1. Open space near the entrance, 2. Land adjacent to the existing pump station, 3. Land on the south side.



Figure 2-4: Candidate Sites of New Pump Station

The comparison table of the three candidate sites is shown as follows.

	1. Open space near entrance	2. Land adjacent to the existing pump station	3. Land on south side
	Good	Not Good	Not Good
Traffic line	Close to the entrance Close to the JBC pump station	Far from the entrance Far from the JBC pump station	Far from the entrance Far from the JBC pump station
	Good	Not Good	Not Good
Loading of equipment is easyWorkabilityGood for access of heavy machinery		The construction site is small, the size of the temporary works becomes large Not good for access of heavy machine	The construction site is small, the size of the temporary works becomes large Not good for access of heavy machine
	Moderate	Moderate	Not Good
Other concerns	Necessary to break a part of existing pump station Necessary to replace and removal of some pipes	Necessary to replace the connecting pipe	Necessary to replace the connecting pipe There are concerns about security (access from the outside can be easily)

Table 2-10: Comparison of three candidate sites

If the new pump station is planned at the open space near the entrance, it is near to the JBC pump station, so movement between both facilities becomes easy. On the other hand, the land adjacent to the existing pump station and the land of south side are not good with regard to traffic access when maintenance is needed. In addition, every candidate site needs the removal of existing facilities, replacement of pipes, therefore construction scale of them is comparable. As a result of the overall judgment based on the above, the location of the new pump station will be planned to be in the open space near the entrance.

#### (3) Building Plan

#### 1) Architectural Plan

In order to achieve the necessary capacity of facilities under a limited budget, the target facility will be composed of the minimum rooms required. Specifically, it will be made up of a pump room, platform and electrical room.

Pump room will be designed as subsurface structure to set the level of distribution pump as same level as existing distribution pipe from Chenab T/R. At this time, center level of distribution pump will be designed as the same level as the center level of distribution pipe from Chenab T/R.

The platform for loading and unloading of distribution pump due to malfunction, repair, etc. will be set. In order to ride in the trucks directly in a pump station and in order to make the structure which can load and unload the pump by hoist crane, the platform will be designed as an overhang from inside of pump station.

The electrical room will be designed in order to place the pump control panels that control the distribution pumps. Distributing pumps are operated every day, and the electrical room needs to be accessed frequently, therefore the placement of the electrical room will be planned on the ground

floor. At this time, the walls between the pump room and electrical room will be designed with glass windows, so that the visibility of the distribution pumps becomes possible from the pump control panels.

Room name		Utilization	Floor size (sq.m)
Pump station	Pump room	To be used for setting the distribution pumps	622.5
(basement)		and pipeline.	
	Sub total		622.5
Pump station	Platform	To be used for riding in the truck, loading and	75.0
(Ground Floor)		unloading of distribution pumps.	
	Electrical Room	To be used for setting the power receiving	156.0
		equipment and pump control panels.	
	Sub total		231.0
Total			853.5

Table 2-11: Summary of Planned Facilities

#### 2) Section Plan

In a section plan, securing natural ventilation and natural lighting, and the prevention of intrusion of rain water will be considered. In order to secure the space to lift and move the distribution pumps and natural ventilation, the sufficient ceiling height will be secured.

Movement to the pump room corresponds by installing steel stairs in a platform. Moreover, pipeline from each distribution pump will be set in the pump room, therefore, movement on the basement floor will be difficult. For this reason, the steel catwalks will be connected to steel stairs, to make the movement to each distribution pump easy.

3) Structural Plan

The Project will adopt the Rahmen (rigid frame) structure with column and beams made by reinforced concrete for the construction. In terms of the roof of pump station, the Project plans flat roof with reinforced concrete. As for its foundation, the Project uses spread foundation generally adopted in Pakistan, because the soil condition of the Project site has been recognized as sandy soil including silt and there is plenty of soil bearing.

The Project will determine the wind load and seismic load of facilities based on a structural statement in Japan using concerned coefficient defined in Pakistani standard.

- 4) Building Equipment Plan
  - a) Lifting equipment

The distributing pumps installed by the Project are heavy machines, and since those pumps are set in a basement, it is necessary to consider the loading and unloading of distribution pumps. Therefore the Project will plan the installation of a hoist crane.

b) Electrical Power Supply

Currently, 11kV electric power line is drawn to both the Inline Booster Pump Station and T/R

station to run the pumps. Since even after the replacement of the facilities by the Project, the electric power supply from the existing power line is possible, no new electric power line is planned to be installed. Therefore, the existing power line will be used to supply electric power in the Project.

## c) Lighting Fixtures

About lighting fixtures, the Project will adopt mercury lamp installed in the pump room, as is the case at existing pump stations, since the height of pump room is high. Fluorescent light will be adopted in the electrical room.

## d) Water Supply System

The project will adopt the water tap in front of the pump station to supply water to the pump station.

e) Drainage System

The Project will plan a drainage system to discharge the water from pump room. The catchment for drainage will be installed beside the pump station, and drainage will be connected to the existing ditch.

f) Ventilation System

The structure of the new pump station will employ natural ventilation, i.e. wind, through the installation of louvers on the upper sections of the walls.

5) Construction Material Plan

The Project will adopt the design concept as below with consideration of the climate of Faisalabad, natural features, construction situation, construction period, construction costs, maintenance system of FWASA, etc.

- The Project will aim to shorten the construction period and reduce construction costs by using local materials as much as possible.
- The Project will aim to reduce maintenance costs by selecting the materials which suit the climate and natural features, have excellent durability, and are weather resistant and are easily maintained.
- a) Roofing Material

Asbestos is used for the roof material in the existing pump station. However, because it has a serious impact on human health, the Project will adopt reinforced concrete for the roof. The roof of reinforced concrete is a common method in Pakistan, therefore there is no problem for the construction.

b) External Wall Material

The Project will adopt reinforced concrete for the structure of external walls, adopt brick finish

according to the existing pump station.

c) Internal Wall Material

The Project will adopt reinforced concrete for internal walls.

d) Fixtures

The Project will design windows on the external wall for lighting, ventilation of the pump station, and design windows on the internal wall between pump room and electrical room for confirming the situation of distribution pumps from the electrical room while the distribution pump is operated. The Project will adopt steel material for window frames, doors, etc. which are commonly available in Pakistan.

Member	Example of Similar Eacilities	Design for Project	Reason for Adoption
Roofing	Concrete Corrugated slate Metal sheet	Reinforced concrete	They have the advantage for heat insulation, noise reduction and weather proofing
External Wall	Concrete Brick masonry	Reinforced concrete	They have the advantage for quake resistance and durability.
Internal Wall	Concrete Brick masonry	Reinforced concrete	They have the advantage for quake resistance and durability.
Fixtures	Steel fixtures Wooden fixtures	Steel fixtures	They have the advantage for durability and weather resistance.

Table 2-12: Comparison Table of Methods and Materials

Table 2-13:	Summary	of Planned	Facilities
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Building	Item	External Finishing
Pump station	Roof Reinforced concrete slab	
	External Wall	Reinforced concrete, Brick finish
	Internal Wall	Reinforced concrete
	Doors and Windows	Steel door, steel sash

## 2-2-2-5 Consideration of the Specification of the Distribution Pump at T/R

(1) Facility Capacity of the Existing Chenab Distribution Pump

Chenab distribution pumps were designed as 7 large pumps and 3 small pumps in the construction period, however, now over 20 years has past, and the current facility capacity of Chenab distribution pumps, which is past the appropriate time to be updated, is as follows.

	Original Specifications	Current Conditions
Specifications and	Q=37.7m <sup>3</sup> /min, H=45m (Large Pump: 7)	Same as on the left
number of Pump	Q=27.2m <sup>3</sup> /min, H=45m (Small Pump: 3)	
Number of pumps	Large Pump: 7 (5+2 standby)	Large Pump: 4 (3+1 standby)
that can operate	Small Pump: 3 (2+1 standby)	Small Pump: 2 (1+1 standby)
		(3large pumps, 1small pump are breakdown)
Distribution	14,574 m <sup>3</sup> /hour	8,418 m <sup>3</sup> /hour
capability of pump		

Table 2-14: Facility Capacity of Chenab Distribution Pumps (Current conditions)

In the current situation, 4 distribution pumps out of 10 pumps are not operational due to breakdown. Therefore the current Chenab distribution capability, which is calculated by the distribution pumps that can be operated, is 8418 m<sup>3</sup>/hour. However, even the distribution pumps that are running, the life expectancy of normal machinery is about from 15 years to 20 years, so those pumps are past the period of time that can be used and have almost no residual value, which is calculated from the life expectancy.

#### (2) Setting of Design Distribution Flow based on the Distribution Time of Pump

Currently, operating time of existing Chenab and JBC distribution pump is six hours per day. The JBC distribution pump was designed as twelve hours of pump operation, but it is not operated for twelve hours per day because the significant cost of electricity is a management burden to FWASA. For payment of electricity charges, what was 319 million Rs in 2011, has become about 1.5 times, 470 million Rs, in 2012. In addition, for water charge, FWASA has applied for the price increase of water rates to the Punjab government. But it has not been approved, and currently the decision is on hold. Therefore, the operating balance (income minus expenditure) of FWASA has been negative in both fiscal years of 2011 and 2012. (Minus 76 million Rs in 2011 and minus 104 million Rs in 2012)

On the other hand, water supply quantity of all water facilities FWASA managed is only about 61% for the water demand of Faisalabad City, and Chenabu water facilities have about 55% of the water source. Although the improvement of business management is an important challenge for FWASA, it is also the important issues to ensure the water source for better service to the city and to distribute the water properly to the city without waste.

Therefore, in this project, the plan is determined to distribute whole of water from the Inline Booster Pump Station to the city, and this volume is set as design distribution flow. In addition, the operating time of the distribution pump is 6 hours per day at present, the rest of the time, water is distributed to the city by gravity flow from the T/R. As a result, including the eastern part of the city, water pressure is very low, it is a situation whereby adequate water pressure cannot be secured.

To improve this situation, as the water distribution plan in the future of this project, the operation time of Chenab distribution pump is set as twelve hours per day. This takes into consideration the replacement of the pump with the ability of distributing the design distribution flow by 12 hours.

However, in the current business management conditions of FWASA, which is a negative balance of

payments, it is difficult to distribute the water to the city by the pump operating 12 hours in a day immediately. For this reason, water facility is planned as a pump operation of 12 hours, however, in order to realize this pump operation, the water distribution plan is set taking into consideration increasing the pumping time and distribution volume by pump to the city in a step-by–step manner, along with the improvement of business management.

Distribution flow, which the time of pump distribution is expanded to 12 hours and which fully exploits the effective capacity of the T/R, is 17,000m<sup>3</sup>/hour. In this case, the daily maximum distribution amount is almost the same as the design intake flow, about 100% of design intake flow can be distributed to the city. Further, the lowest water level of T/R becomes 182.9m. This means about 88% of effective capacity of the T/R is utilized, and that it is possible to improve the current state (about 50%) significantly. However, as described above, it is difficult to distribute the whole amount of the design intake flow to the city by the pump immediately, therefore the Project will make the distribution plan from T/R as follows.

5	0
Design Intake Flow	204,780 m <sup>3</sup> /day
Design Distribution Flow	
Pump Distribution	13,230 m <sup>3</sup> /hour
Gravity flow	5,500 m <sup>3</sup> /hour
Pump Operation Time	6hours
Gravity Flow Time	15hours
Daily Maximum Distribution Amount	Total 161,880 m <sup>3</sup> /day
Pump Distribution	79,380 m <sup>3</sup> /hour
Gravity flow	82,500 m <sup>3</sup> /hour

Table 2-15: Setting of the Design Distribution flow

The height of the connection pipe is GL+184.30m at the top of the pipe. In the future, if the hourly distribution flow is increased, the water level of T/R will become lower than the height of connection pipe. Therefore, if water is pumped with the vent pipe in its existing location, air will be mixed into the connection pipe from the vent pipe, and the distribution pump will not be able to operate while the water of both T/R flow freely. Therefore, the new valve will be set in the vent pipe so as not to mix the water and the air from the vent pipe. In addition, if the air accumulates in the connecting pipe, it is possible to discharge air by opening the valve set in the vent pipe. In this way, the function of the vent pipe can be secured as before.

(3) Setting of the Specifications and the Number of Pumps

If the Project selects large capacity pumps, it can decrease the number and setting area of pumps, but the adjustment to the time change of water distribution is difficult. On the other hand, small capacity pumps can adjust to the time change of water distribution, but it requires the larger area and complicated operation due to increased pumps. In consideration of the above and the specifications of JBC pumps, the specifications and number of the distribution pumps of T/R are determined as shown in the following table. The total head of the pump will be 45m in accordance with the JBC, but since the current water distribution is provided by the water head of 20m, the distribution pumps are planned to be operated at 45m or less of the total head in order to reduce the energy consumption. Specifically, it is dealt with by replacing the head of the pump with an impeller head when the total head becomes 35m or less.

	Specifications	Remarks
Large Pump	Q=63.0m <sup>3</sup> /min: 4 units.	3+1 back up
Small Pump	Q=31.5m <sup>3</sup> /min: 2 units.	1+1 back up
Extended Pump	Large Pump:1	To be extended in the future
Design Distribution Flow	13,230 m <sup>3</sup> /hour	Large Pump:3, Small Pump:1

Table 2-16: Setting of Numbers and Specification of Chenab Distribution Pump

When the management of FWASA has been enhanced and the design distribution flow has been provided in the future, large pumps will be operated without a spare pump. In the Project, the spare pump space for extension is provided in order that the large spare pump can be installed by FWASA in the future.

(4) Transmission and distribution planning

In the future, the pump operation time will be set as 12 hours, however from the current situation of management of FWASA, to implement this pump operation immediately is difficult. Therefore, it is considered best to increase the distribution volume by pumps and distribution time in stages.

The following tables show 1) the distribution and transmission flow based on the current facility capacity (2013) and 2) the distribution and transmission flow based on the facility three years after completion of the Project (2020). In the current situation where the total amount of design intake flow of the Chenab and JBC does not meet the water demand of Faisalabad City; and moreover there is a limited number of working pumps and there is insufficient budget to cover electricity costs, it is judged that only about 73% of design intake flow can be used.

## Table 2-17: Transmission and Distribution Flow at the Present, 2013

	Hourly Transmission Flow (m <sup>3</sup> /h)	Operation time (h/d)	Daily Transmission Volume (m <sup>3</sup> /d)
Chenab	8,076 20		161,520
JBC (from operation record)			51,988
Total			213,508

Operation	Condition	of Transmission	h
Operation	COndition	0111011311133101	

$\cap$	noration	Condition	of Distribution	
U		CONTINUO		

	Hourly Distr	ibution Flow	Operation time	Daily Distribution Volume	
	(m <sup>3</sup> /h)		Operation time	(m <sup>3</sup> /d)	
	Dist. Pump	Gravity Flow	(n/d)	Dist. Pump	Gravity Flow
Chenab	8,418		6	50,508	
oriendo		5,500	18		99,000
JBC	9,480		6	56,880	
Total	17,898	5,500		107,388	99,000
Daily Volume (Total)				206,388	
Daily Volume (Chenab Total)				149,508	
Daily Volume (JBC Total)				56,880	

In order to improve the current situation and to use the water of water sources effectively, the water distribution plan three years after completion of the Project (2020) is set. As the water distribution plan, based on the six hour operation of the current state, the amount of water distribution per hour of the Chenab distribution pump will increase to 4,812 m<sup>3</sup>/hour (from 8,418m<sup>3</sup>/hour to 13,230m<sup>3</sup>/hour), the amount of the hourly water distribution from the T/R will increase by 27%. And, in order to improve the situation of JBC distribution pump, which was planned in 12 hours of operation per day, but is running only six hours, the operating hours of JBC distribution pump will be extended from six hours to nine hours per day with the aim of increasing the total amount of water supply per day (see the table below).

 Table 2-18: Transmission and Distribution Flow Three Years after Project Completion, 2020

 Operation Condition of Transmission

	Hourly Transmission Flow (m <sup>3</sup> /h)	Operation time (h/d)	Daily Transmission Volume (m <sup>3</sup> /d)
Chenab	10,239	20	204,780
JBC (from operation record)			70,000
Total			274,780

Operat	ion Con	dition of	Distrib	ution	
		11.0	under Die	مرج المرجا المل	Г

	Hourly Distr	ibution Flow	Operation time	Daily Distribution Volume	
	(m <sup>3</sup> /h)		(h/d)	(m <sup>3</sup> /d)	
	Dist. Pump	Gravity Flow	(nrd)	Dist. Pump	Gravity Flow
Chenab	13,230		6	79,380	
Offende		5,500	15		82,500
JBC	9,480		9	85,320	
Total	22,710	5,500		164,700	82,500
Daily Volume (Total)				247,200	
Daily Volume (Chenab Total)				161,880	
Daily Volume (JBC Total)				85,320	

In the future, the repair of water leaks in pipelines, facility improvements such as installation of water meters, financial improvement by the loan from the World Bank and the subsidy from the Punjab government, and revision of water charges and improvement of the fee collection rate will be gradually conducted in order to improve the facility management and increase the operating time of facilities. Finally, the total amount of the design intake flow will be distributed to Faisalabad City.

#### (5) Consideration for Setting of Generator

As with the generator in the Inline Booster Pump Station, generators to operate for the distribution pumps are also requested in the T/R pump station. However, the T/R pump station is continuously supplied with power from an independent electric line from the substation so that the scheduled blackouts have not been planned. Moreover, in the T/R pump station, some limited volume of water is supplied to the city by gravity flow when the pumps are stopped. From the above, there is no need to install generators in the T/R pump station and the generators are excluded from the component of the Project.

### 2-2-2-6 Leakage Control of T/R Pump Station

(1) The Necessity of Leakage Control

At present, the daily water leakage from the T/R tank of the Chenab is recorded at least about 600  $\sim$  900 m3.

This leakage has occurred in the joints of the concrete wall, and the leakage is caused by deterioration and damage of joints and waterproof lining of the tank. Water leakage of 600 to 900 m3/day in the amount is less from the viewpoint of the design distribution flow, but the amount of water leakage from the T/R tank corresponds to about 5,300 to 8,000 people on the basis of the 112L/person/day, and loss of electricity equivalent toabout 23MWh $\sim$ 35MWh per year.

The water leakage has occurred in the pipelines of Faisalabad City rather than from the T/R so that the repair of T/R will not have a dramatic effect on the overall improvement.

However, in spite of the replacement of existing pumps, the construction of the pump station and the construction of facilities in order to take full advantage of the effective capacity of the Chenab T/R, to leave the water leakage is to reduce development impact of the Project, which is intended to reduce the power consumption.

The reduction of water leakage of the T/R contributes to effective use of water resources and the reduction of power consumption. Therefore, this Project includes repair of the existing T/R to reduce water leakage.

(2) The method of waterproofing for leakage of water

By the visual inspection of leakage of water, it is found that the main leakage of T/R is from concrete joints, the Project will achieve the reduction of the total amount of leakage of water by conducting the

repair of concrete joints. The T/R is separated into two rooms by a partition, and the repair of leakage of water will be conducted one by one. Concrete joints and waterproof coating will be removed after emptying one of the T/R (the other continues to supply water), and then, concrete surface and joint portion are cleaned. After that, target parts will be kept dry and the joints filled up with silicon, etc., and a waterproofing coat will be painted. After finishing repair of one of the rooms, the repair of the other room of T/R will be carried out similarly. During the period of repair, the amount of distribution water in the T/R will be limited because of drying one of the T/R. Therefore, the schedule of repair of T/R will coincide with that of other work that also necessitates stopping of the water supply so that this period of stoppage is minimized.

#### 2-2-2-7 Relevance of French government Project and distribution plan from the T/R

(1) Outline of French government Project

Currently, the French government is providing financing to support FWASA to improve water facilities of Faisalabad City. In this French project, in addition to construction of the new surface water treatment plant, the expansion of the well, the plan to set the new water distribution mains of 1000mm are also included. This distribution mains is connected to the pipe from JBC pump station, the water is also distributed to the city as a separate line. For this reason, T-shaped member (1500mm × 1200mm) was installed at the time of the JBC pump station was constructed, by connecting the French distribution mains to the branch pipe, the water of existing distribution main flows to the west side of the city, the water of distribution mains by the French project flows to the east side of the city, it is planned to supply water to the east side that were not previously able to have enough water and water pressure. While two systems of water facilities are running, because it is not possible to supply the design distribution flow to the city only using the existing 1600mm distribution main, by using a double distribution mains it will be possible to improve the water distribution situation in Faisalabad City.

According to the confirmation in this Study, the schedule of the construction of distribution mains of 1000mm is delayed, the construction will start in Feburualy 2015.

The outline of the French project is as below.

- Surface Water Treatment Plant (10MGD): Jhal Khanuana
- New Arterial Main (1,000mm, L=7.2km): Connected to JBC pipeline
- Well Field (10 units, 5MGD): Rakh Branch Canal
- Transmission Main (300mm-600mm, L=13km): Rakh Branch Canal
- Replacement of Pumps (12 units.)
- Leak Detection and Repair studies for improvement in network efficiency (L=1,056km)
- Bulk Flow Meter with Data Loggers (51 units.)
- Commercial/ Domestic Meters (1"-3", 585 units.)
- Domestic Meters (1/2", 20,000 units.)

About double distribution mains by the French project, it is not possible to distribute the water from the JBC pump station to the city by only 1000mm of new arterial main, it is necessary to distribute water from both of the water distribution mains. Therefore, in this Project, the pipe connected from the JBC pump station to the Chenab distribution main is continued to be used in the future.

(2) Hydraulic situation of distribution pipes in the city

When the pump head of the distribution pump of T/R is assumed to be 45m, the maximum static head of the distribution pipes in the city is calculated as 48.4m.

It is also about 45m near the outlet of the T/R as dynamic head, but maximum dynamic head in the city is about 36m, most of the city is less than 20m. Ductile cast iron pipe and asbestos-cement pipe (ACP) are mainly used in the city, about 45m - 55m is expected in general as water hammer pressure associated with the operation and stopping of the distribution pump. For cast iron pipe, even in the water pressure of about 100m, which is sum of water hammer pressure and static water head, almost no impact to cause the rupture of the pipe. But about asbestos pipe, in view of the fact that leakage is occurring at this time and the pipe is aging, if the water pressure is raised in the city under the current conditions, there is a greater risk of leakage and damaging pipes than the currently level. Therefore, at this time, it is necessary to keep the discharge pressure of about 20m from the T/R, and along with the replacement of the ACP in the city, it is necessary to raise the pressure gradually to eliminate the negative pressure in the water pipe in the city.

## 2-2-3 Outline Design Drawing

The following pages present the outline design drawings of the facilities by the Project.

No.	Drawing Title
1	Plan of Pipe Works for Inline Booster Pump Station
2	Single-line Diagram for Inline Booster Pump Station
3	Control Panels for Inline Booster Pump Station
4	Plan of Terminal Reservoir
5	Elevation of Terminal Reservoir Pump Station
6	Plan for Basement Floor of Terminal Reservoir Pump Station
7	Plan for Ground Floor of Terminal Reservoir Pump Station
8	Section Details A-A of Terminal Reservoir Pump Station
9	Section Details B-B of Terminal Reservoir Pump Station
10	Plan of Pipe Works for Terminal Reservoir Pump Station
11	Single-line Diagram for Terminal Reservoir Pump Station
12	Control Panels for Terminal Reservoir Pump Station



Figure 2-5: Plan of pipe works for Inline Booster Pump Station



Figure 2-6: Single-line Diagram for Inline Booster Pump Station







Figure 2-7: Control Panels for Inline Booster Pump Station



Figure 2-8: Plan of Terminal Reservoir





ELEVATION - 1



ELEVATION - 2



Figure 2-10: Plan for Basement Floor of Terminal Reservoir Pump Station



Figure 2-11: Plan for Ground Floor of Terminal Reservoir Pump Station



Figure 2-12: Section Details A-A of Terminal Reservoir Pump Station



Figure 2-13: Section Details B-B of Terminal Reservoir Pump Station



Figure 2-14: Plan of pipe works for Terminal Reservoir Pump Station



Figure 2-15: Single-line Diagram for Terminal Reservoir Pump Station

3.3kV INCOMING PANEL , MAIN PUMP PANEL AUX. TRANSFORMER PANEL , LOW VOLTAGE PANEL





Figure 2-16: Control Panels for Terminal Reservoir Pump Station



<u>SIDE VIEW</u>

## 2-2-4 Implementation Plan

## 2-2-4-1 Implementation Policy

## (1) Basic concept

The Project shall be implemented in accordance with the scheme of the Japanese Grant Aid. The Grant Aid shall be used for the procurement of the products and services for the Project which is agreed upon in the Exchange of Notes (hereinafter referred to as the "E/N") between the Government of Japan and the Government of Pakistan.

Following the E/N, the Grant Agreement (hereinafter referred to as the "G/A") of the Project shall be concluded between the Government of Pakistan and JICA. The application of Grant Aid to a particular project funded by the Grant will be stipulated in the G/A.

The rights and obligations of the Government of Pakistan and the providers of the products and services for the Project are governed by the tender documents, and by the contracts signed by the Government of Pakistan with the providers of the products and services.

The roles of the concerned parties, including the Government of Japan, JICA, consultants and contractors in relation to the implementation of the Project under the Grant Aid are understood as follows.

- 1) The Government of Japan decides the Grant to be extended to the Government of Pakistan in accordance with the relevant laws and regulations of Japan.
- 2) JICA extends the Grant to the Government of Pakistan in accordance with the relevant laws and regulations of Japan and within the scope of the E/N and pays serious attention to ensure the accountability on proper and effective use of the Grant for the Project.
- 3) The Government of Pakistan is the recipient of the Grant, and is responsible for the execution of the Project. As the client or the buyer, the Government of Pakistan conducts the procurement of the products and services necessary for the Project implementation using the Grant provided by JICA.
- 4) The Consultant is the firm who renders services to the Government of Pakistan with regard to designing, cost estimating, tendering and supervising the procurement and the construction works for the Project in accordance with the contract with FWASA.
- 5) The Contractor is the firm who provides the products and services necessary for the Project in accordance with the contract with the Government of Pakistan.


Figure 2-17: The Roles of the Concerned Parties

The major components of the Project are shown in the following table.

Item	Facilities	Specification
Work in the Inline Booster	Replacement of inline booster pumps and incidental	48.8m <sup>3</sup> /min: 4 units.
Pump Station	facilities: 6 units.	24.4m <sup>3</sup> /min: 2 units.
	Pipeline work	Dia. 500 to 1600mm
Work in T/R Pump Station	Replacement of T/R pumps and incidental facilities :6	63.0m <sup>3</sup> /min: 4units.
	units.	31.5m <sup>3</sup> /min: 2units.
	Pipeline work	Dia. 350 to 1600mm
	Building work of T/R pump station	Reinforced Concrete,
		Total floor area: 870.81 m <sup>2</sup>
	Repair of water leakage of T/R tank	Repair of concrete joints: 102m
Consultancy work	Detail design	Civil and building work
	Supervision	Civil and building work
	Soft component	Training of operation

		-		
Tahla 2-20· 7	The Maior	Componente	of the	Project
	ine major	Componenta		1 10,000

The construction period is planned as 22 months, including a preparation period in Japan for one month. The critical path is the period required to manufacture and install the pump and ancillary equipment.

(2) Implementing Organization of the Pakistani Side

The executing agency of the Pakistani Side of the Project is HUD&PHED and the implementing agency is FWASA. For the smooth progress of the Project, the Pakistan Side shall contact and consult closely among the Consultant and Contractor. Accordingly, the Pakistani Side shall need to assign responsible persons in charge of the Project. Responsible persons shall understand the roles and duties of the Project and to implement Pakistani obligations such as land clearing.

#### (3) Consultant

The Consultant of the Project shall conclude a contract regarding services for detail design study, tendering and construction/procurement supervising works with FWASA. In accordance with Japan's Grant Aid scheme, the Consultant shall form a project team in order to design and supervise the correct progress of the construction works, following the prescriptions made at the point of outline design. The service contents of each step shall be as follows.

1) Services before the tender

The Consultant will review the Study results produced by the outline design of the Project, and carry out the detail design and cost estimation with a consistent level of service.

2) Services in the tender stage

The Consultant will execute the following services in the tender stage of the Project;

- Compiling service of the tender documents
- Supporting service of the tender
- Supporting for clarification and amendment of the tender document
- Evaluation and reporting of technical proposal
- Evaluation and reporting of financial proposal and supporting of the contract negotiation
- 3) Services in the stages of construction supervising works

The Consultant will dispatch Japanese engineers to Pakistan to ensure the construction qualities of the Project. Therefore, the Consultant will place a resident engineer in Pakistan for coordinating work among concerned persons on the Pakistani Side and the contractor's side, and also for supervising works of the implementation stage of the Project.

The consultant will supervise the contractor in order to execute the Project properly and smoothly. The objective of the supervision will be to supervise work in conformity with specifications and drawings and to control the quality, specifications and progress in conformity with the contract.

In addition, the consultant will supervise the contractor's documentation such as quality control, site photographs and progress record. The consultant will inspect the materials and equipment to be produced, manufactured and procured in order to prevent troubles after delivering the materials and equipment.

#### (4) Contractors

According to Japan's Grant Aid scheme, Japanese contractors who are selected through a tendering procedure will implement the construction works and equipment procurement for the Project.

Even after the handover of the facilities, it is still necessary to contact the contractor for one year warranty period for repairs and maintenance.

1) Necessity of Engineer Dispatch

The construction works in the Project include material and equipment procurement, transportation and construction, which require coordination between the parties concerned. Also, it is necessary to dispatch a chief engineer from Japan to manage and supervise construction, including the schedule, quality, and safety. This person will also arrange and manage the schedule of sub-contractors, in order to make the most effective use of them under the Project.

2) Policy to Ensure the Construction Works

The Project policy to ensure the construction work goes smoothly in a timely manner and that costs are kept to a minimum is to use local materials and construction methods whenever possible. In line with this policy, it is recommended that the Japanese contractor will use sub-contractors as there are companies capable of conducting the type of large-scale construction work necessary in Faisalabad, Lahore and Islamabad.

#### 2-2-4-2 Implementation Conditions

#### (1) Construction Condition

It is possible to procure general construction materials, equipment and machines around the Project site. However, there are no concrete production plants in Faisalabad so it is necessary to procure the concrete by job mixed. Besides, the Project will need to carry out advance preparations carefully to prevent the delay of procurements because the Project will use much of cement, aggregate and reinforcing bars.

To avoid delays to these material procurements, it is required to prepare systems for their orders in the early stage of the commencement of construction works. Thus, on the consideration of the production terms of materials to be used for the Project, it will be important to urge the contractor to start their advance preparations for the procurement of the materials and equipment.

#### (2) Safety Measures

At construction sites, it is necessary to consider safety measures for construction workers. The construction works will involve work in high places such as roofing, so there is a possibility of falling accidents. Consequently, the Project will need to prepare concrete measures to ensure worker safety, such as the work will be prohibited downstairs below where work is being conducted directly upstairs to prevent accidents caused by falling objects, installation of a safe handrail and a safety net, and the wearing of helmets, safety shoes and safety belts.

The Project places the security guard in order to prevent the accident with the third person at the entrance of the Inline Booster Pump Station and T/R by the construction vehicle. In addition, the staff of FWASA is operating the pumps near the construction site, the Project manages so that the staff of FWASA can not approach the construction site.

## 2-2-4-3 Demarcation of Works

- (1) Demarcation of Works for Construction
- 1) Preparation of the Project Site

The Project site is possessed by FWASA so that there is no disadvantage for utilization. However, since there are trees around and within the site, the Pakistani Side will need to remove them.

- 2) Infrastructure
  - a) Electric Power

There are existing electric distribution facilities on the site, which will be used for the project continuously. However, incoming panel, which Faisalabad Electric Supply Company (hereinafter, FESCO) manages, is installed in the existing pump station. FESCO will need to relocate this incoming panel to the new pump station, therefore it is assumed that the Pakistan side will pay the necessary expenses.

In addition, installation of power distribution facilities and wiring work except for that which FESCO manages will be included as scope of works.

b) Water Supply

The Project will provide the water supply system in the new pump station. The pipeline between the main pipe to the water tap in front of the new pump station is included in the scope of the work.

c) Drainage

The Project will provide the drainage system from the inside of the new pump station at the T/R Pump Station to existing drainage in order to pump out discharged water from the new pump station.

- 3) Application for Permission
  - a) Construction Permission

The Pakistan side shall be responsible for applying for and obtaining the construction permits. The Japan side will be responsible for preparing drawings only.

b) PC-1

In the implementation of the Project, it is necessary to obtain the approval of the PC-1 by CDWP (Central Development Working Party). The Pakistan side shall be responsible for obtaining the PC-1.

### (2) Demarcation of Works for the Project

Demarcation of works is shown as below.

# Table 2-21: Demarcation of Responsibilities of Works to Be Conducted by the Japanese and Pakistani Sides

Works	Japan	Pakistan
1. Securing of the Project site, Removal of the existing facilities and trees at the Project		0
site, Leveling of the site		0
2. Construction		
(1) Inline Booster Pump Station (booster pump)	0	
(2) Terminal Reservoir (Pump station)	0	
(3) Terminal Reservoir (Distribution pump)	0	
(4) Terminal Reservoir (Pipes)	0	
(5) Terminal Reservoir (Repair of water leakage of tank)	0	
3. Infrastructure		
(1) Electric power		
1) Installation of the transformer at the Project site, site wiring, lighting/outlets	0	
(2) Water Supply		
1) Water supply facility (Pump Stations)	0	
(3) Drainage		
1) Drain facility (Pump Stations)	0	
(4) Furniture and equipment		0
4. Transportation, Customs clearance		
(1) Marine transportation of the Products	0	
(2) Tax exemption and customs clearance of the products at the port of disembarkation		0
(3) Internal transportation from the port of disembarkation to the Project site	0	
5. Exemption of customs duties, internal taxes and other fiscal levies		0
6. To accord Japanese nationals for their entry into Pakistan and stay therein		0
7. Proper and effective use of facilities and equipment of the Project		0
8. Other necessary procedures and expenses for the project		0
9. Banking Arrangement, Authorization to pay		
(1) Advising commission of A/P		0
(2) Payment commission		0
10. Procedures concerning environmental and social consideration		0

# 2-2-4-4 Construction Supervision

#### (1) Basic Concept

In order to complete the whole schedule of the Project, it is important to confirm and supervise the progress of each construction work. Moreover, it is also important to always confirm the working progress to be borne by the Pakistani side because such tasks are vital to the smooth progress of the whole schedule. For example, if the hand-over of the site to the contractor delayed, the whole schedule is delayed. So it is necessary to carry out the ground leveling quickly.

The Project will include various types of works such as material and equipment procurement work, temporary work, foundation work, structural work, mechanical work, finishing work and so on. The consultant will execute their supervising work in cooperation with the implementing organization of the Project.

- (2) Construction Supervision Plan
- 1) Dispatch of the Consultant

As regards the consultant supervision of the Project, the consultant will assign a resident supervisor who has experienced construction supervising works abroad. The consultant will also dispatch the engineer properly in accordance with the type of works as described in the following table.

Consultant	Working Contents	Timing (Total Term)							
Project Manager	Supervision of the whole project, attendance at the commencement,	imencement, When necessary							
	final completion of the Project, etc.								
Resident Supervisor	Supervision of the whole construction work, negotiation and	During The Project							
	consultation with organizations concerned with the Project,	implementation							
	confirmation of design / shop drawings and specifications.								
Mechanical and	Mechanical and Supervision of pump systems								
Electrical Engineer		(2.0 M/M)							
(for pump equipment)									
Architectural Engineer	Supervision of building works	When necessary							
		(1.0 M/M)							
Mechanical and	Supervision of equipment and electrical system of building works	When necessary							
Electrical Engineer		(1.0 M/M)							
(for building works)									
Completion inspector	Completion inspector Final inspection after the completion								
		(0.23 M/M)							

Table 2-22: Dispatching of the Consultant for Construction Works

# 2) Construction Management by the Contractor

In order to control the quality of the works within the work period, it is desirable for the work to be managed by a Japanese engineer. Therefore, an experienced Japanese engineer will be stationed at the construction site for the whole period of construction. Moreover, particular engineers such as mechanical and electrical engineer will also be dispatched according to the progress of the Project. Other necessary engineers will be hired locally. During the construction period, the Japanese engineers are expected to transfer their construction skills and technology to Pakistani engineers. Considering the scale of the construction in this Project, at least the engineers listed below will be necessary.

Contractor	Working Contents	Timing (Total Term)				
Project Manager	Manage the whole work, obtain approval, manage	During the Project				
(Site Representative)	procurement of material, equipment and accessories,	implementation				
	manage workers, and site works	(21.0 M/M)				
Architectural Engineer	Supervision of building works	During the work				
		(13.0 M/M)				
Mechanical and Electrical	Supervision of equipment and electrical system works	When necessary				
Engineer (building work)		(1.0 M/M)				
Civil engineer 1	Supervision of civil works of Inline Booster Station	During the work				
		(4.8 M/M)				
Civil engineer 2	Supervision of civil works of T/R station	During the work				
		(10.9 M/M)				
Mechanical Engineer	Supervision of pump systems	During the work				
		(7.0 M/M)				
Electrical Engineer	Supervision of pump systems	During the work				
		(7.0 M/M)				
Administrator	Manage procurement of material, equipment and	During the Project				
	accessories, workers, and do the accounting	implementation				
		(21.0 M/M)				

Table 2-23 <sup>.</sup>	Personnel	Dispatching	by the	Contractor
	1 013011101	Dispatoring	by the	Contractor

#### 3) Schedule Control

The consultant will compare the implementation progress of the construction to be planned at the time of their contracts with those to be carried out actually in order for the observance of deadlines prescribed in the contracts signed by the contractors of the Project. The consultant will encourage the contractor to keep strictly to the schedule and request the contractor to submit proposed measures and implement these against the issues when schedule delays are predicted, in order that the construction and equipment delivery can be completed on time. The items to be compared with the schedule are as follows.

- Overall progress (progress of the material and equipment procurement, and construction work)
- Material and equipment delivery (material, equipment and accessories for construction)
- Temporary work and provision of construction machines (accordingly)
- The number of engineers, technicians, general workers, etc.

#### 4) Quality Control and Inspection of Actual Shape

The consultant will supervise whether or not the facilities to be constructed by the Project and its construction materials meet the required quality, specifications and actual dimensions as per the contract documents. If the consultant finds any issues with the quality or faults in the contractor's workmanship in the process of their confirming and inspecting work, the consultant will require the

contractors to correct, change and modify them immediately. The items to be controlled are as follows.

- · Examination of shop drawings and specifications of construction work
- · Examination of shop drawings and specifications of materials and equipment
- Attendance to the production place of the materials and equipment or examination of the inspection results
- Examination of plans and methods of equipment installation
- Inspection and confirmation of performance and actual dimensions

#### 5) Safety Control

By discussing and cooperating with the responsible persons of the contractors for safety control, the consultant will supervise the contractors to prevent industrial accidents, injuries and accidents to third persons at the Project site during the implementation term. Important points for the safety control at the site will be as follows.

- Formulation of safety control regulations and selection of responsible persons for safety controls
- · Avoidance of accidents by the regular inspection of construction machines
- Formulation of the operational routes of vehicles for construction and transporting machines and thoroughness in their safe driving
- · Setting of facilities and equipment for safety controls and their regular checks
- · Welfare measures for construction workers and encouragement to take days off

#### 2-2-4-5 Quality Control Plan

It is feasible to procure the materials, equipment and machines for the construction domestically. However, as Pakistan has imported many goods from neighboring countries, the quality of them varies. Therefore, the specifications and performance of the materials, equipment and machines used for this Project require careful examinations before they are approved. For the quality control of reinforcement bars, concrete, mortar, etc., which will be processed at the construction site, must follow the rules specified in the construction method to be specified during implementation of the Project.

When concrete temperatures are high, there is a possibility of increased risk of slump declines and cracks by rapid vaporization of surface moisture on the concrete. Accordingly, the Project will need to reduce the temperature of the concrete by placing concrete in short time, adjusting the placing volume of concrete and keeping the concrete wet condition by watering during curing works.

To examine concrete quality, the Project will carry out the compressive strength test of concrete at public institutions in Pakistan. In terms of reinforcement bars, the Project will carry out their quality controls by confirming their inspection certificates. As for the tensile strength test of reinforcing bars, the Project will carry out the test at public institutions.

To ensure the quality of the construction works, the Project will need the following quality controls in terms of the major works of the construction.

Works	Item of Quality Control	Method of Quality Control
Temporary work	Locations of the permanent and temporary facilities, etc.	Staking out inspection, confirmation of benchmark
Earth work	Excavation	Confirmation of bearing stratum
Deinfersoment her work	Material	Tensile strength test, confirmation of inspection certificate
Reinforcement bar work	Arrangement	Confirmation of diameter, numbers, binding, etc.
	Fresh concrete	Confirmation of slump, air content, temperature, etc.
Concrete work	Concrete placement	Confirmation of placing situation
Concrete work	Formwork	Visual inspection of forming
	Concrete strength	Confirmation of compressive strength test
Roofing work	Water leakage	Visual inspection, sprinkling inspection
Plastering work	Flatness, unevenness	Visual inspection of finishing
Door and window work	Installation	Visual inspection
Painting work	Surface finishing, color	Visual inspection
Electric power system work	Performance, operation	Confirmation of factory inspection result, operation test
Piping works	Bending, twist, support pitch	Visual inspection
Wiring work	Damage	Measurement of resistance value, visual inspection
Lighting work Performance, operation		Visual inspection

Table 2-24: Items of Qualit	y Controls and Methods of Maj	or Works

#### 2-2-4-6 Procurement Plan

#### (1) Procurement Method

Most of the materials, equipment and construction machinery needed in the Project are possible to be procured in Pakistan. However, pump facilities at the Inline Booster Pump Station and the T/R Pump station will be procured from Japan because these are impossible to procure in Pakistan and the quality of such products should be kept high.

Main materials such as cement, aggregates, reinforcement bars and forms will be procured in Pakistan. The decision on which cement is to be adopted will be based on the results of concrete quality tests of the applicable materials procured in Faisalabad. Faisalabad is an industrial city and materials distribution is always stable, therefore there should be no particular problems regarding the procurement of materials.

There is a large quarry where aggregates can be obtained about 30 km from Faisalabad down the stream of Chiniot Bridge on the Chenab River. In Faisalabad and near Chenab River there are companies that can supply aggregate of sufficient quantity and quality to satisfy the specifications of the Project. The contractor will select and procure aggregates in conformity with the specifications of the Project.

The raw materials for reinforcing steel bars are imported and processed by domestic manufacturers to meet the demand. In this project, the domestic products will be used. Forms for concrete structure will be easy to procure in Pakistan. They can be fabricated by processing the materials that are domestically

available.

As a construction situation of Pakistan, since large scale civil engineering and construction projects have been implemented in recent years, it is possible to procure construction machinery in Pakistan. In addition, Japanese manufacturers assemble vehicles and trucks locally, therefore there is no particular problem for the procurement. The Japanese contractor is expected to procure or lease these machines, such as backhoe, crane and batcher plant.

Items	Dekisten	lonon	Third	Remarks
	Pakistan	Japan	country	
Cement	0			
Fine aggregate	0			
Coarse aggregate	0			
Steel products	0			
Formwork	0			
Wood materials	0			
Pipes	0		0	
Valves	0		0	
Pumps		0		
Control panel		0		

Table 2-25: Country of Origin

#### (2) Transport Plan

As a transportation method for procurement of materials and equipment from Japan, there are shipping service and aviation service. However, the transportation of materials and equipment from Japan normally uses shipping service unless there are special circumstances. Therefore, in this Project, since the materials and equipment procurement from Japan are large and mainly they are pump equipments, transport plan will be shipping service.

The procurement time of materials and equipments for pump facilities will be in the last half of the Project. It will take about eight weeks by the shipping service, from departure of Japan to arrive in Pakistan. The customs clearance is carried out in Karachi which is the port of discharge.

Customs clearance, disembarkation and inland transportation of materials and equipment procurement from Karachi to Faisalabad will take around four weeks because of the large quantity of materials and equipment and equipment such as the pumps are large and pump control panels are precision instruments, therefore there is a need to pay attention to the transport. The distance from Karachi to Faisalabad is around 1200km. Therefore, it will be expected to take totally three months for the transportation from Japan to the sites.

#### 2-2-4-7 Operational Guidance Plan

The Project involves the replacement of existing water facilities at the Inline Booster Pump Station

and T/R Pump Station, therefore the main water supply system of the Project is same as the existing water supply system. The staff of FWASA is operating the existing facilities so far, it is considered that the current skill level of FWASA can operate the facilities after the new facilities are installed. However, in the Project, it is planned to increase the volume of water for distribution from the T/R Pump Station. Therefore it is necessary to control the distribution flow rate and number of operating pumps in accordance with the distribution amount. For this reason, when commissioning by the contractor, operational guidance for the control of water distribution flow rate should be given due to a change in the number of operating units of the pump.

Further, in this project, it is expected to install impellers with low pump heads in addition to normal impellers, therefore it will be necessary to dismantle the pump and replace the impeller. FWASA has been in charge of repairing the pump so far and has a repair technology and knowledge, including the ability to dismantle pumps. Replacement of the impeller is possible with current technology of FWASA, however, because it does not have any actual experience in this it will be undertaken under the guidance of the contractor.

#### 2-2-4-8 Soft Component (Technical Assistance) Plan

(1) Background of Soft Component

This Project aims to reduce the cost of distribution of water through stabilizing operation of the facility and promoting the efficiency of energy consumption by the replacement of the pumps at the Inline Booster Pump Station and T/R where originated from Chenab well field in Chiniot City. The scope of the Project consists of the replacement of the pump facilities at Chenab Inline Booster Pump Station, replacement of the pump facilities and corresponding construction of the pump station at T/R and repair of water leakage at T/R.

1) Current Situation

Chenab systems targeted in the Project pump up the water from Chenab well field to T/R through the Inline Booster Pump Station, and then distribute the water to the city from T/R. In addition to the Chenab water facilities, T/R and pump facilities of JBC water facilities are located in the same compound of T/R. In the future, water originated from both Chenab system and JBC system plans to be distributed to the city from the T/R Pump Station in two distribution pipes upon completion of the ongoing project financed by the government of France in contrast to the current single distribution pipe.

Now some of the pumps installed at Inline Booster Pump Station and T/R Pump Station are suspended due to breakdown as they were installed more than 20 years ago and are overdue for replacement. The booster pumps at the Inline Booster Pump Station do not meet the needs for entire available water intake in Chenab well field due to a decrease in pump efficiency and stabilization of supply is deteriorated at T/R Pump Station due to the high occurrence frequency of breakdown of distribution pumps. Some of the pumps are no longer operational due to cavitation caused by the

improper location of distribution pumps at the T/R Pump Station, and therefore do not meet the demand for water supply at peak times of the day.

2) Necessity of Soft Component

The Project will aim to improve the operation skill of the counterparts in reducing the water pressure of the being distributed from the T/R pumping station in the soft component of the Project.

It is essential to assist in launching the facility smoothly through the training of parallel operation of Chenab and JBC water supply facilities and dual systematization of main distributing pipe and control of pressure of water distribution as well as the training of the said initial operation in order to distribute water to the city with proper water pressure.

The Project will enable the entire available water intake from Chenab source system to be distributed to the city by distribution pump and accordingly water supply environment would be improved. In this case, the amount of pump distribution and number of operating pumps per hour are different from the current operating situation, so that the trial and initial operation after installation will be trained to FWASA members in order to operate and maintain pumps based on the amount of water distribution and number of operating pumps per hour. Although water is distributed to the city after depressurizing it up to around 20m against the pump head of 45m in order to reduce water leakage when distributing pump water, it is necessary to appropriately change control of depressurization by valves because the volume of water distribution in the city increases owing to the Project. The current volume of water which is distributed through only Chenab distribution pipes would be divided into the current distribution pipe and the other pipe financed by the government of France. For the reasons above, the current volume of water flowing through distributing pipes would be changed, the control of pressure is necessary based on volume of water distribution. Even though currently the respective pumps at the T/R Pump Station of Chenab and JBC are operating, technical level is not sufficient enough in order to practice parallel operation with pressure of control of water distribution and control pressures of water distribution owing to converting to the dual system.

(2) Purpose of Soft Component

The purpose of the soft component of the Project is to give assistance in controlling water pressure in accordance with the volume of water distribution. As a result of the counterparts of gaining such skills it would enable the implementing agency to distribute water to Faisalabad city in a stable manner after completion of the Project.

#### (3) Outputs of Soft Component

The outcome of soft component is that that implementing agency personnel acquire the skills necessary to manage the water pumping pressure (by reducing it as appropriate) from the T/R pumping station.

#### (4) Means of Output Verification

Indicators and means to verify the said achievement of outcomes are as follows.

Outputs	Objectively verifiable indicator	Means of verification
Reduction of water	To understand the relationship between volume	Commentantian tast
pressure leaving the T/R	of water distribution and water pressure	Comprehension test
pumping station is	To operate valves for depressurizing in line with	Measure for volume of water distribution
conducted appropriately	the volume of water distribution	and water pressure

Table 2-26: Means of Output Verification

- (5) Activity of Soft Component (Input Plan)
- 1) Besic concept

The person in charge of soft components will implement the soft component to control the water pressure in conjunction with the operation of the JBC distribution pump, and confirm the achievement of outcomes about soft components and submit the completion report of the soft component to Pakistan responsible authorities, implementing agencies and authorities of Japan.

2) Summary

The practical training of valve operation and regulation of the service pressure in line with the volume of water distribution will be implemented through on-the-job training as part of the soft component. The following table shows the planned activities to achieve the outputs of the soft component.

Output: Reduction	on of water pressure leaving	ng the T/R pumping station is conducted appropriately								
Implementation y	year: the final year of the P									
Required skill an Japanese side ex	d field of expertise of the xpert(s)	Water distribution planning, experience of management on water pressure								
Technical level re	equired of the Pakistan	The counterparts will need to have experience of valve operation and								
side counterparts	s to participate in the soft	knowledge of the relationship between opening/closing of valves and water								
component		pressure.								
Participants		Operation department (valve operation planning(1 person), valve operation								
		person))								
Method of impler	mentation	On-the-job training								
Activities	Preparation of	On-the-job training Drawing up plans of soft components								
	documents	Explaining soft components to FWASA								
		Verifying existing facilities, review of the operating manual of the JBC-based     distribution numbers								
		Drawing up plans and approved by EWASA								
		• Drawing up plans and approved by FWASA								
		Lecture on theory for water distribution plans, management of water process								
	Introduction	Evolute on theory for water distribution plans, management of water pressure								
		• Explaining facility outline, facility capacity								
		(Chonab IBC)								
		• Explaining water volume and water pressure on water distribution plan								
		• Explaining way to reduce service pressure according to water volume								
		Clarifying roles and areas of responsibility of person in charge								
		Conducting questionnaires and comprehension tests								
Planning and drawing up way of water pressure management		Planning of valve operation instructions (valve operation planning)								
		Confirming or valve operation instructions (valve operation planning)     Confirming condition of the existing valves								
		Developing plan of valve operation								
		Drawing up operation instructions								
		Developing a system of recording valve operations								
		Practical guidance on valve operation (mainly for the participants of valve								
	Guidance for valve	operation)								
	operation	• Regulation of valves in line with volume of water distribution								
		<ul> <li>Managing water pressure associated with valve operation</li> </ul>								
		Guidance on how to take records of valve operation								
		Operating by the FWASA staff								
	Do, monitoring	• Regulating of valves in line with volume of water distribution								
		<ul> <li>Managing water pressure associated with valve operation</li> </ul>								
		<ul> <li>Completing records of valve operation</li> </ul>								
		Drawing up valve operation manual								
	Varification of outcome	Reviewing the records of valve operation								
	and recommendation	Confirming through valve operation								
	to implementation	Conducting comprehension tests								
	agency	Recommending to FWASA								
Implementation	Person in charge	Japanese consultant (1 person)								
resource	Period	In Faisalabad: 1.00 M/M								
Type of Outcome	) )	Valve operation manual, result of questionnaires to the staff of implementing								
		agencies, final report (completion report of the soft component in English),								
		completion report of the soft component in Japanese, documents to verify								
		implementation of activities (inclusive of photos of soft component								
		implementation)								

# Table 2-27: Activities of Soft Component

(6) Procurement Methods of Implementation Resources of Soft Component

The Japanese consultant in charge of water pressure reduction will be assigned to the soft component,

because valve control to manage the pressure of water distribution in accordance with the existing facilities, and determination of the pressure of water distribution in accordance with condition of facilities and volume of water distribution requires the advanced knowledge and skill. The person in charge of the soft component of FWASA will be assigned individually, because duty, position and expertise for each staff under the FWASA operation system are clarified.

(7) Implementation Schedule of Soft Component

Soft components are implemented upon a trial operation of the pump facilities after completion of the construction. Outline of the implementation process is as follows.

_		_		М	1									_														
Out	come	Contents	Activities	D	1	2	3	4	56	5 7	8	9	11	1 2	1 1 3 4	1 1 1 5	1	11 78	1 9	22	2	22 34	2	2	22	2 9	3 0	Remarks
			Local business			D	ep	ar	tu	re														Re	tuı	'n		
		preparaqtion of documents	<ul> <li>Creating a software component plan</li> </ul>	1																								
	bution		<ul> <li>Creating questionnaire, of comprehension test</li> </ul>	1																								
	ter distri	• • • •	<ul> <li>Conducting questionnaires and comprehension tests</li> </ul>	2						000000000000000000000000000000000000000																000000000000000000000000000000000000000		
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Out	ction of	Guidance of valve operation	<ul> <li>The guidance by practice in accordance with the valve operation</li> </ul>	5						000000000000000000000000000000000000000																		
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	schnolog		<ul> <li>Reviews of valve operation records</li> </ul>	1																								
	Те	Verification of outcome and recommendation to implementation agency	<ul> <li>Confirmation by the implementation of valve operation</li> </ul>	2																								
			<ul> <li>Reporting, proposals to</li> <li>FWASA</li> </ul>	2																								

Table 2-28: Implementation Schedule of Soft Component

(8) Output Materials of Soft Component

Output of soft component is as follows.

Item	Submission to	Remarks
Final report (completion report of soft component in English)	FWASA, JICA	
Completion report of soft component in Japanese	JICA	
Documents to verify implementation of activities (inclusive of local photos)	JICA	
Result of questionnaires and comprehension tests to participants	JICA	
Valve operation guidance	Client, JICA	Refer to attached sheets

Table 2-29: Output Materials of Soft Component (Draft)

The valve operation manual for managing water pressure is an effective documents to enable the acquisition of basic skills and knowledge in the soft component. They are to be compiled in Urdu as well as in English to be used for soft component.

(9) Responsibilities of the Implementing Organization of the Pakistan side

The following activities are needed to be continuously implemented by Pakistan side in order to achieve the goal of the soft component.

- To secure personnel and training facilities required for the soft component
- To keep the staff trained in the soft component employed at the same facility in the long term
- To comply with way to reduce water pressure in line with valve operation guidance

### 2-2-4-9 Implementation Schedule

As the Project is implemented under Japan's Grant Aid, the implementation schedule until the commencement of construction works is as follows.

- E/N is signed between the government of Pakistan and Japan, and G/A is signed between the government of Pakistan and JICA.
- JICA recommends a Japanese consultant to the government of Pakistan.
- The agreement of consulting services for the Project is concluded between FWASA and the consultant.
- The construction work is commenced after the detailed design, tender in Japan and conclusion of the contract with the Contractor.
- (1) Detailed Design Phase

The consultant prepares the detailed design document and the tender document based on the Outline Study, which consist of detailed design drawings, specifications and tender documents, etc. The consultant has close talks and meetings with FWASA at the beginning and the end of the detailed design phase, and completes the detailed design after submission of the work products.

(2) Tender Assistant / Supervision Phase

After detailed design phase, the prequalification (P/Q) of the facilities construction tender will be announced in Japan. According to the result of evaluation of P/Q, FWASA will invite construction contractors. Then FWASA will conduct the tenders in the presence of persons involved. The tenderer who bids the lowest price will make a contract as the winning bidders with FWASA.

### (3) Construction Phase

The contractor will be verified by JICA and commence the construction work. It will be needed smooth procurement of building materials and equipment, prompt execution of relevant procedures by the Pakistani Side and implementation of the tasks demarcated as being the responsibility of the Pakistani side.

The implementation schedule of the Project is shown in the table below. Seven months are expected for the detail design, tender and contract, twenty two months are expected for construction after the contract. Twenty two months are required for the production, transportation and installation of booster pump and distribution pump, it is critical in the whole process. For this reason, the prior works such as building frame of the pump station and pipeline work will be completed prior to the procurement of the said equipment.

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Table 2-30: Implementation Schedule of the Project

# 2-3 Obligations of Recipient Country

(1) Special Items for the Project

The following special items are required to be undertaken by the Pakistani Side when carrying out the Project.

- 1) To submit the application for construction works, and others related to the Project if any, and to obtain permission for these.
- 2) To conduct the Initial Environmental Examination.
- 3) To prepare the land, remove trees and other preparatory construction related to the Project.
- 4) To relocate the incoming panel managed by FESCO
- 5) To secure the personnel to operate and maintain the facilities and equipment related to the Project.
- 6) To procure furniture and equipment related to the Project.
- To secure the budget to operate and maintain the facilities and equipment related to the Project.
- 8) To atend the beginning, mid term and complete inspection of the construction.
- 9) To secure the land for office and storage of materials and equipments to the contractor.
- (2) General Items

In the implementation of Japan's Grant Aid Scheme, the Pakistani Side is required to undertake certain measures as follows. To contact and make delineation to the related institutions concerned directly or indirectly with the Project.

- 1) To contact and explain the outline to related jurisdiction involved directly or indirectly in this project
- 2) To provide the data necessary for the Project and permit the Project team (consultant) to take the data back to Japan.
- 3) To ensure prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- To exempt from customs duties, internal taxes and other fiscal levies, this will be imposed in the recipient country with respect to the supply of the products and services under the verified contracts.
- 5) To accord Japanese nationals, whose services may be required in connection with the supply of the products and services such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work
- 6) To assure the safety of the said Japanese nationals and provide full-time police accompaniment at sites where security is highly suspicious.
- 7) To assign the staff necessary for the operation and maintenance and to operate and maintain the facilities constructed under the Grant Aid properly and effectively.
- 8) To bear all the expenses except those covered by the Grant Aid.
- To not re-export the products and materials which are purchased on the basis of the Grant Aid to any other countries.
- 10) To bear the commissions paid to the bank for banking services based upon the B/A.
- (3) Operability for Obligations of Recipient Country

This project contributes to human security and is regarded as the project with high priority in the Pakistan government. For the budget according to project implementation, it will be ensured by the approval of PC-1 by CDWP. PC-1 will be prepared by FWASA. FWASA has experience of preparation of the PC-1 in a previous project, "the Project for the Expansion of Water Supply System in Faisalabad in Islamic Republic of Pakistan", and the project was conducted after approval of PC-1. In view of the circumstances that the PC-1 for water supply project has been approved without particular trouble so far, it is considered that the possibility of approval of PC-1 and ensuring budget for this project is high. In addition, this PC-1 system is in conformity with Japan's Grant Aid scheme, and it is considered to be appropriate.

#### 2-4 Project Operation Plan

(1) Organization and Staff Plan

The purpose of the Project is to replace the Chenab existing water facilities at the Inline Booster Pump Station and T/R, and there is no change in the fundamental distribution system. Therefore, the same system and personnel in the existing water facilities will be applied for the operation and maintenance of the facilities after the completion of the Project.

#### (2) Budget

Currently, a large part of expenditure of FWASA is made up of the personnel cost (payment of salary to the staff) and electricity charges, and the income from water and sewerage charge receipts, a major revenue source, covers only the personnel cost. Even though some of the shortfall of the financial balance is covered by the Punjab government subsidies, the balance is still deficit.

Table 2-31: Balance of FWASA's Operating Expenses for the Past Two Years and for the Next
Fiscal Year

Million Rs.

	2011-2012	2012-2013	2013-2014 (Plan)
1. Income			
Water and sewerage charges	431	543	630
UIP Tax	140	224	300
Subsidy from the Punjab government	179	262	262
Subsidy from World Bank	_		292
Other revenue	83	70	83
Total	833	1099	1567
2.Expenditure			
Personnel cost	420	543	587
Electricity charge	319	470	510
Operation and maintenance expense	170	190	220
Total	909	1203	1317
Balance	-76	-104	250

Source: Financial data of FWASA and direct interviews

The above table shows the balance of FWASA's operating expenses for the past two years, that is fiscal years 2011 and 2012, as well as the planned balance for the next fiscal year of 2013. In fiscal years 2011 and 2012, the subsidy of 179 million Rs and 262 million Rs was obtained respectively from the Punjab government, however, the operating balance was still in deficit. In fiscal year 2013, a loan from the World Bank was obtained in addition to the subsidy from the Punjab government so that surplus in the operating balance is expected. By the implementation of the Project, it is possible to contribute to reducing electricity charges by reducing power consumption, but their contribution is not large from the viewpoint of FWASA's overall electricity charges. It is vital to improve and strengthen both facilities and management through the surplus of the operating balance with the subsidies from the Punjab government and the World Bank. For the improvement and strengthening of the operation and maintenance system, it is necessary to implement the measures to increase the income of FWASA.

#### (3) Collection of Water Charge

The current ratio of collection of water charge by FWASA is about 40% (2012/2013: FWASA). Such a low ratio is considered to be due to the unpaid customers including illegal connections without using

a water meter (ratio of collection of water charge: the proportion of the paid customer for all households including the households use the water by illegal connections. However, FWASA does not grasp the number of illegal connections, so actual ratio of collection of water charge is the proportion of the paid customer for registered customer). The invoice is delivered every two months to the customers, and overdue fees are demanded in cases of delays in payment. However, even if the delinquency is continued, FWASA does not stop water supply, therefore the customer can use water despite not having paid their water charge.

Moreover, although the payment system of water charges is set according to a metered rate at some factories, the payment system for most factories is that they pay water charge at a flat rate in accordance with the size of their premises. For this reason, even if the customer uses the more than necessary water, consumption is not reflected to the water charge. Such an unfair water charge collection system with a flat rate depending on the size of the premises regardless of the quantity of water consumed is thought to be resulting in an unwillingness to pay water charges by some. In addition, this is also thought to be exasperating the current situation whereby the amount of distribution of water to the city is not satisfying the water demand and where there is not enough water available because of low water pressure.

#### (4) System of Collection of Water Charge

In order to improve the water charge collection, it is necessary 1) to increase the unit price of water, 2) to improve the bill collection method, and 3) install water meters and apply volumetric rates. At this moment, it is necessary to compensate for the shortfall of operating balance by subsidies from other agencies, including the Punjab government. Currently, it is unlikely that the operating balance will not be fall into deficit because the facilities of FWASA are operated with the subsidies from the Punjab government and the World Bank. However, the subsidy from the World Bank is limited to a fixed period of five years. Therefore, FWASA should increase the income in order to be able to manage the water facilities independently. To increase the unit price of water charges requires the permission of the Punjab government. However, the Punjab government has rejected the application of price increase of water charges by FWASA in spite of the increased electricity and gas rates. Under such circumstances whereby it is difficult to increase the unit price of water charges, the alternative is to increase the collection rate of water charges in order to improve the management situation of FWASA. The increase of the collection rate of water charges requires the appropriate pricing according to the actual water consumption. Therefore, the collection of water charges at the metered rate is needed. About 20,000 water meters will be installed in some areas by the project assisted by the French government. The necessary measures for further installation of water meters and early change to water charges at a metered rate should be taken, which, together with the subsidies, will cover the operating cost, and thereby achieve independent management.

### (5) Level of Skills and Technology

New operating skills are required for the Project, such as corresponding to the increase of volume of distribution water and the water pressure management of the dual distribution main system. For this reason, enough technical level is ensured by the implementation of distribution flow control at the initial operation guidance at the time of trial operation after the completion of construction and service pressure control at the technical assistance as soft component. In this way, operation and maintenance of facilities would be possible. However, it is necessary to keep the operation and maintenance management system fully functional and pass on the necessary skills in the long term to ensure sustainability of the Project.

# 2-5 Project Cost Estimation

### 2-5-1 Initial Cost Estimation

(1) Cost to be borne by the Pakistani Side

The costs to be borne by the Pakistani Side are shown in the tables below. Those cost have been estimated with the conditions mentioned below.

ltems	Price
Konio	(Rs)
Electrical work to install incoming panel of FESCO	1,600,000
Land clearing	3,000,000
Environmental impact assessment	1,000,000
Bank commission	5,000,000
Total	10,600,000

Table 2-32: Approximate Estimation of the Costs Borne by the Pakistani Side

#### (2) Condition of Cost Estimation

#### 1) Time of Cost Estimation

The Project cost was estimated in September 2013 when the field survey of the Outline Survey was completed.

#### 2) Exchange Rate

The Project cost was calculated using the average rate in three months from June 1, 2014 to August 31, 2014.

- USD 1=99.38 Yen
- PKR 1=0.05 USD
- PKR 1=1.13 Yen

#### 3) Schedule

The schedule is shown in the implementation schedule in chapter 2-2-4-9.

4) Others

The project cost was estimated according to the Guideline of Japanese Grant Aid.

# 2-5-2 Operation and Maintenance Cost

(1) Effect and impact of the Project by reduction of power consumption

Results of provisional calculations of power consumption and electricity rate of the Project components, calculated under four scenarios; the current operation before the Project (case 1), the operation situation after the Project has been completed (case 2), and when the service hours are extended (3 years after the Project is completed) and a water supply equivalent to the designed capacity is distributed (case 3), are shown in the following table. In addition, the result of 12 hours operation of the Chenab distribution pump is shown as case 4. As can be seen by comparing cases one and two, there is a power saving obtained through the Project, however, with the extended distribution hours and the distribution designed volume of water, the power consumption would be increased and eventually increased electricity costs would be inevitable (case 3).

		Case1 (2013)	Case2 (2018)	Case3 (2020)	Case4 (After 2020)	
		(2010)	After im	Reference		
Pump Operation		Current Situation	urrent Situation Same Operation with Current		Chenab Dist. Pump Operation:12h/d	
			Situation	Capacity		
		7588m³/h	7588m³/h	10239m <sup>3</sup> /h	10239m <sup>3</sup> /h	
	Chenab Booster Pump	20 hours/d	20 hours/d	20 hours/d	20 hours/d	
		0.101kW/m <sup>3</sup>	0.109kW/m <sup>3</sup>	0.109kW/m <sup>3</sup>	0.109kW/m <sup>3</sup>	
Water		8418m <sup>3</sup> /h	8418m <sup>3</sup> /h	13230m <sup>3</sup> /h	13230m <sup>3</sup> /h	
Distribution	Chenab Dist. Pump	6 hours/d	6 hours/d	6 hours/d	12 hours/d	
Conditions		0.158kW/m <sup>3</sup>	0.123kW/m <sup>3</sup>	0.123kW/m <sup>3</sup>	0.123kW/m <sup>3</sup>	
		7140m <sup>3</sup> /h	7140m <sup>3</sup> /h	9480m <sup>3</sup> /h	9480m <sup>3</sup> /h	
	JBC Dist. Pump	6 hours/d	6 hours/d	9 hours/d	9 hours/d	
		0.170kW/m <sup>3</sup>	0.170kW/m <sup>3</sup>	0.170kW/m <sup>3</sup>	0.170kW/m <sup>3</sup>	
Pi	ump efficiency	77.4%	85.0%	85.0%	85.0%	
5	Chenab Booster Pump	2,615	2,810	3,792	3,792	
Power	Chenab Dist. Pump	2,667	2,079	3,267	6,535	
Consumption	JBC Dist. Pump	2,182	2,182	3,273	3,273	
(1/1/////)	Total	7,464	7,070	10,332	13,600	
Electricity cost (million Rs.)		97.0	91.9	134.3	176.8	
Un	it cost (Rs./m <sup>3</sup> )	2.85	2.70	2.23	1.98	

Table 2-33: Power consumption and electricity costs of each case

Reference : Drawn on the basis of FWASA's operation management record

Remark 1) Electricity charges are estimated with 13Rs./kWh of unit rate.

The following diagram shows the electricity costs of cases 1, 2 and 3 against the total expenditure and the effects of the expenditure reduction based on the expenditure of the year 2012. From the following diagram, the electricity costs of the Project components are about 8 % of the total expenditure, thus the reduction of power consumption in the Project will not have a significant enough impact to improve the current management situation. However, the operating cost of FWASA can be reduced by providing

assistance in improving energy efficiency. Therefore, the necessity of replacing the facilities in the Project is important to provide sustainable water services.

In addition, in the future, in case FWASA aims to increase the length of time it offers water supply services (case 3), despite the increase in FWASA's expenditure on electricity, it will also receive about 25% additional income from water charges as a result of the increased water distribution volume. Therefore, it is calculated that it will be possible to cover the electricity costs of the Project and labor costs of FWASA.

However, as a prerequisite of the calculation above, it is necessary to abolish the current flat rate system and to introduce comprehensively the volumetric water rate system. Moreover, the installation of water meters at some areas is planned by the French project, therefore, the early transition to the volumetric system is strongly required.

In addition, if it is possible to improve the fee collection rate as a result of the installation of water meters, it can also be envisaged in the future that it will be possible to improve the current situation whereby FWASA can only cover about half of its operating expenses on water and sewerage from the fees it collects for water and sewerage services. This is understood from the result of case 4; the increase of the water and sewerage charges is higher than the increase of electricity charges expected with the increase of the amount of water distributed by pump. Therefore, it will be necessary to work to improve and strengthen the management foundation along with the drastic improvement of the water supply services in the future.





(2) Necessary Actions for Improvement and Strengthening of Management and Impact through the Project

As mentioned above, the water and sewerage rate income against the management expenditure are not enough and it is necessary to significantly increase the water and sewerage rate income and reduce the expenditure as much as possible in order to improve and strengthen the management foundation. Currently FWASA's water charges are charged at a flat rate according to the size of one's residence and its collection rate remains at about 40% against the number of water bills, and non revenue water rate is also high, at about 38% (2012/2013: FWASA).

The increase in the water charge income is expected if the collection rate of water charge is improved from the current rate of about 50% to 100%. However, in fact the water supply facility in Faisalabad is not capable of supplying sufficient amount of water to meet the demand and it does not provide a satisfactory service such as the quantity of water and water pressure to the users.

Under such circumstances, it is obvious that the users are not willing to pay the bills even if they are forced to pay water bills with a flat rate under the condition of insufficient service. The improvement of collection rate is not expected due to the fact that the users are not willing to pay for the water supply service unless the service is improved (quantity of water and water pressure). A flat rate system charges a fixed fee regardless of the quantity of water used. In this case, areas close to the water distribution bases are at an advantage because of a greater water pressure and quantity of water, while areas nearer to the ends of water supply pipes rarely will be able to use running water due to shortages of quantity of water and water pressure. In the situation that there is such an inequity even in the same areas, the introduction of a flat rate system would lead to much discomfort of users and it could reduce the collection rate as well.

In this context, in order to fundamentally improve and strengthen the management foundation, it is essential to shift to a metered rate of water charge system and penalizing those who do not pay, namely "soft" or non-physical measures, as well as improving water supply services such as by improving quantity of water and water pressure on the "hard" or physical side to satisfy the users (refer to the following chart).



Figure 2-19: Action for Improvement and Strengthening of the Management Bases and Status of the Project

Under such a situation, JICA dispatched experts as an organizational improvement advisor of FWASA. Two-year plan to work with the aim of strengthening the management of water services of FWASA (first year: planning, second year: implementation) is presently being implemented.

Currently, the work of the first year has been completed, including: development of organizational management structure, improvement of financial structure, identification of problems and understanding the current situation on strengthening customer responsiveness, formulation of a midterm management plan, financial analysis, creation of a roadmap of water rate revision and establishment of a customer care center. Based on these plans, specific activities aimed at the improvement of the business management and the financial strength of FWASA will be carried out in the future. And also, improvement and strengthening of FWASA's management foundation will be implemented.

Construction is costly due to the large scale of FWASA's infrastructure. Currently, FWASA's financial condition is so unstable that it is not able to secure the replacement costs of its core facilities. In particular, the purpose of the Project is to recover the capacity of facilities to initial conditions and to improve the infrastructure for water supply services for the citizen. The facilities, especially machinery equipment such as pumps, which is the target for replacement are aging, so that the replacement of those facilities is needed immediately. These facilities account for approximately 86% of the total water supply and if the water supply from the core facilities needs to be suspended for some reason before such facilities are replaced, there would be a significant negative impact on citizens of Faisalabad City and FWASA.

In the situation in which FWASA is not able to handle the situation due to its unstable financial management, it is crucial to implement the Project to improve facilities in order to secure stable water supply and strengthen the management foundation. The project financed by France is also assisting to improve the facilities such as construction of tubewells at Rakh Branch Canal, treatment plant of Jhal Khanuana and new distribution main, procurement of water meters and investigation of water leaks in distribution main (FWASA is responsible for the implementation of repairs). In this way, improvement of water supply service by the abovementioned construction and that FWASA takes ownership for managing the services are required in the situation that water facilities of FWASA is gradually enhanced by other projects not only this Project. As the project of France is loan aid and requires reimbursement, in particular, it is necessary to carry out the reimbursement by steadily increasing the revenue of water and sewerage bills.

So far, FWASA has compensated the fund shortage by grants from the Punjab government. However, it has been determined under the five-year plan that a loan from the World Bank will be available from 2013. By allocating these grants to the cost of operation and maintenance, it becomes possible to aim for the immediate financial improvement of FWASA. In addition, FWASA can improve and distribute the amount of water from the water source to the city by proper operation of water supply facilities after the replacement and improvement of facilities by this Project and the French project. After the current situations regarding water supply facilities and management are improved, the rate of fee collection will

be improved with the review of water rates and repair of pipelines. Accordingly, further improvement of management foundation and further improvement of the water supply service is achieved through the increased incomes. Thus, it would become possible in the future to provide adequate service of both water distribution volume and water pressure, by distribution of the whole of the designed distribution flow and extension of pump operating time that is the final goal of this project.

## 2-6 Other Relevant Issues

Another relevant issue affecting smooth implementation of the Project shall be considered as follows.

(1) Customs Clearance and Tax Exemption

The facilities to be constructed and the equipment to be procured by the Project shall be used to resolve an issue of urgency in Pakistan. It is necessary to take care so that customs clearance and tax exemption procedures may be carried out promptly and implementation schedule may not be affected.

(2) Securing the Project Site

It is necessary to secure the Project site including leveling and removal of existing facilities and trees located in the construction area of the Project prior to the commencement of the construction works of the Project.

(3) Securing Safety on the Project Site

The construction works of the Project will be executed on the site where existing facilities are located. It is necessary to secure safety in the construction area, as well as neighboring areas and existing facilities in the Project site.

# **Chapter 3**

# **Project Evaluation**

# **Chapter 3.** Project Evaluation

# **3-1 Recommendations**

# **3-1-1 Precondition to Implement the Project**

For the smooth implementation of the Project, the Pakistani Side shall be responsible for the preconditions listed in the table below. It is necessary to be implemented with certainty and at the appropriate timing.

Contents	Timing		
To Submit applications for construction works, and others related to the	Prior to the commencement of construction works		
Project if any, and to get those permissions.			
To remove existing trees on the Project site	Prior to the commencement of construction works		
To secure the personnel who will be assigned to the Project, and to	Before implementation of soft component (technical		
secure	assistance)		
To procure furniture and equipment related to the Project	Before the completion of construction works		
To secure the budget to operate and maintain the facilities and	Before the completion of construction works		
equipment related to the Project			
To attend the inspections at the beginning, mid-term and completion of	Accordingly		
the construction			

Table 3-1:	Precondition	to Im	plement	the Pro	iect
					,

# 3-1-2 Preconditions to Achieve Project Purpose

For preconditions to achieve and sustain the Project effect, the Pakistani Side shall solve the issues listed below.

(1) Establishment of Operation and Maintenance System

The Project will newly establish water supply facilities. It is necessary to establish a new operation and maintenance system to realize adequate and sustainable operation and maintenance of the facilities and equipment after the completion of the construction works of the Project.

(2) Establishment of Technology for Water Pressure Reduction

The amount of water distributed by pump will increases by renewal of the distribution pump implemented by this Project and two distribution mains from the Terminal Reservoir developed by the French Project. For this reason, it is necessary to reduce the pressure by valve control suitably. Although the soft component will be conducted after the completion of the construction as technical assistance, it is expected to establish their own appropriate pressure reduction techniques depending on the distribution amount through the operation and maintenance after the completion of the Project.

# 3-1-3 Important Assumptions to Achieve Project Purpose

As the external conditions to achieve and continue the effect of the Project, the followings are mentioned.

(1) Prerequisite for Project Implementation

The procedure to secure the budget for this Project (PC-1) will progress smoothly.

(2) External Conditions to achieve the overall plan of the Project

It is required that the public peace and political conditions should not be extremely deteriorated. And it is also required that the service of water supply should be continued. For example, if there are electric power shortages or power cuts, electric power will be supplied preferentially as is the present case, and if there are extreme rises in electricity charges, the provincial government will pay the electricity charges that exceed the capacity of FWASA, etc.

#### **3-2 Project Evaluation**

#### **3-2-1** Relevance of the Project

Under the current conditions that the booster pumps and distribution pumps are aging and can't exert their capabilities, this Project is highly relevant to meet the high priority needs of maintaining stable and sustainable water supply services and reducing power consumption by installing the new pumps. The Project aims to contribute to water supply sustainability and stability by reducing the operating costs through improving energy efficiency by replacing the pumps at Inline Booster Pump Station and T/R.

There is a possibility that the total electric consumption in the future will increase according to increase of the distribution amount of water after the Project. However, electric consumption to produce a unit water volume will be slightly reduced and stable operation of facilities will be expected by renewal of aging facilities.

The rationale behind this Project objective lies in the fact that high operating costs, particularly electricity costs, of WASAs as a result of soaring power bills is hindering the implementation of the Punjab Drinking Water Policy (2010). This policy comes under the National Drinking Water Policy (2009) of Pakistan, which aims to provide safe drinking water to all citizens by 2025. The Punjab policy aims to protect water sources from water pollution, prioritize water resources to be used for the supply of drinking water, and to conduct organizational reform so that the WASAs of five cities in Punjab Province become independent agencies, both executively and organizationally.

In this Project the existing pumps are replaced at the Inline Booster Pump Station and Terminal Reservoir. The existing pumps were made in Japan, so in this Project, it is considered to adopt the Japanese product with low failure frequency and excellent in energy efficiency and quality. Therefore, there is a necessity and advantage of using the technology of Japan to conduct the Project. In addition, it does not require an excessively advanced technology in the construction and operation of the target facilities. Also, the Project will not cause adverse environmental or social impacts. Therefore, it is possible to carry out this Project by the Japanese grant aid. In addition, after the completion of the Project, the operation and maintenance of the aforementioned facilities by the human resources and funds of Pakistan is possible.

Japan has made "ensuring human security and improving social infrastructure" as priority areas of its

Pakistan assistance strategy. This Project is positioned under the "program of ensuring water and sanitation" under the development challenges of the policy of "health and environmental improvement". Under this program, this Project aims at improving access to safe water and improving the hygienic environment. This Project is supporting water and sewage facility development, organization management improvement, securement of financial soundness, improvement of operation and maintenance, and the strengthening of planning capacity.

Moreover, the implementation of the Project is expected to have the following impacts:

1) It is possible to avoid the situation where most of the water supply is stopped immediately due to the failure of aging pumps.

The durability of the machinery is usually from 15 to 20 years. However, more than 20 years has passed since 1992, the completion of construction of the target facilities of this Project. The time of renewal of facilities has already passed. Also, every pump of the Inline Booster Pump Station and T/R was repaired according to its malfunctions. Especially, the Chenab distribution pump of T/R, pump body is cracked due to the influence of cavitation, and the crack damages are repaired by backing process. These pumps are in a condition whereby they could stop working anytime due to malfunctions.

2) Management improvements in the future and the installation of a water distribution pump which can respond to the expansion of water supply capacity by leakage control.

The concrete plan to improve the water facilities of FWASA could not be confirmed. However, it is confirmed that FWASA is working on repairs of the pipelines that were abandoned in the city. If the reparation of the existing facilities continues to be carried out, it will make possible to develop the water facilities by this Project and will fully meet its function.

In this way, this project is consistent with Japan's assistance policy and development needs and policy of Pakistan. Therefore, it is judged that the validity concerning enforcement of this enterprise is high.

#### 3-2-2 Effectiveness

Following the above policy, target facilities are expected to contribute to the human security of Pakistan. By implementation of the Project, the following quantitative effectiveness is expected.

Index	Reference Value (2013)	Target Value (2020:3 years after project completion)
Power Consumption of Booster, Distribution Pump	0.259	0.232
(kW/m³)		
Hourly Maximum Water Supply (m <sup>3</sup> /h)	8,418	13,230
Daily Maximum Water Supply (m <sup>3</sup> /d)	149,508	161,880

Table 3-2: Quantitative Effectiveness of the Project

As qualitative effectiveness, it is expected that the financial situation improvement of FWASA by

reducing power consumption, reduction of maintenance costs and stable operation of the equipment by the update of the pump equipment, reduction of the areas which cannot use water, and appeasement of climate change, etc. Since the above quantitative and qualitative effectiveness are expected, it is considered that the validity of the project is high.

# 3-2-3 Conclusion

It is judged that the relevance of the Project is high and the Project is expected to be effective.

# [Appendices]

- 1. Member List of the Study Team
- 2. Study Schedule
- 3. List of Parties Concerned in the Recipient Country
- 4. Minutes of Discussions
- 5. Soft Component (Technical Assistance) Plan
- 6. References
- 7. Other Relevant Data

# [Appendices]

- 1. Member List of the Study Team
- 2. Study Schedule
- 3. List of Parties Concerned in the Recipient Country
- 4. Minutes of Discussions
- 5. Soft Component (Technical Assistance) Plan
- 6. References
- 7. Other Relevant Data

# Appendix 1

# **Member List of the Study Team**

# 1. Member List of the Study Team

(1) Field Survey (from August 21, 2013 to October 13, 2013)

	Name	Job Title	Organization
1	Mr. Yoshiki OMURA	Team Leader	Japan International Cooperation Agency
2	Mr. Hidetake AOKI	Planning Management	Japan International Cooperation Agency
3	Mr. Kenji SHINODA	Chief Consultant / Water Facility Planning / Opertion and Maintenance Planning	Kokusai Kogyo Co., Ltd.
4	Mr. Takeshi ABE	Sub Chief Consultant / Construction and Supply Planning / Cost Estimation	Kokusai Kogyo Co., Ltd.
5	Mr. Tamotsu ISHII	Machinery Equipment / Electrical Equipment	Ogino Kenko Co., Ltd.
6	Mr. Daisuke SAKAMOTO	Facility Planning, Design 1 / Temporary Work Planning	Kokusai Kogyo Co., Ltd.
7	Mr. Satoshi ISHIDA	Facility Planning, Design 2 / Groundwater Management	Kokusai Kogyo Co., Ltd.

# (2) Explanation of Draft Outline Design (from April 9, 2014 to April 19, 2014)

	Name	Job Title	Organization
1	Mr. Hidetake AOKI	Team Leader	Japan International Cooperation Agency
2	Mr. Kenji SHINODA	Chief Consultant / Water Facility Planning /	Kokusai Kogyo Co., Ltd.
		Opertion and Maintenance Planning	
3	Mr. Takeshi ABE	Sub Chief Consultant / Construction and Supply	Kokusai Kogyo Co., Ltd.
		Planning / Cost Estimation	
## Appendix 2

## **Study Schedule**

### 2. Study Schedule

### (1) Field Survey (from August 21, 2013 to October 13, 2013)

		J	CA			Consultant			
				Chief Consultant /	Sub Chief Consultant /				
No	Date	Team Leader	Planning Management	Water Facility Planning /	Construction and Supply	Machinery Equipment /	Facility Planning, Design 1 /	Facility Planning, Design 2 /	
				Uperation and Maintenance Planning	Planning / Cost Estimation	Electrical Equipment	Temporary Work Planning	Groundwater Management	
		Mr. Omura	Mr. Aoki	Mr. Shinoda	Mr. Abe	Mr. Ishii	Mr. Sakamoto	Mr. Ishida	
1	21-Aug				Narita to Lahore			-	
2	22-Aug		Courtesy	call and meeting with HUD&I	PHED, P&D, Lahore WASA, F	aisalabad WASA, Lahore to	Faisalabad		
4	23-Aug 24-Aug		Site Visit (Chenah	Gourtesy well field, Inline Booster Pum	cail and meeting with Faisala Station, Terminal Reservoir	. Existing Water Facilities of	Japan's Grant Aid)		
5	25-Aug		one Hore energy	Wolf Hold, Inline Beeeter Fam	Internal Meeting	, Existing water rasmiss or	ouparto di arte may		
6	26-Aug		Meeting with Faisalabad W	ASA, Faisalabad to Lahore		Meeting with Faisalabad	Meeting with Faisalabad W	ASA, Faisalabad to Lahore	
7	27-Aug	Me	eting and signing on of Minut	es of Discussion with HID&P	HED	WASA Existing facility survey	ecting preparation		
	27 7105	l ahore to Islamahad	oting and signing on or winde		neb	Existing radiity darvey	Eddardaboontra		
		Signing on of Minutes of Dis	cussion with EAD,	Lahore to Islamabad,	avariant with EAD		I and sub-sentus		
8	28-Aug	Meeting with ADB,		Meeting with ADB.	CUSSION WITH EAD,	Existing facility survey	Local subcontrac Lahore to	Faisalabad	
		Report to Japanese empas Islamabad to Narita	sy and JICA	Report to Japanese embas	sy and JICA				
				Interviewe with the			+	1	
9	29-Aug	to N	larita	Islamabad t	o Faisalabad	Existing facility survey	Collecting data	Collecting data	
10	30-Aug			Existing facility survey	Existing facility survey	Existing facility survey	Collecting data	Collecting data	
11	31-Aug			Existing facility survey	Existing facility survey	Existing facility survey	Existing facility survey	Existing facility survey	
12	1-Seb					terna weeting, wateria revi	Faisalabad to Lahore.	1	
13	2-Sep			Existing facility survey	Existing facility survey	Existing facility survey	Local subcontracting	Existing facility survey	
							preparation		
14	3-Sen			Existing facility survey	Existing facility survey	Existing facility survey	Local subcontracting	Existing facility survey	
	0			Existing fashicy our voy	Existing fashicy carvey	Existing rushity our voy	Contract	Existing rushity survey	
15	4-Sep			Existing facility survey	Existing facility survey	Existing facility survey	Lahore to Faisalabad	Existing facility survey	
16	5-Sen			Other dopor survey	Existing facility survey	Existing facility survey	Other dopor survey	Faisalabad to Lahore,	
10	o oeh			other donor survey	CAULTING LOOMLY SULVEY	Chiefing raomity burvey	other donor survey	preparation	
17	6-Sen			Operation and Maintenance	Local subcontracting	Existing facility survey	Existing facility survey	Local subcontracting	
	o och			system survey	management	CARLINE LOOMLY OUL VEY	Evering requiry our vey	contract	
18	7-Sep			system survey	management	Existing facility survey	Existing facility survey	Lahore to Faisalabad	
19	8-Sep				In	ternal Meeting, Material revi	ew		
20	9-Sep			Well field survey	Local subcontracting	Existing facility survey	Well field survey	Well field survey	
				-	management				
21	10-Sep			Well field survey	management	Existing facility survey	Well field survey	Well field survey	
22	11-Sep			Well field survey	Local subcontracting	Existing facility survey	Well field survey	Well field survey	
	11 000				management Epipelahad to Laboro	Existing facility carvey	Logal subcontracting	Local subcontracting	
23	12-Sep			Existing facility survey	Market survev	Existing facility survey	management	management	
							Local subcontracting	Faisalabad to Lahore,	
24	13-Sep			Existing facility survey	Market survey	Existing facility survey	management	Local subcontracting	
				Faisalabad to Labore			-	nanagement	
25	14-Sep			Local subcontracting	Market survey	Existing facility survey	Local subcontracting	management,	
				management			management	Lahore to Faisalabad	
26	15-Sen			Local subcontracting	Lahore to Islamabad,	Internal Meeting	Material review	Material review	
20	10 000			Lahore to Faisalabad	Market survey	inconta wooding		IVIALEI IAI I EVIEW	
27	16-Sep			Existing facility survey	Market survey	Existing facility survey	Existing facility survey	Existing facility survey	
28	17-Sep			Existing facility survey	Market survey, Jalamahad ta Esiaalahad	Existing facility survey	Existing facility survey	Existing facility survey	
29	18-Sep			Existing facility survey	Procurement survey	Existing facility survey	Other donor survey	Existing facility survey	
30	19-Sep			Existing facility survey	Procurement survey	Existing facility survey	Existing facility survey	Existing facility survey	
31	20-Sep			Burden matter review	Burden matter review	Existing facility survey	Existing facility survey	Existing facility survey	
32	21-Sep			Burden matter review	Burden matter review	Existing facility survey	Existing facility survey	survey	
33	22-Sep				In	ternal Meeting, Material revi	ew		
34	23-Sep			Project contents survey	Construction planning	Facilities and equipment	Facility planning survey	Local subcontracting	
					survey Construction planning	planning survey Eacilities and equipment		preparation	
35	24-Sep			Project contents survey	survey	planning survey	Facility planning survey	preparation	
36	25-Sep			Local subcontracting	Construction planning	Facilities and equipment	Facility planning survey	Local subcontracting	
				contract	survey Construction planning	planning survey Facilities and equipment		contract	
37	26-Sep			Project contents survey	survey	planning survey	⊦acility planning survey	Well field survey	
38	27-Sen			Project contents survey	Faisalabad to Islamabad,	Material review	Material review	Well field survev	
$\vdash$					Keport to JICA Market survey		L		
39	28-Sep			Project contents survey	Islamabad to Narita	Faisalabad to Laho	re, Lahore to Narita	Well field survey	
40	29-Sep			Material review	to Narita	to Narita	to Narita	Material review	
41	30-Sep			Material review				Local subcontracting	
								Local subcontracting	
42	1-0ct			Material review				management	
43	2-Oct			Local subcontracting				Local subcontracting	
$\vdash$	_			I ocal subcontracting				I ocal subcontracting	
44	3-Oct			management				management	
<u>,</u> ]	4.0.			Faisalabad to Islamabad,				Local subcontracting	
45	4-Oct			Report to JICA, Islamahad to Narita				management	
40	E 0-1			to Narita				Local subcontracting	
40	10U-C			LO INAFILA	1			management	
47	6-Oct							Local subcontracting	
	7 0 1							Local subcontracting	
48	/-Uct							management	
49	8-Oct							Local subcontracting	
	0.0.							Local subcontracting	
50	9-Oct							management	
51	10-Oct							Local subcontracting	
$\vdash$								l ocal subcontracting	
52	11-Oct							management	
53	12-0ct							Faisalabad to Lahore,	
54	13-0ct							to Narita	

		JICA	Cons	ultant				
No	Date	Team Leader	Chief Consultant / Water Facility Planning / Operation and Maintenance Planning	Sub Chief Consultant / Construction and Supply Planning / Cost Estimation				
		Mr. Aoki	Mr. Shinoda	Mr. Abe				
1	9-Apr		Narita to	o Lahore				
2	10-Apr		Lahore to Faisalabad, Courtesy call to Faisalabad WASA and FDA, Meeting with Faisalabad WASA					
3	11-Apr		Meeting with Faisalabad WASA					
4	12-Apr		Meeting with Faisalabad WASA					
5	13-Apr		Faisalabad to Lahore					
6	14-Apr	Narita to Lahore	Courtesy call and meeting with HUD&PHED					
7	15-Apr	Courtesy call and meeting with HUD&PHED, Courtesy call and meeting with Faisalabad WASA						
8	16-Apr	ľ	Lahore to Faisalabad, Meeting with Faisalabad WASA, Courtesy call to FDA, Faisalabad to Lahore					
9	17-Apr	Meeting with P&D, HUD&PHED, Faisalabad WASA, Signing on of Minutes of Discussion, Lahore to Islamabad						
10	18-Apr	Courtesy call and meeting with EAD, Report to JICA, Japanese Embassy, Islamabad to Narita						
11	19-Apr		to Narita					

### (2) Explanation of Draft Outline Design (from April 9, 2014 to April 19, 2014)

## **Appendix 3**

## List of Parties Concerned in the Recipient Country

## 3. List of Parties Concerned in the Recipient Country

<ul> <li>(1) Faisalabad Water and Sanitation Agene Mr. Syed Zahid Aziz Dr. Ijaz Ahmad Randhawa Mr. Muhammad Aslam Mr. Waseem Ahmad Hashmi Mr. Muhammad Shoukat Mr. Pervaiz Iqbal Mr. Muhammad Ashraf Mr. Noor Muhammad Mr. Usman Latif Mr. Asghar Ali Mr. Faqir Muhammad Ch. Mr. Muhammad Adnan</li> </ul>	cy (Faisalabad WASA) Managing Director Project Director (JICA) Deputy Managing Director (Engineering) Deputy Managing Director (Service) Deputy Managing Director (Service) Director, Planning & Design Director, Water Resources Director, Water Resources Director, Water Resources Deputy Director, Water Resources Director, Construction II Project Director (French) Assistant Director (JICA
(2) Faisalabad Development Authority (FD	DA)
Mr. Noor ul Amin Mengal	District General
(3) Lahore Water and Sanitation Agency (I	Lahore WASA)
Dr. Javed Iqbal	Managing Director
Mr. Aftab Ahmad	Deputy Managing Director (Engineering)
Mr. Shakeel Ahmed Kashmiri	Director (P&E)
(4) Housing Urban Development and Publi	c Health Engineering Department (HUD&PHED), Government of Punjab
Mr. Waseem Mukhtar	Secretary
Mr. Liaqat Ali Khalique	Additional Secretary (A&H)
Mr. Muazzam Jamil	Deputy Secretary (UD)
(5) <b>Planning and Development Departmen</b>	<b>It (P&amp;D), Government of Punjab</b>
Mr. Afir Anwar Baloch	Secretary
Ms. Bushra Aman	Member (Social Infrastructure)
Mr. Sohil Akhtar Shahzad	Senior Chief (UD)
Mr. Khalid Sultan	Chief (ECA)
Ms. Aatqa Mahmood	Assistant Chief (ECA)
Mr. Amjad Duraiz	Assistant Chief (ECA)
(6) <b>The Urban Unit, Planning and Develop</b>	ment (UU), Government of Punjab
Dr. Kiran Farhan	Senior SWM Specialist
Mr. Farhat Saeed	Senior GIS Specialist
Dr. M. Tahseen Duraiz	Senior WS Specialist
(7) Economic Affairs Division (EAD), Gove	ernment of Pakistan
Mr. Iftikhar Amijad	Deputy Secretary
Mr. Qumar Sarwar Abbsasi	Joint Secretary
Mr. Asghar Ali	Section Officer
(8) Asian Development Bank	Unit Head, Urban, Water, and Emergency Assistance Pakistan Resident
Mr. Mian S. Shafi	Mission
(9) Faisalabad Electric Supply Company (	FESCO)
Mr. Pervaiz Akhtar Shah	Managing Director
Mr. Muddassan Sahail	Director (Grid Station)
(10) <b>University of Agriculture, Faisalaba</b>	d-Pakistan
Dr. Muhammad Arshad Mirza	Professor, Department of Irrigation & Drainage

(11) Embassy of Japan in Pakistan

Mr. Akira Kono	Minister DCM
Mr. Yuichi Kuroda	First Secretary
Mr. Naoki Kamoshida	Counselor (Economic & Development)

### (1 2) Japan International Cooperation Agency Pakistan Office

	5	5
Mr. Mitsuyoshi Kawasaki		Chief Representative
Mr. Ken Kato		Senior Representative
Mr. Tomohiro Azegami		Representative
Mr. Satoshi Hamano		Representative

### (1 3) JICA Expert (Institutional Improvement)

Mr. Kunimasa Nishigaya	JICA Expert
Mr. Yarai Sato	JICA Expert

## Appendix 4

## **Minutes of Discussions**

# Minutes of Discussions August 27, 2013

### 4. Minutes of Discussions

(1) Signed Minutes of Discussions on August 27, 2013 at Field Survey

MINUTES OF DISCUSSIONS ON THE PREPARATORY SURVEY (OUTLINE DESIGN SURVEY) ON THE PROJECT FOR REPLACEMENT OF PUMPING MACHINERY AT INLINE BOOSTER PUMPING STATION & TERMINAL RESERVOIR IN FAISALABAD IN THE ISLAMIC REPUBLIC OF PAKISTAN

Lahore, August 27, 2013

Mr. Syed Zahid Aziz Managing Director Water and Sanitation Agency Faisalabad Development Authority

Mr. Waseem Mukhtar Secretary Housing Urban Development and Public Health Engineering Department, Government of Punjab

-10

Mr. Arit-Anwar Baloch Secretary Planning and Development Department, Government of Punjab

Dr. Litikhar Amjad Deputy Secretary Economic Affairs Division, Government of Pakistan

Mr. Yoshiki Omura Leader, Preparatory Survey (Outline Design Survey) Team, Japan International Cooperation Agency

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In response to a request from the Government of the Islamic Republic of Pakistan (hereinafter referred to as "Pakistan") for the Project for Replacement of Pumping Machinery at Inline Booster Pumping Station & Terminal Reservoir in Faisalabad (hereinafter referred to as "the Project"), the Japan International Cooperation Agency (hereinafter referred to as "JICA") sent the Preparatory Survey Team (hereinafter referred to as "the Team") for the Outline Design Survey on the Project to Pakistan from August 21 to September 29, 2013.

The Team held a series of discussions with relevant organizations on the Inception Report of the study and conducted field visits to develop scope and implementing arrangements of a further survey. In the course of discussions, the Pakistani side agreed the contents of the Inception Report in principle and both sides confirmed the items described on the main points discussed in the Appendix 1. The tentative schedule of the Preparatory Survey is attached in the Appendix 3. The Japan's Grant Aid Scheme is described in the Appendix 4.

It should be noted that implementation of the Outline Design Survey does not imply any decision or commitment by JICA to extend its grant for the Project at this stage.

Appendix 1: Main Points Discussed Appendix 2: Attendant list Appendix 3: Tentative schedule Appendix 4: Japan's Grant Aid Scheme





2

Appendix 1

#### MAIN POINTS DISCUSSED

#### 1. Objectives of the Project

The Pakistani side understood that the Project is an emergency measure against a decrease in production of water due to aging, outdating and inefficiency of existing pumps so that the objectives of the Project are to restore capacity of pumps of the main water supply system and to improve energy efficiency for reduction of operation and maintenance cost.

#### 2. Request for the Grant Aid Project

Both sides confirmed the request for the Japan's Grant Aid Project as follows:

(i) Project Site

Within the service area of Faisalabad WASA, in Faisalabad, Punjab

- (ii) Civil / Mechanical works
  - Water Facilities, Equipment:

Inline Booster Pumping Station:

Booster Pumps (27.2 m3 / min×3 nos., 51.0 m3 / min×4 nos.)

Terminal Reservoir Pumping station:

Distribution Pumps (27.2 m3 / min×3 nos., 37.7 m3 / min×7 nos.)

Generator:

700 kVA, 3.3 kV×3 nos.; 1,000 kVA, 3.3 kV×5 nos.

Miscellaneous Work:

- Yard piping, panels, water flow meters, rehabilitation of reservoir leakage and pump house, etc.
- (iii) Consulting Services
- Detailed design
- Assistance for tendering
- Construction supervision
- Technical assistance (soft component)

The Pakistani side understands to be responsible for improvement of distribution networks, functionalization of the existing overhead reservoirs in particular.

#### 3. Specification of Inline Booster Pumps and Distribution Pumps

The Team mentioned that a well production study would be conducted during the survey. According to the existing pumping data, groundwater abstraction has been decreased due to lowering of groundwater level, deterioration of pumps, curtailing operational hours to save energy cost and to lessen influence to farming shallow wells. Therefore both sides agreed that specification of inline booster pumps depends on the results of the above study and may not be determined to restore the initial well capacity in order to operate Chenab water supply system sustainably. The Team requested that the Pakistani side provide information of boreholes such as static and dynamic water levels, pumping discharge, boundaries biotecuted biotecute land

lowering history of groundwater level.

The Pakistani side explained that WASA was distributing water from the terminal reservoir for less than 12 hours to optimize operational cost, so the Team requested WASA to provide the operating record and a future plan of operational hours of distribution pumps. Both sides agreed that distribution pumps with appropriate capacity would be selected in sufficient quantity so as to make their operation sustainable and achieve high efficiency of energy consumption, although 10 pumps were officially requested.

The Pakistani side also explained that the major purpose of operating generators would be maintaining a minimum water supply during power shutdowns.

Both sides agreed that specification and number of pumps and generators would be determined based on the results of the pumping test, operation plan and efficiency of operation.

#### 4. Natural condition survey

The Team explained that the Team would conduct soil investigation in the terminal reservoir premises, pumping test some of the production wells and topographical survey in the inline booster pumping station and terminal reservoir premises. Both sides agreed to the methodology, number of samples and duration of each study.

#### 5. Design of the terminal reservoir pumping station

The Team explained that a design of the terminal reservoir pumping station (ADB component) would be determined upon such factors as the result of soil investigation, availability of space to accommodate pumps, efficiency of daily operation, durability of the existing building, and cost.

Both sides agreed that the Project works require suspension of pumping for a certain period. To this regard, the Pakistani side requested the Team to propose some alternative methods to make suspension time as short as practical, and to program the suspension period in winter season.

#### 6. Management improvement with the Japanese technical cooperation

The Team referred to THE PUNJAB DRINKING WATER POLICY that the government of Punjab was conducting Institutional Reform Program in the Urban Water Service Providing Government Agencies not only for improving service delivery but also addressing multi issues such as rationalization of tariff, improvement in management of organization and introduction of performance monitoring systems so as to ensure that the WASAs are transformed into progressive, accountable and financially viable institutions by the year 2016.

The Team explained that the Project would contribute to cost cut by a technical approach for reduction of energy consumption by replacement of pumps, but it was still necessary for WASA to make efforts to reduce operational expenditure and rationalize water tariff to improve the financial status. The Pakistani side promised to make efforts regarding the above issues cooperating with the activities of the Institutional Reform Advisor and the Project for Improving the Capacity of WASAs in Punjab Province of the Japanese technical cooperation.

#### 7. The French government funded project

The Pakistani side explained about the project financed by the French government that an additional clear water new transmission pipeline of 1,000 mm and 6.5 km proposed to connect the new terminal reservoir (Japanese Grant) and distribution network at the beginning of 800 mm dia. reinforcement pipeline to improve service pressure in town, particularly the Eastern area.

#### 8. Possibility of procurement from the third countries

The Pakistani side agreed that there would be a possibility of procurement from other than Japan or Pakistan due to such reasons as availability of products, easiness and cost in both countries, and some other reasons. The Team explained that it is clearly mentioned in the relevant paragraph of Grant Agreement which would be signed by both sides after an approval of the Project by the Japanese government as quoted below and also in the item 3. Japan's Grant Aid Scheme (3) of Appendix 4 of this Minutes of Discussions.

#### Grant Agreement

#### Article 3 Use of the Grant

(1) The Grant shall be used by the Government of the Islamic Republic of Pakistan properly and exclusively for the purchase of such products of Japan or the Islamic Republic of Pakistan and such services of Japanese or Pakistani nationals necessary for the implementation of the Project as listed below (The term "nationals" whenever used in the G/A means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons in the case of Japanese nationals and Pakistani physical or juridical persons controlled by Pakistani physical persons in the case of Pakistani nationals.):

(a)equipment and services necessary for the procurement and the installation thereof;

(b)services necessary for the transportation of the products referred to in (a) above to ports in the Islamic Republic of Pakistan and those for internal transportation therein; and

(c)services necessary for the training in operating the equipment referred to in (a) above and the guidance in managing the equipment referred to in (a) above .

(2) Notwithstanding the provisions of sub-paragraph (1) above, when JICA and the Authority deem it necessary, the Grant may be used for the purchase of the products of the kind referred to in (a) of sub-paragraph (1) above, which are products of countries other than Japan or the Islamic Republic of Pakistan and the services of the kind referred to in (a),(b) and (c) of sub-paragraph (1) above, which are services of nationals of countries other than Japan or the Islamic Republic of Pakistan.

#### 9. Undertakings to be taken by the Pakistani side for the project implementation

(i) Procedure of PC-1 approval

The Pakistani side agreed to coordinate the procedure for PC-1 immediately after the explanation of a draft final report of Outline Survey, so that the Japanese government could proceed with an approval process of the Project. The Pakistani side explained a procedure of approval by the Central Development Working Party / the Executive Committee of National Economic Council (CDWP / ECNEC).

(ii) Coordination for Environmental and social issues

The Pakistani side agreed to undertake necessary procedures with Department of Environment / Environmental Protection Agency of Punjab (EPA) to implement the Project especially an approval of reconstruction of the pumping station of the terminal reservoir.

(iii) Clearance and permission for the natural condition survey

The Pakistani side agreed to undertake necessary procedures for clearance and permission for the natural condition survey.

(iv) Land acquisition (land use agreement / temporary construction permission)

The Pakistani side agreed to obtain the relevant approval documents on land use agreement and temporary construction permission from respective government department in a timely manner, if land acquisition is to be necessary in the further survey.

(v) Tax exemption arrangement

The Pakistani side agreed to undertake necessary procedures for tax exemption and customs clearance of the products at the port of disembarkation.

10. Consultation

JICA and Faisalabad WASA will consult with each other in respect of any matter that may arise from or in connection with the Preparatory Survey (Outline Design Survey).

Appendix 2

#### ATTENDANT LIST

#### <Pakistani Side>

Faisalabad Water and Sanitation Agency (WASA Faisalabad, FDA)

Mr. Syed Zahid Aziz Dr. Ijaz Ahmad Randhawa Mr. Muhammad Aslam Mr. Waseem Ahmad Hashmi Mr. Pervaiz Iqbal Mr. Muhammad Ashraf Mr. Asghar Ali Mr. Faqir Muhammad Ch. (WASA Faisalabad, FDA) Managing Director Deputy Managing Director (Finance) Deputy Managing Director (Engineering) Deputy Managing Director (Services) Director, Planning & Design Director, Water Resources Director, Construction II Project Director (French)

Housing Urban Development and Public Health Engineering Department (HUD&PHED),

Government of Punjab Mr. Liaqat Ali Khalique Mr. Muazzam Jamil

Additional Secretary (A &H) Deputy Secretary (UD)

#### Planning and Development Department (P&D), Government of Punjab

Mr. Arif Anwar Baloch Ms. Bushra Aman Mr. Sohail Akhtar Shahzad Mr. Khalid Sultan Ms. Aatqa Mahmood Mr. Amjad Duraiz Secretary Member (Social Infrastructure) Senior Chief (UD) Chief (ECA) Asstt. Chief (ECA) Asstt. Chief (ECA)

Senior GIS specialist

Senior WS specialist

The Urban Unit, Planning and Development Department (P&D), Government of Punjab Dr. Kiran Farhan Senior SWM Specialist

Dr. Kiran Farhan Mr. Farhat Saeed Dr. M. Tahseen Aslam

#### <Japanese Side>

Mr. Yoshiki Omura

Mr. Hidetake Aoki Mr. Kenji Shinoda Mr. Takeshi Abe

Mr. Tamotsu Ishii Mr. Daisuke Sakamoto Mr. Satoshi Ishida Leader of the Preparatory Survey Team / Senior Advisor of JICA Planning Management / Staff of JICA Headquarter Chief Consultant / WS Planner / O&M Planner Deputy Chief Consultant / Construction and Procurement Planner / Cost Estimator Machinery and Electric Planner Facility Planner & Designer Facility Planner & Designer Facility Planner & Designer / Groundwater Management Specialist

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#### Appendix 3

#### TENTATIVE SCHEDULE

Year	2013	5					2014							
Month	7	8	9	10	11	12	1	2	3	4	5	6	7	8
Preparation in Japan	[													
Work in Pakistan							61							ł1
Work in Japan							5							
Explanation of the draft of Outline Design Survey report														
Preparation of the Outline Design Survey report												E		
Report	*1)						*2)	12					*3)	

\*1) IC/R: Inception Report \*2) DOD/R: Draft of Outline Design Report \*3) F/R: Final Report

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#### Appendix 4

#### JAPAN'S GRANT AID SCHEME

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The Government of Japan (hereinafter referred to as "the GOJ") is implementing the organizational reforms to improve the quality of ODA operations, and as a part of this realignment, a new JICA law was entered into effect on October 1, 2008. Based on the law and the decision of the Government of Japan (hereinafter referred to as "the GOJ"), JICA has become the executing agency of the Grant Aid for General Projects, for Fisheries and for Cultural Cooperation, etc.

The Grant Aid is non-reimbursable fund to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

#### 1. Grant Aid Procedures

The Japanese Grant Aid is conducted as follows-

- Preparatory Survey (hereinafter referred to as "the Survey")
  - The Survey conducted by JICA
  - Appraisal & Approval
- Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Determination of Implementation
- The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as "the G/A")
  - Agreement concluded between JICA and a recipient country
- Implementation
  - Implementation of the Project on the basis of the G/A.

#### 2. Preparatory Survey

(1) Contents of the Survey

- The aim of the Survey is to provide a basic document necessary for the appraisal of the Project by JICA and the GOJ. The contents of the Survey are as follows:
  - Confirmation of the background, objectives, and benefits of the Project and also
    institutional capacity of agencies concerned of the recipient country necessary for the
    implementation of the Project.
  - Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, financial, social and economic point of view.
  - Confirmation of items agreed on by both parties concerning the basic concept of the Project.
  - Preparation of a basic design of the Project.
  - Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures are

necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

#### (2) Selection of Consultants

For smooth implementation of the Survey, JICA uses (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

The Report on the Survey is reviewed by JICA, and after the appropriateness of the Project is confirmed, JICA recommends the GOJ to appraise the implementation of the Project.

#### 3. Japan's Grant Aid Scheme

(1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes(hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the recipient country to make a plead for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions,

#### (2) Selection of Consultants

The consultant firm(s) used for the Survey will be recommended by JICA to the recipient country to also work on the Project's implementation after the E/N and the G/A, in order to maintain technical consistency.

#### (3) Eligible source country

Under the Japanese Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When JICA and the Government of the recipient country or its designated authority deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country. However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm are limited to "Japanese nationals".

#### (4) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by JICA. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

- (5) Major undertakings to be taken by the Government of the Recipient Country In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as Annex.
- (6) "Proper Use"

The Government of the recipient country is required to maintain and use the facilities constructed and the equipment purchased under the Grant Aid properly and effectively and

to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

(7) "Export and Re-export"

The products purchased under the Grant Aid should not be exported or re-exported from the recipient country.

- (8) Banking Arrangements (B/A)
  - a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank of Japan (hereinafter referred to as "the Bank"). JICA will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
  - b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.
- (9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions to the Bank.

(10) Social and Environmental Considerations

A recipient country must ensure the social and environmental considerations for the Project and must follow the environmental regulation of the recipient country and JICA socio-environmental guidelines.

(End)

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#### Annex

#### Major Undertakings to be taken by Each Government

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IDF and the extension after the frame / panel	•	
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al furniture		
t equipment	•	
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sing commission of A/P		•
ient commission		•
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ne(Air) transportation of the products from Japan to the recipient country		-
xemption and customs clearance of the products at the port of disembarkation	- 1.1	•
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# Minutes of Discussions April 17, 2014

Lahore, April 17, 2014

(2) Signed Minutes of Discussions on April 17, 2014 at Explanation of Draft Outline Design

### MINUTES OF DISCUSSIONS ON THE PREPARATORY SURVEY (THE OUTLINE DESIGN) ON THE PROJECT FOR REPLACEMENT OF PUMPING MACHINERY AT INLINE BOOSTER PUMPING STATION & TERMINAL RESERVOIR IN FAISALABAD IN THE ISLAMIC REPUBLIC OF PAKISTAN (EXPLANATION OF THE DRAFT REPORT)

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Mr. Syed Zahid Aziz Managing Director Water and Sanitation Agency Faisalabad Development Authority

Mr. Noor al Amin Mengal Director General Faisalabad Development Authority

Mr. Waseem Mukhtar

Secretary Housing Urban Development and Public Health Engineering Department, Government of Punjab

Mr. Arif Anwar Baloch Secretary Planning and Development Department, Government of Punjab

Mr. Hidetake Aoki Leader, Preparatory Survey Team for Outline Design Study, Japan International Cooperation Agency

Mr. Shahid Ahmed Vakil Deputy Secretary Economic Affairs Division, Government of Pakistan

The Japan International Cooperation Agency (hereinafter referred to as "JICA") has conducted the Preparatory Survey (the Outline Design) on THE PROJECT FOR REPLACEMENT OF PUMPING MACHINERY AT INLINE BOOSTER PUMPING STATION & TERMINAL RESERVOIR IN FAISALABAD (hereinafter referred to as "the Project"). Through discussions, field surveys, and technical examination of the study results in Japan, JICA prepared a draft final report of the survey.

In order to explain and to consult with the Government of the Islamic Republic of Pakistan (hereinafter referred to as "Pakistan") on the components of the draft final report, JICA dispatched to Pakistan the Draft Final Report Explanation Team (hereinafter referred to as "the Team"), headed by Mr. Hidetake Aoki, Deputy Director, Water Resources Management Division 1, Global Environment Department, JICA from the 10th to the 18th of April 2014.

As a result of discussions, both sides confirmed the main items described in the attached sheet.

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#### ATTACHMENT

#### 1. Components of the Draft Final Report

The Pakistani side agreed and accepted in principle the components of the draft final report explained by the Team. The project sites map and components are shown in Annex-1 and Annex-2.

#### 2. Responsible and implementation agency

- 2-1). The Responsible Agency is the Housing Urban Development and Public Health Engineering Department, Government of Punjab (hereinafter referred to as "HUD&PHED").
- 2-2). The Implementing Agency is the Water and Sanitation Agency, Faisalabad Development Authority (hereinafter referred to as "Faisalabad WASA").

#### 3. Submission of the Final Report

JICA will complete the final report in accordance with the confirmed items and send it to the Government of Pakistan in August 2014.

#### 4. Japan's Grant Aid Scheme

- 4-1). The Pakistani side understood the Japan's Grant Aid Scheme explained by the Team, as described in Attachment 1 for Annex-5.
- 4-2). The Pakistani side will take the necessary measures, as described in Attachment 2 for Annex-5, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.

#### 5. Other Relevant Issues

#### 5-1) Design of Pumping operation hours

Pumping operation hours at present are 6 hours per day each for the terminal reservoir pumping stations of both the Chenab and the Jhang Branch Canal water supply systems. Based on the discussions, it is proposed in the preparatory survey that operating hours of both pumping stations be 6 and 9 hours per day respectively for 2020 due to affordability of bearing cost for additional operation hour and little revenue rise with extension of operation hour under the fixed billing system. First of all, the Team proposed that they should be 9 and 12 hours per day after the completion of the Project for the Chenab system and as designed in "THE PROJECT FOR THE EXPANSION OF WATER SUPPLY SYSTEM IN FAISALABAD IN ISLAMIC REPUBLIC OF PAKISTAN" for the Jhang Branch Canal system. The Pakistani side explained that introduction of metered billing system would be partially in progress with deployment of meters by the project financed by the French government and others. Faisalabad WASA is meeting with the water demand in principle in the current water service area and cannot expect a rise of revenue with

increase of water production under the current fixed billing system. By serving more areas as well as by installation of meters the revenue may increase. Furthermore, Faisalabad WASA and Government of the Punjab are striving to use water more efficiently and enhancing the coverage through this project by the French government. Faisalabad WASA promised to improve its management by raising the revenue and extend pumping operation hours of the terminal reservoir stations as designed, so that both facilities with cooperation of the Project and the above project would be appropriately utilized and water supply service would be improved.

#### 5-2) Project cost estimation and fairness

The Team explained to the Pakistani side the estimated project cost as attached in Annex-3. Both sides confirmed that this cost estimation is provisional and would be examined further by the Government of Japan for its final approval. Furthermore, both sides confirmed that this project cost estimation is CONFIDENTIAL, and should not be duplicated in any forms or released to any other parties until the relevant contracts are awarded, in order to secure fairness of tender procedure.

#### 5-3) Necessary budget to be covered by the Pakistani side

The Japanese side explained necessary project cost to be covered by the Pakistani side as attached in Annex-3. The Pakistani side agreed to secure necessary budget in order to bear necessary annual operation and maintenance cost.

#### 5-4) Tax Exemption

The both sides confirmed that the tax exemption including Value Added Tax (VAT), customs duty, and any other taxes and fiscal levies in Pakistan, which is to be imposed in relation to the Project activities, will be ensured by the Pakistani side. Faisalabad WASA will take any necessary procedures for tax exemption, and in case that tax exemption is not secured, the cost of tax will be borne by Faisalabad WASA. The Pakistani side agreed to undertake necessary procedures for tax exemption and customs clearance of the products at the port of disembarkation.

#### 5-5) Undertakings of the Pakistani side

The Team explained to the Pakistani side its undertakings as listed in Attachment 2 for Annex-5 and the Pakistani side understood and agreed to execute them. The following items are to be emphasized:

#### Approval procedure of Planning Commission - I (PC-I) for the Project

The Pakistani side explained that Faisalabad WASA would prepare and submit a PC-I document to HUD&PHED/P&D Board, Government of the Punjab and PC-I needed to be approved by the CDWP / Executive Committee of National Economic Council (ECNEC), the Government of Pakistan by the end of September 2014. The Pakistani side agreed to take necessary procedures to secure its approval.

#### 2) Procedure of Initial Environmental Examination (IEE)

The Pakistani side agreed to complete necessary procedure of IEE with Department of Environment / Environmental Protection Agency of Punjab (EPA) by the end of January 2015 in accordance with "the Environmental Protection Act 2012" of the Punjab province.

#### 3) Technical assistance ("Soft Component") of the Project

Both sides confirmed that the technical assistance ("Soft Component") on the distribution pump operation for water pressure control in the distribution network was designed under the Project. To secure the effectiveness of the soft component, Faisalabad WASA agreed to assign competent and appropriate staff who can acquire the necessary skills and knowledge to apply to their job.

#### 4) Relocation of incoming panel

The team explained that it is necessary to relocate the incoming panel at Terminal Reservoir which is managed by Faisalabad Electric Supply Company (FESCO). The Pakistani side agreed to it.

#### 5) Secure the budget for operation and maintenance

The team explained that in order to operate the facilities that would have been developed by the Project effectively, it is necessary to secure the budget.

#### 5-6) Specification of Inline Booster Pump and Distribution Pump

The team explained that the specification of Inline Booster Pumps was designed by consideration of designed intake flow and twenty-hour operation in a day. The team also explained that the specification of the Distribution Pumps was designed to distribute the whole of water volume from the Chenab well field by the pumps.

#### 5-7) Design of Terminal Reservoir Pump Station

The Pakistani side had originally requested the rehabilitation of existing pump station to replace the distribution pumps. The team explained that a new pump station would be constructed near the entrance of the compound of Terminal Reservoir Pump station instead of rehabilitation of the existing pump station because of construction safety and minimum water supply outage.

#### 5-8) Possibility of procurement from the third countries

The Pakistani side agreed that there would be a possibility of procurement from other than Japan or Pakistan due to such reasons as availability of products, easiness and cost in both countries, and others. The Team explained that it is clearly mentioned in the relevant paragraph of Grant Agreement which would be signed by both sides after an approval of the Project by the Japanese government as quoted below and also in the item 3. Japan's Grant Aid Scheme (3) of Appendix 5 of this Minutes of Discussions.

Grant Agreement

#### Article 3 Use of the Grant

(1) The Grant shall be used by the Government of the Islamic Republic of Pakistan properly and exclusively for the purchase of such products of Japan or the Islamic Republic of Pakistan and such services of Japanese or Pakistani nationals necessary for the implementation of the Project as listed below (The term "nationals" whenever used in the

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G/A means Japanese physical persons or Japanese juridical persons controlled by Japanese physical persons in the case of Japanese nationals and Pakistani physical or juridical persons controlled by Pakistani physical persons in the case of Pakistani nationals.):

(a)equipment and services necessary for the procurement and the installation thereof;

(b)services necessary for the transportation of the products referred to in (a) above to ports

in the Islamic Republic of Pakistan and those for internal transportation therein; and

(c)services necessary for the training in operating the equipment referred to in (a) above and the guidance in managing the equipment referred to in (a) above.

(2) Notwithstanding the provisions of sub-paragraph (1) above, when JICA and the Authority deem it necessary, the Grant may be used for the purchase of the products of the kind referred to in (a) of sub-paragraph (1) above, which are products of countries other than Japan or the Islamic Republic of Pakistan and the services of the kind referred to in (a),(b) and (c) of sub-paragraph (1) above, which are services of nationals of countries other than Japan or the Islamic Republic of Pakistan.

#### 5-9) Distribution pump operation for water pressure control in the distribution network

The Pakistani side understood that increase of capacity of distribution pumps would improve distribution amount and pressure during peak time in a day. On the other hand, the distribution network facilities had been updated partially under the French project for leakage reduction and control and would need to be improved so that Faisalabad WASA could distribute more water with higher pressure. The Team explained that Faisalabad WASA needed to execute a water pressure management plan to operate the pumps appropriately in order to avoid an increase of water leakage and burst of distribution pipes based on the Technical assistance ("Soft Component") of the Project. Both sides agreed with it.

#### 5-10) Asset management in the distribution network

As discussed above, Faisalabad WASA explained to execute asset management and proper investment in the distribution network to reduce leakage and distribute more water with higher pressure in order to improve water supply service quality so that the revenue with water supply would rise.

#### 5-11) Management improvement

The Team mentioned referring THE PUNJAB DRINKING WATER POLICY that the government of Punjab was conducting Institutional Reform Program in the Urban Water Service Providing Government Agencies in order to not only improve service delivery but also address allied issues such as introduction of metered rate system, rationalization of tariff, improvement of tariff collection rate, improvement in management of organization and introduction of performance monitoring systems so as to ensure that the WASAs are transformed into a progressive; accountable and financially viable institution by the year 2016.

The Team pointed out that the operational loss had recently been increasing as the total operational expenditure had grown as shown in Annex-4. The Team explained that the Project would contribute to cost reduction by a technical approach for reduction of energy consumption

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by replacement of pumps, but it was still necessary for Faisalabad WASA to make efforts to reduce operational expenditure and for the Government of Punjab to rationalize water tariff or continue to provide subsidy to improve the financial status.

Annex-1 Project Sites map

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Annex-2 Components of the Project and designed pump operation hours

Annex-3 Project cost to be borne by each government

Annex-4 Financial status of Faisalabad WASA

Annex-5 Japan's Grant Aid Scheme

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PROJECT SITES MAP

Annex-1



Annex-2

#### COMPONENTS OF THE PROJECT AND DESIGNED PUMP OPERATION HOURS

#### 1. COMPONENTS OF THE PROJECT

(i) Project Site

Within the service area for Faisalabad WASA, in Faisalabad, Punjab

(ii) Civil/Mechanical works

Water Facilities, Equipment:

Inline Booster Pump station:

Booster Pumps (48.8 m3/min ×4 nos., 24.4 m3/min ×2 nos.)

Miscellaneous Works:

Yard Piping, Transformer, Panels, Flow meter, and Hoist crane, etc.

Terminal Reservoir Pump station:

Distribution Pumps (63.0 m3/min ×4 nos., 31.5 m3/min ×2 nos.)

Pump station (included the pump room and electrical room)

Miscellaneous Works:

Yard Piping, Transformer, Panels, Flow meter, Hoist crane, and Rehabilitation of Reservoir leakage, etc.

(iii) Consulting Services

Detailed design

Assistance for tendering

Construction supervision

- Technical assistance (soft component)
- DESIGNED PUMPING OPERATION HOURS FOR THE TERMINAL RESERVOIRS Chenab water supply system: 6 hours per day Jhang Branch Canal water supply system: 9 hours per day



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Annex-3
Confidential
PROJECT COST TO BE BORNE BY EACH GOVERNMENT
1. Project Cost by the Japanese Grant Aid
Total Project Cost to be borne by Japan Grant Aid: Approximately
Constructions and Procurement of equipment
Soft Component
Detailed Design and Construction Supervision
Detailed Design and Construction Supervision
2. Project Cost by the Pakistani Government
Total Project Cost to be borne by the Pakistani Government: Approximately JPY12.0 Million.
(equivalent to approx. PKR 10.6 Million).
Banking arrangement
Relocating the incoming panel at Terminal Reservoir
Public awareness campaign for water conservation

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(Applied conversion rate: PKR 1 = JPY 1.13)

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#### Annex-4

### FINANCIAL STATUS OF FAISALABAD WASA

			Million Rs.
	2011-2012	2012-2013	2013-2014 (Plan)
1. Income			
Water and sewerage charges	431	543	630
UIP Tax	140	224	300
Subsidy from the Punjab government	179	262	262
Subsidy from World Bank		-	292
Other revenue	83	70	83
Total	833	1099	1567
2.Expenditure			
Personnel cost	420	543	587
Electricity charge	319	470	510
Operation and maintenance expense	170	190	220
Total	909	1203	1317
Balance	-76	-104	250

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Annex- 5

#### JAPAN'S GRANT AID SCHEME

The Government of Japan (hereinafter referred to as "the GOJ") is implementing the organizational reforms to improve the quality of ODA operations, and as part of this realignment, JICA was re-organized on October 1, 2008. After the re-organization of JICA, following the decision of the GOJ, Grant Aid for General Project is extended by JICA.

Grant Aid is non-reimbursable fund to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures (Attachment 1)

Japanese Grant Aid is conducted as follows:

- Preparatory Survey (hereinafter referred to as "the Survey")
- The Survey conducted by JICA
- · Appraisal & Approval
  - -Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Determination of Implementation
  - -The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as "the G/A")
  - -Agreement concluded between JICA and a recipient country
- Implementation
  - -Implementation of the Project on the basis of the G/A
- 2. Preparatory Survey
  - (1) Contents of the Survey

The aim of the Survey is to provide a basic document necessary for the appraisal of the Project by JICA and the GOJ. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, financial, social and economic point of view.
- Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- Preparation of an outline design of the Project.
- Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Outline Design of the Project is confirmed considering the gridelines of the Japan's Grant Aid scheme.

A-30

JICA requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA uses (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

The Report on the Survey is reviewed by JICA, and after the appropriateness of the Project is confirmed, JICA recommends the GOJ to appraise the implementation of the Project.

#### 3. Japan's Grant Aid Scheme

(1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the E/N will be singed between the GOJ and the Government of the recipient country to make a plead for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

(2) Selection of Consultants

The consultant firm(s) used for the Survey will be recommended by JICA to the recipient country to also work on the Project's implementation after the E/N and the G/A, in order to maintain technical consistency.

(3) Eligible source country

Under the Japanese Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When JICA and the Government of the recipient country or its designated authority deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country. However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

(4) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by JICA. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

A Major undertakings to be taken by the Government of the Recipient Country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as Attachment 2

6) Proper Use

The Government of recipient country is required to maintain and use the facilities

constructed and the equipment purchased under the Grant Aid properly and effectively and to assign staff necessary for this operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.

(7) Export and Re-export

The products purchased under the Grant Aid should not be exported or re-exported from the recipient country.

- (8) Banking Arrangements (B/A)
  - a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). JICA will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
  - b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.
- (9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions to the Bank.

(10) Social and Environmental Considerations

A recipient country must ensure the social and environmental considerations for the Project and must follow the environmental regulation of the recipient country and JICA socio-environmental guideline.

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## **Appendix 5**

## Soft Component (Technical Assistance) Plan
## 5. Soft Component (Technical Assistance) Plan

## 5-1 Background of the Soft Component (Technical Assistance)

This Project aims to reduce the cost of distribution of water through stabilizing operation of the facility and promoting the efficiency of energy consumption by the replacement of the pumps at the Inline Booster Pump Station and T/R where originated from Chenab well field in Faisalabad City, the third largest city of Pakistan. The scope of the Project consists of the replacement of the pump facilities at Chenab Inline Booster Pump Station, replacement of the pump facilities and corresponding construction of the pump station at T/R and repair of water leakage at T/R tank.

(1) Current Situation

Chenab water supply facilities targeted in the Project pump up the water from Chenab well field to T/R through the Inline Booster Pump Station, and then distribute the water to the city from T/R. In addition to the Chenab water facilities, T/R and pump facilities of JBC water facilities are located in the same compound of T/R. In the future, water originated from both Chenab system and JBC system plans to be distributed to the city from the T/R Pump Station in two distribution pipes upon completion of the ongoing project financed by the government of France in contrast to the current single distribution pipe.

Now some of the pumps installed at Inline Booster Pump Station and T/R Pump Station are suspended due to breakdown as they were installed more than 20 years ago and are overdue for replacement. The booster pumps at the Inline Booster Pump Station do not meet the needs for entire available water intake in Chenab well field due to a decrease in pump efficiency and stabilization of supply is deteriorated at T/R Pump Station due to the high frequency of breakdowns of distribution pumps. Some of the pumps are no longer operational due to cavitation caused by the improper location of distribution pumps at the T/R Pump Station, and therefore do not meet the demand for water supply at peak times during the day.

(2) Necessity of Soft Component

The Project will enable the entire available water intake from Chenab source system to be distributed to the city by distribution pump and accordingly water supply environment would be improved. In this case, the amount of pump distribution and number of operating pumps per hour are different from the current operating situation, so that the trial and initial operation after installation will be trained to FWASA members in order to operate and maintain pumps based on the amount of water distribution and number of operating pumps per hour. Although water is distributed to the city after depressurizing it up to around 20 m against the pump head of 45 m in order to reduce water leakage when distributing pump water, it is necessary to appropriately change control of depressurization by valves because the volume of water distribution in the city increases owing to the Project. The current volume of water which is distributed through only Chenab distribution pipes would be divided into the current distribution pipe and the other pipe financed by

the government of France. For the reasons above, the current volume of water flowing through distributing pipes would be changed, the control of pressure is necessary based on volume of water distribution. Even though currently the respective pumps at the T/R Pump Station of Chenab and JBC are operating, technical level is not sufficient enough in order to practice parallel operation with pressure of control of water distribution and control pressures of water distribution owing to converting to the dual system.

It is essential to assist in launching the facility smoothly through the training of parallel operation of Chenab and JBC water supply facilities and dual systematization of main distributing pipe and control of pressure of water distribution as well as the training of the said initial operation in order to distribute water to the city with proper water pressure. Thus, "improvement of operation skill in reduction of water pressure on secondary side after distribution water" as a soft component, will be conducted by the Project.

## 5-2 Purpose of Soft Component

It would be feasible to distribute water to the city with the management of the water pressure through continuous activities practiced by the implementing agency after completion of the Project. Therefore, "Assistance in controlling of water pressure in accordance with the volume of water distribution" will be set as objective of the soft component.

# 5-3 Outputs of Soft Component

The outcome of soft components is "Skill to manage the appropriate reduction of water pressure in secondary side after distributing water is acquired"

# 5-4 Means of Output Verification

Indicators and means to verify the said achievement of outcomes are as follows.

Outputs	Objectively verifiable indicator	Means of verification
Reduction of water	To understand the relationship between	
pressure is	volume of water distribution and water	Comprehension test
appropriately	pressure	
practiced in secondary		
side after distributing	To operate valves for depressurizing in line	Measure for volume of water
water	with the volume of water distribution	distribution and water pressure

Table 1: Means of Output Verification

# 5-5 Activity of Soft Component (Input Plan)

## (1) Besic concept

The person in charge of soft components will implement the soft component to control the water pressure in conjunction with the operation of the JBC distribution pump, and confirm the achievement of outcomes about soft components and submit the completion report of the soft component to Pakistan responsible authorities, implementing agencies and authorities of Japan.

# (2) Summary

The practical training of valve operation and valve regulation in line with the volume of water distribution will be implemented through on-the-job training as soft component. The following table shows input plan and activities.

Output: Reduction	on of water pressure is ap	propriately practiced in secondary side after distributing water
Implementation y	ear: the final year of the	Project
Required skill and	d field of expertise from	Water distribution planning, Experience of management on water pressure
Japanese side		
Current technical level and required		Water is distributed to the city with regulation of valves fixed at present. The
technical level from the Pakistan side		required technical level is operating experience of valve and knowledge of the
		relationship between opening/closing of valves and water pressure.
Trainee		Operation department (valve operation planning(1 P), valve operation (2P))
Method of implem	nentation	On-the-job training
Activities	Preparation of	Drawing up plans of soft components
	documents	<ul> <li>Explaining soft components to FWASA</li> </ul>
		Verifying existing facilities, review of the operating manual of the JBC-based
		distribution pump
		<ul> <li>Drawing up plans and approved by FWASA</li> </ul>
		Drawing up questionnaires and comprehension tests
	Intro du ation	Lecture on theory for water distribution plans, management of water pressure
	Introduction	<ul> <li>Explaining facility outline, facility capacity</li> </ul>
		<ul> <li>Explaining water distributing plans of facilities (Chenab, JBC)</li> </ul>
		<ul> <li>Explaining water volume and water pressure on water distribution plan</li> </ul>
		<ul> <li>Explaining way to reduce water pressure, according to water volume</li> </ul>
		Clarifying roles and areas of responsibility of person in charge
		Conducting questionnaires and comprehension tests
		Planning of valve operation instruction (valve operation planning)
	Planning and	Confirming condition of the existing valves
	drawing up way	Developing plan of valve operation
	of water	<ul> <li>Drawing up operation instruction</li> </ul>
	pressure	
	management	Planning and drawing up records of valve operation
	Guidance for	Practical guidance on valve operation (mainly valve operation)
	valve operation	• Regulating of valves in line with volume of water distribution
	varve operation	<ul> <li>Managing water pressure associated with valve operation</li> </ul>
		• Completing records of valve operation
		Operating by the FWASA staff
	Do • monitoring	<ul> <li>Regulating of valves in line with volume of water distribution</li> </ul>
		<ul> <li>Managing water pressure associated with valve operation</li> </ul>
		<ul> <li>Completing records of valve operation</li> </ul>
		Drawing up valve operation instruction
		Reviewing the records of valve operation
	Verification of	Confirming through valve operation
	outcome and	Conducting comprehension tests
	recommendation	
	to	Recommending to implementing agencies
	implementation	
	agency	
Implementation	Person in charge	Japanese consultant (1P)
resource	Period	Local: 1.00 M/M

Tahla	2.	Activitios	of	Soft	Com	nonent
I able	Ζ.	Activities	OI	SOIL	COIII	ponent

Type of Outcome	Valve operation guidance, result of questionnaires to the staff of implementing
	agencies, final report (completion report of the soft component in English),
	completion report of the soft component in Japanese, documents to verify
	implementation of activities (inclusive of local photos)

# 5-6 Procurement Methods of Implementation Resources of Soft Component

To manage the pressure of water distribution appropriately by controlling valves in line with the volume of water distribution is required in order to implement water distribution in accordance with the plan into the future. Since valve control to manage the pressure of water distribution in accordance with the existing facilities, and determination of the pressure of water distribution in accordance with condition of facilities and volume of water distribution requires the advanced knowledge and skill, the Japanese consultant will be assigned to the soft component. Duty, position and expertise for each staff under the FWASA operation system are clarified so that the person in charge of the soft component of FWASA shall be assigned individually. A Japanese consultant is assigned as a person in charge of water pressure reduction.

# **5-7 Implementation Schedule of Soft Component**

Soft components are implemented upon a trial operation of the pump facilities after completion of the construction. Outline of the implementation process is as follows.



Table 3: Implementation Schedule of Soft Component

# 5-8 Output Materials of Soft Component

Output of soft component is as follows.

Item	Submission to	Remarks
Final report (completion report of soft component in English)	Client, JICA	
Completion report of soft component in Japanese	JICA	
Documents to verify implementation of activities (inclusive of local photos)	JICA	
Result of questionnaires to office staff of implementing agencies	JICA	
Valve operation guidance	Client, JICA	Refer to attached sheets

# Table 4: Output Materials of Soft Component (Draft)

The guidebook for managing water pressure is an effective document to enable the acquisition of basic skills and knowledge in the soft component. They are to be compiled in Urdu as well as in English to be used for soft components.

# **5-9** Responsibilities of the Implementing Organization of the Pakistani Side

The following activities are needed to be continuously implemented by Pakistani Side in order to achieve the goal of the soft component.

- To secure personnel and training facilities required for soft component
- To keep the staff trained in the soft components employed at the same facility in the long term
- To comply with way to reduce water pressure in line with valve operation guidance

# Annex 1

# Valve Operation Manual (Draft)

The plan of valve operation manual includes the following items.

Item	Contents		
Measures for valve	Appointed valve operation planning, valve operation		
operation management	Responsibility of the person in charge		
	• Supervision, operation, guidance and reporting of the entire valve		
	operation		
	• Operation of the valve, industrial accident prevention, guidance and		
	training of workers		
	Preparation of valve operation records		
Plan of valve operation	• Short-term fluctuation of water demand, method of operation for		
	water pressure management and valve operation associated with the		
	seasonal variation		
Implementation of valve	• Confirmation of valve operation (Operation date, Valve No,		
operation management	Distribution volume, Water pressure, etc.)		
Emergency measures	Contact system. Response to factors		
Preparation of	Completing records of value operation		
documents, account			
books			

# Table 5: Valve Operation Manual (Draft)

**Appendix 6** 

References

# 6. References

No	Title	Type Book/Video/Photo/Etc	Original/Copy	Issuing Institution	Year
1	Presentation on WASA(FDA) Faisalabad	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
2	Presentation on Project for Extension of Water Resources for Faisalabad City Phase-I (French Funded Project)	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013. 1
3	Presentation on Project for Extension of Water Resources for Faisalabad City Phase-I (French Funded Project)	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013. 7
4	Arterial Main Additional Calculation Note	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
5	Extension of Water Resources for Faisalabad City Phase-I, Modified PC-I	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2009
6	Plan of Arterial Main	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
7	Pakistan Economic Survey 2012-13	Book	Сору	Ministry of Finance	2013
8	Faisalabad Environmental Infrastructure Master Plan Study Final Report	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	1993
9	Contract 12W-A, Chlorination Facilities	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2011
10	Contract 12W-B, Inline Booster Pump Station	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2011
11	Contract 16W, Terminal Reservoir Pump Station	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2011
12	Electric Bill for JBC Booster Pump Station and TW	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
13	Electric Bill for ADB Booster Pump Station and TW	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
14	Electric Bill for TR (ADB and JBC)	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
15	Executive Summary of Annual Plan_2012-2013	Book	Сору	Government of Pakistan	2012
16	Punjab Drinking Water Policy	Book	Сору	Government of Punjab	2010
17	Monthly Progress Report	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
18	Summary of Development Budget	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
19	Water Supply Sources, Current and Proposed	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
20	Connection Details Domestic, Commercial and Industrial	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013

# Appendix-6 References

No	Title	Type Book/Video/Photo/Etc	Original/Copy	Issuing Institution	Year
21	Tariff for Water supply	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
22	Non Development Budget	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
23	Operational Receipts	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
24	Abstract of Posts Budget	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
25	Budget Targets and Operating Expenditures	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
26	Concept Clearance Paper for the project	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
27	Proposed Tariff	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
28	Summary of Non Development Budget	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
29	Pump Operation Record of Chenab TW	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2012
30	Pump Operation Record of Chenab Inline Booster Pump Station	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
31	Pump Operation Record of JBC Inline Booster Pump Station	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
32	Pump Operation Record of Terminal Reservoir	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
33	Location Map of Collector Main	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
34	Location Map of Transmmission Main	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013
35	Building Code of Pakistan Seismic Provision - 2007	Book	Сору	Water and Sanitation Agency, FDA, Faisalabad	2013

# Appendix 7

**Other Relevant Data** 

# 7. Other Relevant Data

- (1) Topographic Survey Result
- 1) Plan View : Chenab Inline Booster Pump Station



# 2) Plan View : Terminal Reservoir



3) Lateral Profile : Terminal Reservoir



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Geographic Survey Result

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#### SUBSURFACE EXPLORATION SURVEY REPORT

FOR

#### THE OUTLINE DESIGN STUDY ON THE PROJECT FOR REPLACEMENT OF PUMPING MACHINERY AT INLINE BOOSTER PUMPING STATION & TERMINAL RESERVOIR IN FAISALABAD IN THE ISLAMIC REPUBLIC OF PAKISTAN

Consultant

### M/s Kokusai Kogyo Co., Ltd. Tokyo Japan

SEPTEMBER 2013

# NOON GEO TECH

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LOCATION OF BOREHOLE POINTS



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# SUBSURFACE EXPLORATION SURVEY

THE OUTLINE DESIGN STUDY ON THE PROJECT FOR REPLACEMENT OF PUMPING MACHINERY AT INLINE BOOSTER PUMPING STATION & TERMINAL RESERVOIR IN FAISALABAD IN THE ISLAMIC REPUBLIC OF PAKISTAN

#### A. INTRODUCTION

M/s Kokusal Kogyo Co., Ltd., Tokyo, Japan have desired a design study on the project for Replacement of Pumping Machinery et Inline Booster Pumping Station & Terminal Reservoir in Faisalabad in the Islamic Republic of Pakistan, to improve the facility of dinnicing water for the inhabitants of Faisalabad City. The site is located at Chak 7 in Faisalabad city.

Therefore, the services of *M/s* Noon Geo Tech. Labore had been hired for the performance of in-situ test i.e. Standard Penetration Test for N-Value. The field work was carried out during the month of September 2013.

#### B. SITE VISIT

The site was visited on 06.09.2013. The locations for test were marked by the consultant's representative Mr. Datsuke Sakamoto Professional Engineer, in

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the presence of M/s Kenji Shinoda Civil Engineer and Takeshi Abe Civil Engineer from M/s Kokusai Kogyo Co. Ltd., Tokyo, Japan.

Engr. Muhammad Adnan. Assistant Director WASA and representative of N/a Noon Geo Tech were also present during site visit and it was decided that the site would be explored on 07.09 2013 and 68.09 2013.

#### C. SCHEDULE OF FIELD WORK

Two boring points for SPT (Point No.1 & 2) were drilled on 07.09/2013 and the other two boring points were explored on the next day i.e. 08.09/2013.

#### D. SCOPE OF WORK

As per TOR for Subsurface Exploration Survey at site. following scope of work was given by the Consultant:

 Execution of four (4) boreholes up to maximum depth of 10-meter depth in overburden soil by hand auger trilling method including backfilling of boreholes to their original position.

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- 2 To perform SPT's at 1-meter interval up to the drilled depth.
- 3. To perform density test
- 4. To log soil strata of boreholes as per ASTM D-2488
- 5 To locate water table:
- 6. Preparation of Final Report

#### E. FIELD INVESTIGATIONS

The field investigation was carried out on 07.09.2013 and 08.09.2013, under the supervision of Mr. Takeshi Abe Civil Engineer on both days.



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#### E-1 DRILLING

As per recommended practice of ASTM D-420, the site was explored with percussion method. The holes were advanced by chopping the subsoli and then cleaning it by balling out the soil with the baller attrached with the percussion string.



#### F-1 METHODOLOGY

Standard Penetration Tests (SPTs) were performed in the boreholes in accordance with ASTM D1588

The exploratory borings were dilled using hand auger driling method

#### F-2 OBJECTIVE

The objective of this test is to ascertain the resistance afforded to the penetration apparatus in order to obtain an estimate of the in-situ properties. The test gives valuable information about the degree of compactness of the soil As per TOR, this test was performed up to maximum 10-meter depth at

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an interval of 1-meller. The N-values of strata are given below as well as on logs (Annekure-1).

BOREHOLE-1

Depth (meter)	SPT N-Value	Compactness	Consistency
+	4+5+5=10	1.000	Skift
2	2+3+3=8	i	Firm
3.	3+4+5=9		Siff
4	5+4+6=10	-	Stiff
5	7+9+10=19	Medium Dense	1
6	7+8+10=18	Medium Dense	
7	8+9+11=20	Medium Dense	
8	9+9+10=10	Medium Dense	
9	8+11+12=23	Medium Dense	
100	9+11+13+24	Medium Dénse	. ~ -

BORE HOLE - 2

Depth (meter)	SPT N-Value	Compactness	Consistency
1	3+4+5=9	· · · · · · · · · · · · · · · · · · ·	Shift
2	3+3+5+8	1	Stiff
3	3+4+6=10		Stiff
4	3+4+5=9		Stiff
5	5+7+8=15		Siff
ē	4+5+7=12		Sill
7	7+8+10=19	Medium Dense	1 T. P
a di	6+7+9=16	Medium Dense	1
9	6+8+10=18	Medium Dense	81
10	8+10+12=22	Medium Dense	1000

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#### Some Staly - Redemant of Parsong Heltony Facilities

#### BORE HOLE - 3

Depth (merler)	SPT N-Value	Compactness	Consistency
10	2+3+3=6		Film
2	4+5+6=11	-	Shift
3	3+5+6=11		56#
4	3+5+7=12	1.00	.50/1
5	7+10+11=21	Medium Derisie	1.1
Ê.	7+9+11=20	Medium Dense	1.14
7	8+10+11+21	Médium Dense.	
8	9+11+12+23	Medium Dense	-
9	10+12+13=25	Medium Dense	
1.0	10+11+13=24	Medum Dense	

#### BORE HOLE-4

Depth (meter)	SPT N-Value	Compactness	Consistency
-1-	3+4+5=9	-	Eatt.
2	3+5+6=11	-	.(Stillf
3	4+5+6=11	Medium Dense.	-
- 4	5+7+7+14	Medium Dense	-
5	5+8+9=17	Medium Dense	
5	6+10+11=21	Medium Dense	1.12
7	7+9+11=20	Medium Dense	1.2
8	8+11+12+23	Medium Dense	÷ -
9	9+11+13=24	Medium Dense	1.1
1.0	10+11+13=24	Medium Dense	. ×

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#### Brige Study - Reelacement of Parsung Machinery Finialabil

#### G. BULK DENSITY, FIELD M.C. MAGE

The samples oblicated from bareholes have been subjected for determination

of their bulk density and field mosture content. The values are given below:

Sr. No.	Bore Hole No.	Depth (meter)	Bulk density (g/cc)	Molsture Content (%)
1	4	55	1.534	1.87
2	2	5.5	1.957	a.32
3	3	4.5	1.611	2.14
*	3	3,5	1.525	2.03
-5	4	5.5	1.593	1.94

#### H. WATERTABLE

The water table at proposed site was not encountered up to drilled depth from the existing ground level during September 2013.

#### 1. BEARING CAPACITY ANALYSIS

The consultant has desired to calculate allowable bearing capacity at 5-meter depth. Taking into consideration the width/depth (8/D) ratio, it is assumed that line foundation will be moderately deep where strip or column fooling may become uneconomical for load spreading. Further it has been desired to calculate fooling on the basis of N-Value. The formula taken from 'Bowl' Book 'Foundation Analysis & Design' (5" Edition) for 25mm, 40mm, 50mm & 60mm settlement. The following relation has been adopted to calculate allowable load for Raft (boling.

NOON GEO TECH, LABORE

#### Serie Staly - Rolement of Paragong Hicking Facilitati

10.1	N=1/0.08	(AH.,/25) kd (kpa)
Where	1.1	Constant on the second
· 9a		Allowable bearing load (kN/m <sup>2</sup> ) TSF
Ne		Corrected average SPT N-value = 13
AHS		Desired settlement
kd.	=	1 + 0.33 D/B ≤ 1.33
D	=	Depth of fooling = 5m = 16.4 feet from EGL
E	12	Width of footing
	£	20 feet (minimum dimension assumed)
Rw		Water table correction = Rw*
	Where Q <sub>1</sub> N <sub>1</sub> AH. kd D B Rw	= N <sub>24</sub> X0.08 Where 9 <sub>0</sub> = N <sub>12</sub> = N <sub>12</sub> = Kd kd = L E = E = Kw = Kw = Kw = Kw = Kw = Kw = Kw

Depth of	Corrected	kd	Allows	ble load : (T)	il (q_) Sel SF)	tiemant
tooting (D)	N-value		25mm	40mm	50mm	60mm
5 meter (16,4-/1) below from EGL for EH-1, BH-3 & BH-4	14	1,4	3.26	3,64	4.58	5.47
5 meter (16.4-1) below from EGL for BH-2	-12	14	210	3.36	4.20	5.04

1 TSF = 107.2512 kN/m

0.

Note: In case water table is close or within the foundation influence zone or there is excessive seepage of water through footing, the allowable load must be considered half of the calculated.

#### J. PRECAUTION

Following safety measures be taken:

 The compaction of foundation trenches must be ensured to a minimum level of 95% modified proctor in accordance with ASTM/AASHTO Standards prior to the placement of foundation

8

NOON GEO TECH, LAHORE

#### Tanap Study - Restacement of Parsang Machinery Frieddorf

The area around the building should be suitably drained, ingress of moisture from any source will be harmful to the foundation. There should be no leakage of water and severage lines. These lines should be sufficiently away from the foundations.

3) The foundations should not be laid on any loose packet or filing.

DIRECTOR AN NOON GEO TECH

# **BORING LOGS**

ANNEXURE-1

NOON GEO TECH, LABORE 9

-				BORING L	OG				
			. IOB D	ESCRIPTION		INT NO. 1	Sabert No. 187		
THE C	UTL.D	NEDES	ION STU	DY ON THE PROJECT I	FOR	W.T. Nil Lagenthy: M. Mai			
REFIL	REPLACEMENT OF PUMPING MACHINERY AT INLINE INVESTIGATION INTERNATION INTERNITIAL DREPUBLIC				VOR	Date of State	67.00 2013		
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			4067	DESCRIPTION		RR DO. A	Sheet No. Laf		
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Second Study - Replacement of Renging Machiner y Provident

















# **PICTORIAL VIEW**

ANNEXURE-II

NOON GEO TECH, LAHORE

14

#### Denier Stady - Replacement of Parapage Mathematy Laughstrall











**Sector Study-Rectorment of Pumping Mediatery Fatelished** 



Beitan Bady - Replacement of Persons Machinery Insubball











NOON GEO TECH, LAHORE 17

Group Daty-Barlaneout of Person Method Visiolated













18

NOON GEO TECH, LAHORE













Decas Daty - Reducement of Persons Mechany Valuation

BORE HOLE POINT NO.4













20 NOON GEO TECH, LAHORE



A - 55

#### Design Durfy - Replacement of Funging Mathematy functional











21 NOON GEO TECH, LAHORE

#### PUMP OUT TEST ANALYSIS REPORTFORTUBE WELLS

#### IN FAISALABAD WELL FIELD

#### L INTRODUCTION

Party out toys, were carried out on four existing take wells,  $Z_1 X_2$  (3 and 23 of Fanalahool weight well-field. The tests are:

- Constant discharge sett for a period of 4 hours. Water levels charge the text were observed to a logile observation well located as a distance of 4.0 meters.
- a) After four hour parquing, recovery phase started and during this phase water levels were observed in the observation well.
- (a) A two test was also carried on the care well. Oursion of each step was one hour. Water levels could not be measured within the sube well. Powever, water levels, claims the test, were bicaved in the discovery well.
- any grantee phase of all the table well, water levels were attacknessed as a nearby outer well to estimate the interference effect.

Objectives of the tests were to estimate

- · Transmissibility of the squarks,
- mphysials conductivity of the search manual.
- Montage.coef%clern;;;
- Rielliss of Influence.

#### 2. PREVIOUS STUDY

During the well espectraction period, puttp out test data of Well-2 was analyzed, hereft) of the analyzed are presented or

4	Well Number -	Well-G2	WVH-13	
<u>ii</u> -	Date:	Mar-10-1988	Am-Dii 1901	
10 U	Depthys/Will.	318.9	526.9	10
112	Distign discharge:	406	406-	m'/te
vi -	Screenlength:	2.69	-19.4	. 19
41)	Screen diameter:	2.80	200	2905
141	Szrelen máterial	\$8.5peel	55 5044	
0.00	Static mater livel:	2.54	4.93	· · · · ·

1.3

me Banany

149	Tist dubarge	-10	510	in/hr
-0.	manging water level after two hours.	8.25	408.51	171
- 60	Drawdown after rest huurs	\$,75	5.15	- 10
197	Spocific impairing:	89.2	26.43	ni/hrm
<b>JII</b> .	Transmissibility:	試動的	17,633	rit/libre
mi)	Hydraulic conductivicy.	E100119	0.00413	infus:
4y)	Physicandic conductivity.	203	357	ra/dby

#### I. TUREWEIN DATA

Detailed pump coll test data for the testaid wells is attached as Appendix-A. Saless: leaves e The less an previouslow:

- () Salimi fortures of the constant purpoing becture given in Table 1.
- III Select Matures of the step-settlern alves in Table-2.
- (ii) Www linvi observation dats for the constant discharge tests is given in Table 1.
- iv) Water livel observation data for stan tests in premin Table-4.
- v) Weter level observation data, during recovery photos, is given in Table 5

#### 4. PUMP OUT TEST ANALYSIS

The pump tiest data given above was analyzed by the following excludes:

- () Constant discharge test: (Pumping Picale); Thes trave insisting method and Cooper (acclusivage line method.
- ii) Constant discharge test (Recovery Place): Straight line method.
- Step Fets (Step I and/). These mave-mentione method and Cooper-accels straight linemethod.

#### 4.1 Theis Curve-Matching Method

Orawdown in a imple full period agained, for the advectory flow in confined and unconfined againers that are homogeneous, isotropic and infestiv in the boncurcal workel, is given by the following relationating developed by their (1935).

Continued Cases

THE OWNER ADDRESS OF TAXABLE PARTY.

(H-bw)-Q/(4n3)\*W(u)

(Fe.1)

 $\geq$ 

#### Whene:

L.

(H-hw8)	drawdown (i)	in the well
4		

- = Discharge of well Q = r25/4nTt
- = transmissibility of the aquifer т
- =time of pumping τ.
- W(u) = Theis well function and is expressed by the following series:

W(u) = -0.5772-in(u)+u-u <sup>2</sup> /(2*2!)+u <sup>1</sup> /(3*3!)-u <sup>4</sup> /(4*4!)	(Eq2)
Relationship for drawdown in an observation well at a distance "r" from the pur	nped well is:
$s=Q/(dxT)^*W(u)$	(Eq.3)
After rearranging:	
$T = Q/(4\pi s)^{*}W(u)$	(Eq.4)

Relationship for storage coefficient "S" is:

 $S = 4TEu/r^2$ (Eq.5)

Analysis of the constant pumping test data, by using Theis method, is given in Graphs 1 to 4. Similarly, analysis of the step pumping test data, by using Theis method, is given in Graphs 5 to 8.

#### 4.2 Cooper-Jacob Straight Line Method

The value of W(u) is the sum of an infinite series. When the value of "u" is small, less than 0.01, the higher order terms of infinite series are negligible and can be ignored. With the Cooper-Jacob assumption, drawdown is:

(H-hw)= Q/4nT*(-0.5772-in(u))	(Eq.6)
(H-hw]= Q/4nT * In(2.2.5Ts/r <sup>1</sup> 5)	(Eq.7)

The result of this simplification is that the integral expression of the Theis equation is replaced by a much simplefunction. The other benefit of this simplification is that the plot of time on x-axis as a logarithmic scale and drawdown on the y-axis as a linear scale give straight line which is east to analyze.

For the estimation of transmissibility, the following relationship is used:

T = 2.BQ/(4nAs)
-----------------

3

(Eq.8)

Oute: 30-10-2963

#### Where:

For storage coefficient:

As is drawdown per log cycles of plot

#### 5 = 2.25Tt\_/r<sup>21</sup>

Where:

(Eq.9)

(Eq.10)

't,' is time for zero drawdown in the observation well

'r' is the distance of observation well from the pumped well.

Analysis of the constant pumping test data,by using Cooper-Jacob method, is given in Graphs 9 to 12.Similarly, analysis of the step pumping test data, by using Cooper-Jacob method, is given in Graphs 13 to 16.

#### 4.3 Theis Method Using Recovery Data

Transmissibility can be estimated from the following relationship by using recovery data:

T = 2.3Q/4ns" log(t/t')

Where:

Q is the discharge of well during pumping phase-

t is time since pumping starts

t' is time since pumping stops

s' is the residual drawdown

Analysis of the constant pumping test by using recovery data is given in Graphs 17 to 20.

#### 5. PUMP OUT TEST RESULTS

Aquifer parameters estimated through the above stated methods are given in Table 6. Summary of the results is:

Well Number 2: Transmissibility values range from 16394to 50420 m<sup>2</sup>/day. Hydraulic conductivity is worked out after dwiding transmissibility values by aquifer thickness which is assumed to be 50 meters. The hydraulic conductivity values range from 328 to 1006 m/day. Values of estimated storage coefficient range from 8.75E-09 to 1.34E-03.

Well Number & Transmissibility values range from 18123 to 33824 m<sup>2</sup>/day. The hydraulic conductivity values range from 362 to 676 m/day. Values of estimated storage coefficient range from 5.80E-1.0 to 5.84E-05.

Data collected during constant pumping is not reliable as there is too much fluctuation of drawdown.

4

Oute: 30-10-2013

Well Number 13: transmustating values range from 19411b 25782 m<sup>2</sup>/Hey. The indexeloc conductions values completely values from 385  $\simeq$  510 m/stay. Value; of estimated storage coefficiency large from 0.011 (10 to 0.211 0.021).

Well Number 23: Transmutibility values range twee 12415as 63245 m/3ay. The hydroxic conductivity values range from 648 to 1225 m/day. Values of estimated storage coefficient range from 9.08-11 to 1.027-08.

Data collected during itep test shows a decreasing drawdown as the pumping time increases.

6. RADIUS OF INFLUENCE

To check the radius of influence of the paraging wells, waise ferrers in two deservation points an various distances, was observed while paraging was performed in the well. Observations he no indicate any interference effect as a distance of \$20 and \$200 misses.

7. CONCLUSIONS

⊳

59

Conclusions derived from the pump out test analysis ani-

Transmissibility: it ranges from 16394 to 63749m; /day with a mechan value of 2491.9 m²/day.

Hydraulik Constuctivity, Transmoultity, divided by squites thiskness issuested equal to well screens length, 3D means) some out to be 3DE to 3DE anything with a measure value of Mater/May, which in eSS unit to MO2001/sec. Hydrocedogatal investigations were samed our by WAPCA, in Freque Region, with the fully of US Geological Survey. Forty wire pump-ratification our by WAPCA, in Freque Region, with the fully of US Geological Survey. Forty wire pump-ratification were carried out during measures scrites, hydroxed space of 00056 hybrid. The Matha Dash area region from 0.0007 to 0.1001/Joce with an average value of 00056 hybrid. The Matha Could conductivity values estimated internet the same scrites in outside of the range estimated by WAPCA.

Storage Coefficient: This parameter ranges from 9.000-11 to 3-20103, which indicates bolfored againer conditions. During Netrogenhogical investigations carried cauchy WAPGA in Pungah Region, to was observed that Pungah againers behave as contined agains, during early time of parameter, the abor there to four days of pungang, their againers behave as an occurrent again as and their specific well of thebas builds again was strained and four a 33 with an over-age value of 0.13

Specific Webil its the ratio of the volume of water a rock or sail will yield by gravity dramage to the volume of the rock or sail.

Surveye Conflocence or Spoceshop in the column-of water an appliar mission memory taken into domain per one confloce area of the applice per one change in head, in an encontrated applier, the domain applicant is equal to the specific yield. Interference-Between Welliel's check the nature of Instance of the pumping will's water haves inwate observation points at version distance, was observed while polyamy was performed in a dwa well Observed data indicates that there is no initiation of the between wells.

Well Losses and Well Efficiency: Water Inveli could not be matured workin the minwelli. Therefore, well losses and well efficiency careers be estimated.

Ratius of influence: The traffics of influence of a partners well, can be estimated if drawninen data for three or more than three observation wells, located at different distance. It available, for the low-rist local drawnlowin is available to only one observation well. Therefore, index of influence onned in tweekd inst/new this lots.

(f.q.11)

However, by the invict Schard, equilibritions estimate can be made the equilibrities

#### 8 = 3000 \* 010 \* (K)<sup>9-1</sup>

Whatte.

R is Particle of at/Avence in treaters,

B0 is drawdown in the well in meters.

Kit the hydraulit canductiony in myse

Assuming that drawdown within the well ranges between 1.0 to 2.0 evelors. By applying Schards, equation, values of estimated radii of informate are:

Serial Number	(m/day)	K (m/sec)	00 (m)	R (m)	R (ft.)
- I	353	100041	0.50	*	313
1	353	0.0041	1.00	192	629
1	353	- ROME	1.50	2.68	544
1	353	0.0012	2.00	384	12598-
5	458	0.0058	0.50	114	3/4
5	458	0.0058	1.00	7,218	747
1	-438	0.0058	1.50	842	3325
8	- 458	0.0058	2.00	456	1/194

#### FINAL REMARKS

а.

THE PROPERTY.

- Buring pump out bests, drawdown anal obtevend in an observation well booted at a distance of 6.0 manual.
- Orawdown written the well could not be observed as there was no space-available to lower the mediance device.
- Drawalown: observed search to be on lower side with the result; the estimated values of transprintibility and hydraulic conductivity are too high.
- (v) So where any tax has extend for furthern densers, shares it is scenario and them, the memory values, of transmissionality and hyperaultic consideration y estimated hereats, the second.

Test 10410 4111

v) Ourning the semicrosoftem of these tokensells, parent sat, teach over 5 arrend instant WHM 02 and WHM 15. The results of these teacs are represented and are done to the removant values assumated during the charrent tests. Therefore, there results are able to advant for timere analysis for comparison of previous and record results are able to advant for timere.

Well fillenbor	Well-92	Well-13	
Teantanissibility (1968)	10,024	EG4,5C	m <sup>2</sup> /chuy
Transmerublic y (minimum for 3.013)	16.094	39,413	m <sup>1</sup> /clay

#### TABLE-1: DONSTANT DISCHARGE TEST DATA

Well Number,	~	.1	- 8	. 19	-23-
Text Claim		tie 04-2/19	D016-2013	1011-08-221.9	0/110/2213
Dersign DiscRyargev	10.62	4.0	1.0	4.0	- 6.0
Test Quilwege (Q)	m/how	330	258	345	1410
Thickness of Aquilers	- 111	19	529	- 30	32
Length of Weil Screen (LS)	10.	48.6	48.6	48.8	- 46.0
Stack Warrer (www)		51.07	16.62	28.61	26.18
Pumping Wilder Lavold	- 10	34.28	16.95	59,53	16.52
Maximum Drawdown	10	(136	0.00	3.79	12.14
Test Duration:	ministra	240	240	240	7/0

#### TABLE 2: STEP DISCHARGE TEST DATA

West faundary		1	8	13	23
Test Dale		6:04-2013	Dct-6-2013	Der db 2813-	4155-01-mD
Design Discharge	OUNCE	4.0	4.02	43	AIF
Text: Dissbarge (S2)	m/hosa-	709	182	150	- 112 -
Thickness of Aquiter.	101-	51	- SP	523	- 50
Length of Well Screen (c.).	es :	18.8	46.8	48.8	-48.8
State Water used.	es.	21.86	10.57	35,00	26.18
FumpourViali/Leon	1.01	26.07	16.79	19,07	16.38
Maximum Orawdown	m.	0.71	0.12	0.29	0.10
Tell Duridant:	minutes	60	60	60	167

1000 (T\$10.001)

#### TABLE-3: WATER LEVEL DATA FOR CONSTANT PUMPING TESTS

Elapsed Time	Drawdown (meters)					
(min)	TW-2	TW-8	TW-13	TW-23		
0	0.000	0.000	0.000	0.000		
1	0.180	0.270	0.540	0.280		
2	0.220	0.290	0.560	0.285		
8	0.235	0.310	0.570	0.280		
4	0.235	0.310	0.580	0.280		
5	0.250	0.310	0.590	0.285		
6	0.260	0.310	0.590	0.285		
7	0.270	0.310	0.590	0.285		
8	0.275	0.320	0.600	0.290		
9	0.275	0.320	0.610	0.290		
10	0.280	0.320	0.610	0.285		
12	0.280	0.320	0.620	0.290		
14	0.185	0.320	0.620	0.290		
16	0.285	0.830	0.620	0.300		
18	0.290	0.330	0.630	0.300		
20	0.298	0.330	0.630	0.300		
25	0.300	0.330	0.630	0.300		
30	0.305	0.330	0.630	0.305		
35	0.310	0.330	0.640	0.310		
40	0.315	0.320	0.640	0.315		
45	0.320	0.830	0.650	0.310		
80	0.295	0.310	0.650	0.310		
55	0.295	0.370	0.660	0.310		
60	0.295	0.850	0.660	0.310		
70	0.300	0.370	0.670	0.310		
80	0.300	0.380	0.670	0.315		
90	0.330	0.370	0.670	0.320		
100	0.330	0.325	0.680	0.320		
110	0.330	0.325	0.680	0.320		
120	0.310	0.330	0.690	0.320		
120	0.310	0.330	0.690	0.320		
140	0.315	0.330	0.690	0.325		
160	0.320	0.830	0.700	0.325		
180	0.320	0.330	0.7010	0.325		
200	0.320	0.330	0,700	0.335		
220	0.380	0.330	0.700	0.335		
240	0.560	0.330	0.700	0.340		

9

#### TABLE-4: WATER LEVEL DATA FOR STEP PUMPING TESTS

Elaipsed Time		Drawdow	m (motors)	
(min)	TW-2	TW-8	TW-13	TW-23
0	0.000	0.000	0.000	0.000
1	0.160	0.190	0.270	0.080
2	0.160	0.190	0.270	0.210
8	0.160	0.190	0.260	0.160
4	0.160	0.190	0.260	0.140
6	0.165	0.190	0.260	0.120
8	0.165	0.190	0.270	0.110
7	0.170	0.190	0.270	0.110
8	0.170	0.190	0.270	0.110
9	0.170	0.190	0.270	0.110
10	0.170	0.200	0.270	0.110
12	-0.170	0.210	0.270	0.110
14	0.175	0.210	0.275	0.100
16	0.175	0.210	0.275	0.100
18	0.190	0.220	0.275	0.105
20	0.190	0.220	0.280	0.110
25	0.190	0.220	0.280	0.100
30	0.195	0.220	0.290	0.100
35	0.200	0.225	0.290	0.100
-40	0.200	0.225	0.290	0.100
45	0.200	0.225	0.290	0.100
80	0.205	0.230	0.290	0.100
55	0.210	0.230	0.290	0.100
60	0.210	0.220	0.290	0.100

10

Date: 30-10-2953

Oate: 30-10-2013

#### FABLE-S: WATER LEVEL DAWA DURING RECOVERY TESTS

Elécised Time		Residual I	a welowe	
(jewn)	199-2	TWIS	TW-13	TW-23
- n -	0.36G	018.0	0,700	0.940
1.14	0.205	8.560	0.160	0.1.10
	0.165	6111.0	0.130	0.599
2 -	0,180	0.090	0.120	0.070
	0.115	TE COMPLET	0.120	11070
8	0.110	0.0900	0.1220	0.060
d.	0,100	0.2563	0.080	0.060
	p. 895	0.080	0.090	0.060
5	0.090	G-80.0	0.050	0.060
	0.065	0,40.0	0.080	0.050
1.0	0.060	0.050	0,050	0.050
H	0.075	0.050	0.070	0.050
	0.070	0.050	0.060	0.040
10	D.065	0.040	0.060	0.040
10	0.065	0.0HD	0.050	0.040
¥0,	D-062	6040	0.050	0.040
-54	01.050	0.090	0.050	0.030
	0.045	0600	0.050	11037
34	0.040	CHEO .	0,040	0.070
-40.	0.025	0.020	0.940	0.020
3.0	0.010	13.0320	0.030	0.020
-50	0.075	13-090-0	0.080	0.020
-66	0.083	11.010.0	DINN	D D UB
	0.001	3 000	0.080	10 0 0 0

#### TABLE 6: PUMP OUT TEST RESULTS

Vei Number	Meshad Used	Transmissibility 6m2/day)	Hydraulic Conductivity (m/day)	Stonage Ecofficient
防刑-2	Constant discharge-Teels	30,420	10018	8.751-09
Well 2	Constant destinange-Geogen I auch	18,4398	366	6.29 E (B)
Well-2	Constant doublege-Recovery	16,794	378	-4-65 C-06
Well 2	9/p the Tiers	25,187	509	4376.00
Well 2	Step des Geograniacolt	22,028	+42	1.3411-03
Mean		22,028	441	
Well-8	Constant discharge Them	33,824	-676	3.676.00
Well 8	Constant decharge-Corowr-mosh	26,814	596	4.896.107
Well-E	Constant discharge Receiping	18,215	364	1.44 E-199-
Well-E	Step and Theirs	33.354	995	5.895-19
Well-8	Step and Quagter-lacutt	18,123	362	- 5.84 E 05
Medri		\$1,384	668	
Well-13	Constant discharge Treta	21,995	4823	417618
Well-13	Constant discharge Coloper (alsob	72,193	-648	4,64,5-08
教師は	Constant discharge in-sovery	现相目	206	6.23.6-02
Ww#-13	Stop and West	25,783	116	4.485-10
Wef8-13	Stip art Ecopin Molth	24,1/92	494	1.606-09
Mean		21,005	480	
Well 23	Constant discharge Them	38,3/1	1129	1.02 5-06-
Well-23	Constant dochware-Compressanth	61,389	1875	3.611-022
Wei#-23	Compart discharge Incounty	32,413	646	9.98-8-31
W01-23	SUP SHE THERE			-
Wyli-7.1	Strip text-Cauper-lacets	-		~
Mean	the second second second second second second second second second second second second second second second se	58,970	1179	

#### FAISALABAD PUMP TEST THEIS METHOD FOR CONSTANT PUMPING TEST



#### DATA

UN IN			
Well Humber	2		
T ost Date	043/04-2013		
Design Descharge	4.0	CLIPPO	
Test Descharge (G).	830	mar	
Trackreas of Acader	150	m	
Length of Well Screen (Ls.)	50	70	
Static Water Level	13:102	m	
Pumping Water Level	14.28	100	
Maximum Drawdown	0.38	m	
Twist Durithom	240	minutery	
RESULTS			
Match Point			
14	1,000+10		
VV (1AJ)	22.0465		
Tornal	t0+6	1007	
Tresi	1.8725-401	11	
Drawdown (s)	0.081	PT1 -	
Transmissibility			
Distance of Prezometer	4.0	m	
Transmissips			
Frankrikesiksiky	2101	m'ne	
Transmissikiliky	60,420	militay	
Hydraulic Conductivity	1,008	81.0	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#4Tbulk		
Storage Coefficient	8.75E-09		

#### FAISALABAD PUMP TEST THEIS METHOD FOR CONSTANT PUMPING TEST



#### DATA

Provide the second seco			
Viail Number			
Tand Dake	<table 2012<="" td=""><td></td><td></td></table>		
Design Discharge	4.0	GUIDRO .	
Two Division (G)	258	m 10	
Thickness of Against	160	100	
Length of Well Screen (Le)	60	101	
Statio Vider Level	16.62	10	
Framping Weber Leviel	16-95	100	
Musimum Drawdown	E 33	70	
Tring Overleight	240	mercen	
RIESULTS			
Match Point			
1Au	1.00+10		
WY CAU.	23.4486		
Tarres.	1.0.0	121071	
Tamo.	10-3187	hr.	
Detavdown (s)	0.321		
Transmissibility			
Distance of Registration	40	- 10	
Transmeakaity			
Transmissipady	1409	="0"	
Transmissionsy	33,924	military	
Hydraulic Conductivity	676	15/0	
	#4 Thut?		
Storage Coefficient	5.87E-09		



#### DATA

11.000
(1.5e)
11000
mitter
122
m
- 111 -
(11)
100
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nr.
.m.
m
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montey
01.62



# Appendix-7 Other Relevant Data

# FAISALABAD PUMP OUT TEST DATA CONSTANT DISCHARGE TEST COOPER-JACOB METHOD

#### -

UATA		
Woll Number	2	
T4ol Dable	Sch 04-2013	
Delagh Dischlege		3,664
Tell Discerge (Q)	-2.37	m*Wrowr
Thicsnet) (Adquier	150	14
Langth of Well Screen (Lt)	612	10
State: Water Lawy	4.5.92	1.00
Puercing Water Level	14.28	1.16
Maximum Drandomit	0.36	
Tell Dunition	240	mindes-
RESULTS		
Cellter G-(dis)	0.079	
Transmissional (T)		12.11
Th 2 303*0/4157/AU		
Transmissiplity (T)	767	in <sup>2</sup> No.
Trammonital Re(T)	18.406	m7/0304
Hydrails Considerity	365	Hilley.
Distance of Observation Hall	4.0	10.
Timesfor 0 dineeduwn	3 106 05	(min)-
Territe for 0 drime-down	51036-05	Tr
Spancing wald (S)	-225716.7	
Somethic shared (51)	0.298-03	
CONTRACTOR DALLER VAL	1.4.60-14	





# FAISALABAD PUNP OUT TEST DATA CONSTANT DISCHARGE TEST COOPERJACOB METHOD

DATA		
Will Number	8	
Tett Date	(3.2-05-2012	
Ewoge Darcharge	4.0	THEFT
Tubyt Directurge (G)	255	nº hose
Thickness of Agailer	150	-175 -
Langth of West Sprewn R.v.I	50	10.
Static Water Level	18.82	- 41
Pumping Weter Levist	76.36	10
Marmum Drawbine	0.83	10
Telef Durablen	240	minutes.
RESULTS		
Delte S (dp)	0.041	- 75
Transmissionity (T)		mide
THO 30340 (445A44)		
Transmissibility (T)	1.147	mine
Transmissionly (T)	28.814	million
Hutter At Controlledy	KAB	m.Gaw
Outpance vel Octanvision well	4.0.	100
Time for 0-drawdown	1 87E W	PERSONAL PROPERTY.
Time Re D drawdown	3 115-09	TE.
Specific Vold/SY	+2-25TM 7	
Spank: weidings	4.895-07	



	CONSTAINT DISC	ALABAID PUMP OUT TEST DAT. ONSTANT DISCHARGE TEST	
	COOPER-MCC	IB METHOD	
ATA			
Noil Number	13		
Aut DMA	Oct 10-2013		
Delagh Evision large	4.9	(Culler)	
fold Determination (Q)	340	in Moder	
Technoli (Aquiler	150	10	
ange of Well Screen (L)	52	100	
Static Weler Level	18.83	N	
Purrising Water Level	1:353	10.00	
Kasimum Drandomi	10.70		
Lorest Durastism	240	meridity	
REISULTS			
CHIRA S-(By)	0.069		
Ther local and a second s		11 84	
Ind 30310/4/Piton			
Trachimissibility (T)	925	10.2 80	
Terrer International State	72.193	10 <sup>7</sup> /0300	
Hydraul Condictivity	-8.5.6	milder	
Distance of Observation H	4.0	11	
Time for 9 drandum	2,245:09	min	
Tindia for 6 chiledown	27/15-10	tr	
Sphircine Wald (S)	~2257087		
Speechto yeeks (IS)	4.846-91		



FA	FAISALABAD PUMP OUT TEST DATA CONSTANT DISCHARGE TEST COOPERJACOG METHOD		
DATA			
Well Number Telt Date	28		
Dwisge Discharps	40	DUSING	
Teste Criscowega (Cris	6.01	in Spine	
Proteina of Agailer	150		
andth of Walk Screen B.V.	-50		
State Water Loval	秋煎 有良		
Fumping Weter Levist	FE 52		
Marmum Draydown	0.34		
Teist Duritike	240	minutes	
RESULTS			
Cwille S (dp)	10 (029)		
Friedministry (F)		m <sup>r</sup> her	
T=2.303*G((#FFAA))			
Transmissibility [T]	2658	m ha	
Transmissionity (T)	10.5,749	K6 <sup>-2</sup> NDBV	
Hydraul (Conductority	1,275	-muldings-	
Disbinos /#/Coservation well	4.0		
Time for D-ghaw@ovm	2.915-10	(mar)	
Timia: 6# 0-toimdownt	-4 MEL-12	tr	
lipeotic yatolis)	-2°2573/2		
Sp4681, yeals(S).	1 64E-36		
	to a decision		




### DATA

LIA. LA			
Well Number	2		
Test Date	Oct-04-2018		
Design Discribige	4	Cutted.	
Test Discharge (G)	200	TH'ALLE	
Thursday of double	180.	100	
Largeth of Mall Screen (1 s.)	50	m	
State Mater Lauri	17,000	100	
Dumping Milling Land	18.07	10	
Man starts Chinese Level	0.25	-	
Tart Demision	401	Transford and	
LAN CONTROL	10	THE REAL	
RESULTS			
Match Pointi			
Mr.	1.0E405		
WITHU	10.9367		
Tores	101.0	1997	
Time	1.675-01	51	
Draminkown (u)	0 174	(111)	
Transmissibility			
Distance of Piegometer	4.0	.00	
Transmissioney	=QH4sTWEIA/I		
Transferrence	1048	miller.	
Transmissibility	25 147	and they	
History In Crock Studies	6003		
in particular Contraction of			
Storage Controlets	A STE OA		
Scarage Coercord	4.376-64		



### DATA Well Nuclévir Text Date: Design Darcharge 16 0:4406:2013 419 152 153 155 1557 1557 1557 1557 0:22 67 - one-Test Discharge (Q) m'hour Testa Unice and Your (Va) Testaness of Aquityer Length of Walai Screen (LA) State: Velor Crivia Pumpang Weber Levial Maconae Envertoren Test Duration 10 2.9.2.5 mandes RESULTS Match Point 1 (0E+11 24.7512 10 (1 W(tAu) Temp Temp ne 1.57E-01 Drisvdown (s) Transmissibility 0.215 15 Transmissibility Dilberse of Plepsetter Transmissibility Transmissibility Transmissibility Hydraulic Conductinity Storage Coefficient Storage Coefficient 4.0 129 -QANIWERAD 1391 m<sup>2</sup>/re 33,384 668 =4Thu/r<sup>2</sup> willow mild 5.80E-10



### DATA

Visil Number Test Dide Design Discribige	0kt-08-2913 4.0	(card)	
Test Discharge (G);	150	minour	
Thicknets of Aquiller	150	- 200	
Length of Well Screen (Ls.)	. 50	m	
Stattle Water! Level	16,28	- 171	
Pumping Water Lavel	19.07	1771	
Makettuth Chardown	0,29	m	
Tost Duraborr	60	mireden.	
RESULTS			
Match Point			
Ma	1.0E+11		
W [ Thu	26 75 12		
EITPH	10.0	1943	
Tires	1.67E-01	10	
Dramidown (a)	0.275	(110)	
Transmissibility			
Einstance of Pheziometers	4.0	TTO -	
Transmissionly/	=G/46/1/V(1/V)	100	
Transmissing	1074	ini fir	
Transmissioney	26,783	·HIP/STRY	
Hydraule Conductivity	616	-182	
Storage Coefficient	=4Tbu/v		
Storage Conditions	4.48E-10		



### DATA

Ant Number	13		
Test Date	-0d-08-2013		
Design Discherge	4.0	CODeb.	
Twist Dischlarge (Q1	350	minur	
Thickness of Acceler	150	101	
Length of Willi Scrulin (L-1)	50	101	
Statute Weber Level	117.28	10	
Plantping Weter Lev W	10.07	121	
Maximum Drawdown	0.29	105	
Field Duralion	-00	minder	
RESULTS			
Match Point			
1.4.1	100+11		
W/Thui	24.7512		
Tamp	10.0		
Twee	1.67E-01	768	
Deteordoven (16)	E 274	105	
Transmissibility			
Celdence of Flebimeter	4.6	100	
Trianswiselbility	=QASTWEEAU		
Trianiwissibility	1074	milte	
Transmis dibility	25.783	me <sup>2</sup> /day	
hydrault Conductively	516	mild	
Storage Coefficient	m4That/2		
Storage Couldment	A.48E.10		



### DATA

Pros. 1.14			
Well Number	23		
Test Date	Oct 10 2013		
Design Drachitige	4.0	CutH4	
Test Discharge (Q)	152	man	
Theological of Actuality	150	(77)	
Langth of West Screen (151)	50.		
Studte Weaker Lawool	16.18	679	
Flatteine Water Lawin	15.28	70.	
Maximum Citisedown:	0.10	m	
Test Dunition	#20	mender	
RESULTS			
Match Point			
116	1.000+11		
WITHI	28 75/12		
Forres	10.0	2947	
Time	1.07E-01	80.	
Drawidown (w)	0 100	(111)	
Transmissibility			
Distance of Pieg ometer	4.0	.711	
Transmissionly	-GRASPVE IA/L		
Transariusbilley	2782	milde	
Transmissibility	66,789	witten	
Histmale Conductivity	1 3 36		
Storage Couldnest	mil Thule		
Storage Coefficient	1.165,00		
	Vini Number Test Date Senson Discribege Test Discharge (Q) Theisversi of Aquillan Langth of Walk Scheen (LS) Bridle Walk Lawai Anatom Crawdom: Fort Dualton Meanum Crawdom: Fort Dualton Meanum Crawdom: Fort Dualton Match Point Mu Match Point Mu Match Point Mu Match Point Mu Match Point Mu Match Point Mu Match Point Mu Dualton of Point Mu Dualton of Point Mu Dualton of Point Mu Dualton of Point Transmissibility Transmissibility Transmissibility Storage Cowflowed	Data     23       Test Date     Dich-10.2013       Dession Discribige     4.0       Dession Discribige     4.0       Test Discribinge (Q)     152       Theoretic Of Apulan     190       Dession Discribinge     50       Discribinge (Q)     152       Theoretic Of Apulan     50       Discribinge (Q)     152       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discribinge (Q)     50       Discrestown (Q)     510  <	Unit Number     23       Test Date     Oct-10.2013       Description     0.0010/001       Description     0.0010/001       Description     0.0010/001       Test Description     0.0010/001       Test Description     0.0010/001       Description     0.0010/001       Description     0.0010/001       Pumping Water Level     15.28       Maxet Description     0.00       Pest Dustion     0.00       Maxet Description     0.00       Maxet Description     0.00       Maxet Description     0.00       Maxet Description     0.00       Maxet Description     0.00       Maxet Description     0.00       TransmissBibly     0.100       Descriptions     4.00       TransmissBibly     0.1010       TransmissBibly     0.1020       TransmissBibly     0.1020       TransmissBibly     0.1020       TransmissBibly     0.1020       TransmissBibly     0.1020       Transtrescrestrestre     nuithr

# FAIISALABAD PUMP OUT TEST DATA STEP YEST COOPER-JACIOB METHOD

DATA			
Will Number	2		
Tett Date	08/04/2013	N	
Dwogn Daxharps		CLORE	
Transf Dreizburge (G)	209	m'mar	
Thicknesk of Agailer	150.	85	
Langth of West Spream B.v.I.	50	815	
Static Water Level	1340	100	
Pumping Water Levist	14.07	15	
Marmun Dravdown	0.27		
Tuly Duration	60	mades	
RESULTS			
Ciena Statul	0.042	10	
Transmissipility (T)			
T=230PQ44*P/Aut			
Transmissionity (T)	V 55	der	
Transmissibility (7)	22.028	- Acres	
Marchinelic Constructionity	441	midday	
Distance of P1	4.6	20.	
Time for D-dreadstern	6 225-04	Min	
Time Rr D drawdown	1.04E-05	tul -	
Specific yield (5)	=2.25Tek.2		
County violation	1.346.03		
Specific yield (5) Specific yield (5)	=2 2576% <sup>2</sup> 1.34E-08		



FI	NSALABAID PUMP STEP T COOPER-JACK	OUT TEST DATA EST 38 METHIOD	
ATA Well-Fumber aut DUA Megor Discharge aut Discharge aut Discharge (2) homes (Adquire angle 2) Vall Schem (Ls) able Weller Lawai	039-00-2013 4.0 152 150 90 15.57	cursic m <sup>1</sup> trice m m	
umping Water Level lavimum Drawdown aut Duratism	16.79 0.22 80	m m mindes	
ESULTS HIMA 5 (05) Nandminukeuky (T) NG 300104-41511041	10,037	'n	
rankonsability (1) remainsability (1) lydrautic Conductivity latance of P1 mas for 0 drawdown mas for 0 drawdown percific yelitä (1) peorite yelitä (1)	755 18,123 042 4.0 3.305-07 5.506-07 5.506-07 5.506-07 5.506-05	m <sup>2</sup> Mr m <sup>3</sup> day m <sup>3</sup> day m m tr	
_	GRAP	H-14	



Sherrer heartist	GRAP	94.15
Seventi yeld(5)	12 25TB/s*	
Time Kr 5 dravdown	1.105.11	h/
Timp for 0 drawdown	0.028-10	-797
Distance of P1	40	m.
Hydrauli: Conauchvilly	494	miday
Transmissibility (7)	24,895	177 <sup>2</sup> 354V
T=2 303*G(44*VAL) Transminibility (T)	1029	wine.
Transmissionity (T)	d ave	-
RESULTS	0.022	
IN A CARACTOR	40	mindon.
Total Development	0.77	and the second
Fumping Weber Levill	1007	85
State Water Lincol	18.76	10
Liength of White Schwert RJ	0 50	10
Thildred ut Aquile	150	10
Terit Diluthings (G)	150.	millione
Deally Discharge	4.9	CUDIC:
Tell Date	08/08/2013	
WHIR Number	- 13	
DATA		
	COOPERSACE	Je METHOD
	STEP 1	EST
	distances in	and the second se



### FAISALABAD PUMP OUT TEST DATA STEP TEST COOPER JACOB METHOD

### DATA

UATA		
Will Number	23	
Test Date	015-10-2013	
Delagh Dischlege	34.6	VARIANC
Teld Doctorge (Q)	152	mittou
Thornesi (Adouter	950	-m
Langer of West Screen (Las)	60.	÷1
Static Water Level	14 18	100
Plantcing Walker Level	48.26	100
Maximum Drawdown	(D 10	
Telil Dunition	.00	minute
RESULTS		
Dettel S (0x)	-0:025	- 65
Transmissiolity (T)		
The source Prices		
Transferences/Jacky (Tr	-1096	
Transmissibility (T)	-58.93	million
Hadrialis Conductivity	-627	midde
Exitance of P1	4.0	10.
Time for 0 drilladown	1200-10	110
Tirmia for D dribk-dowin	5.34E-12	hr.
Specific york(105)	>0257bb/	
Spanite warf (S)	-8.84E-10	
and the second sec	the set that the	

### GRAPH-16



### FAISALABAD PUMP OUT TEST DATA CONSTANT DISCHARGE TEST RECOVERY METHOD

# DATA

Well worder		
Tert Date	Det-04-2213	
Deningsi Dendhängen	4.0	(synet:
Test Discharge (0)	330	10,000
Thickness of Aquiter	150	
Length of Wiell Screen (is)	50	
Stattic Writige Level	13.32	
Fumping Wilder Levelli	14.28	
Massimum Drawfown	0.36	
Distance of observation well	4.00	- W.
Fumping Duration Guzation	240	micute
Recovery Duration	60.0	minutes
RESULTS		
Drawdown over log Cycla	0.088	1.8
Test Discharge (Q)	330	ins /for
Test Dischinge (Q)	7920	myday
Transmissibility (1)	-2.30/45.65	
Traintwist/billty (T)	16394	m2/day
Hydraulic Conductivity (K)	398	10/512
Time when pumping was stopped	240	minutes
Oralivationen withein pumping wirs Mopped	6.70	
Storage coefficient	-(2.2571p/r <sup>2</sup> )*10 <sup>146</sup>	87.10)
Stortage coefficient	4,652-06	
	Besign Ondelarge: Test Dischange (0) Priciness of Assider Langth of Well Screen (U) Scretc Wells reserved Pumping Wells Constraint Besigner Developern Distance of observation well Pumping Duration Duration RESULTS Dri Juckian over fog Cycle Test Dischange (0) Test Dischange	Besign Ondränge: 4.2   Vest Dickness of Assilter 350   Practices of Assilter 350   Static Water Level 313   Ministrum Diserdition 50   Static Water Level 13.32   Pumping Water Level 13.32   Pumping Water Level 4.26   Distance of observation well 4.00   RESULTS 10   Distanching (Q) 3920   TransmithBilliky (T) 16394   Hydraski Conclusion 348   TransmithBilliky (T) 1338   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 348   TransmithBilliky (T) 340   Distunctioner weine pumping with stopped 340   Distunctioner weine pumping with stopped 340   Distunctioner weine pumping with stopped 340   Distunctioner weine pumping with stopped 340   Distunctioner weine pumping with stopped 340   Distunctioner weinerg



# Appendix-7 Other Relevant Data

FAISALABAD PUMP OUT TEST DATA. CONSTANT DISCHARGE TEST RECOVERY METHOD

### DATA

Well Number	8	
Tast Date	0x8-05-2018	
besign bischarge:	4.0	EXISTE:
Test Discharge (0)	253	m <sup>1</sup> /hose
Thickness of Aquiller	150	1011
ength of Well Schen E(s)	52	101
Initia: Water Level	\$6.62	.071
Pumping Weber Level	16.95	.071
Maximum Crawdown	0.33	101
Distance of observation well	-5.00	107
Furging Duration Duration	245	winute:
Recovery Duristion.	60.0	minutes
RESULTS		
Drawdown over log Dycle-	0,061	97
Test (Discharger (C))	253	minte
Test Oik-thanga (O)	6072	ie lides
Frankrikskikiller (T)	-2.30/4+6.5	
Transmissibility (T)	18215	milder
Hydromatic Combuctivity (K).	364	m/day
Time when pumping was stopped.	240	minutes
Statisticity when purging with stopped	8.76	IPT.
Storaigt coefficient	-(2.25Trp/r')*10 <sup>1-601</sup>	64 EV
konige conflicient:	1,446.09	



### FAISALABAD PUMP OUT TEST DATA CONSTANT DISCHARGE TEST RECOVERY METHOD

### DATA Well Number

Well Number	13		
Text Date:	Det-08-2013		
Desilge Olscharge:	4.0	ciusec.	
Test Discharge (0)	349	m',mar	
Thickness of Appiller	150	· .	
Length of Well Screen (is)	50		
Stattic Water Level	18.85		
Pumping Water Level	19.53	m	
Maximum Dirawdown	0,70		
Distance of observation well	4.00	- 19 C	
<b>Pumping Durition Durition</b>	240	minutes	
Recovery Durittion	60.0	minutes	
RESULTS			
Drawdown over log Cycle	0.079		
Test Dischlinge (Q)	349	un!/im	
Test Discharge (CO	8376	m <sup>3</sup> /day	
Promissionistability (1)	-2.30/4s.6s?		
Transmissibility (T)	19411	m2/day	
Hydraulic Conductivity (K)	388	m /day	
Time when pumping was sto	oppred 240	minutes	
Drawdown when pumping a	dirth Stoppedi 0:70		
Storage coefficient	+(2.2573p/r <sup>2</sup> )*10 <sup>1-44</sup>	(017.34)	
Storage coefficient	6.7.81-0.7		



### FAISALABAD PUMP OUT TEST DATA. CONSTANT DISCHARGE TEST RECOVERY METHOD DATA 23 Well Number Dot-10-2018 Test Date Delign Okcharge 4.0 dunit. Test Discharge (Q) 401 m<sup>1</sup>/hose Thickness of Acuiter 150 1071 50 Longth of Well Screen (13) 10 16.18 Initia Water Level an. Planiping Water Level 16.52 10 Maximum Drawtown 6.54 100 Detaince of observation well-4.00 107 Pumping Durinjion Durinijon 240 minutes Retornery Duration. 60.0 minutes RESULTS Crawdown over log Cycle 0.054 RT. Test Discharge (Q) 349 m<sup>1</sup>/the 9624 Test Discharge (D): m1/stry Transmissibility (T) -2.30/446.5 Transmissibility (T) 17415 m'/airr 648 mydraulic Conductivity (4). m/day Time when pumping was stopped. 240 minutes. Desection when purping win stopped 0.70 101 -(2.257mg//2)+10<sup>1.467</sup>0110 Storage coelficient Storage pacificators: 9.988-11



APPENDIX-A

TEST DATA

40318 Dav

Step Drawdown Test Record

SMINH	Oyenab Wel	Eist And WA	S4 Field/Abad		Wild No.	TV/#2_		
SINDS YHINK L	1981	推动	11	_				
THE SHIP		Discharge Re	4+1Q1	200	n?hout			_
Davi	Time	Exploit	Timi at	Fummering	Wider Network	Drawsort	ITW	(#3)
		- 200	Heich steep	rice	= 0m3	2100	Water revol	Ekalydow
1.00		(vard)	(we)	(m <sup>1</sup> houi)	1.11		\$ 070	20.001
+0:5-15	8.00	10	0.	-0.0	1336	0.00	14.39	0.00
		7		266.1	1882	0.18-	14.89	0.00
		2	2	199.4	14.02	0.18	14 89	0.00
		3	3	203-4	1482	0.16	14.39	9.00
	1	- 4	- A	264.1	14.02	0.14	14.39	0.00
		8	8	198.6	14.03	0.17	14.30	0.00
		0	6	200.5	14.02	0.17	14.89	0.00
		7	7.	199.A	1408	0.47	14.39	-0 GC
		.8	8	301.8	14.03	0.17	14.30	0.00
		0	0	203.6	1495	B 17	14.89	6.00
		10	92	1997	0408	9.17	14 39	0.00
_		12	92	201.0	1413	E 17	14.89	10.00
		14	- 14 -	201.9	18.047	0.18	14.89	0.00
		50.	.95	206.9	5106	0.16	14.29	0.00
	1	10.	19	209.9	14.05	0.19	14.89	0.00
		20	20	208.7	14.05	0.10	14.30	0.00
		25	25	210.6	14.05	0.19	14 39	0.00
		00	30	215.5	32.05	9.26	14.89	0.00
		35	25	245.8	14.05	0:50	14.50	0.00
		-40	40	220.8	1810	0.29	14.39	0.00
		-45	45	217.6	14.95	9.20	14.89	0.00
		58	50	226-4	1458	623	14.39	0.00
	1	55	55	227.8	1992	0.21	14,39	0.00
1	7.00	60	85	236.0	1202	0.21	14.30	6.66

Step Drawdown Test Record

SMANAY	Chroke WM	Find Alex W	SA Fanlandoid		YWH NOT	TW/#2		
SNES WIDH I	uprost ::	12.65	m					
21458.02		Diversity R	129 (9)	259	m <sup>2</sup> how			-
Cente	Tirre.	Elapited	Time of	Purping	Wider inven	Drimidaye	(TW	40)
		Tittia	ANCH STAP	T din	a (m)	-2F(0)	Water I well	Draindowy
1.000		Intel	(INTE )	(m <sup>2</sup> bost)			3-891	20193
40:042	7.02	60	0	228-0	14 D7	0.21	14.39	0.00
		81	1	248.1	14 (19)	0.22	54.39	0.00
		52	2	247.5	14 (0)	9.22	34.39	0.00
		:43	3	248.5	14.08	0.22	14.30	0.00
		. 64	4	247.2	14,08	0.22	54,55	0.00
		65	5	252.1	14:09	0.23	14:30	0.00
		00	8	250.0	14.09	0.23	14.39	0.00
		- \$b	1	250.7	14.09	0.23	14.39	0.00
		68	8	2513	14:09	0.23	14:30	0.00
		- 199	9	248.6	14:09	0.23	18.29	0.00
		70	10.	262.9	14 09	9.28	14.39	0.00
		72	12	249.8	14:09	0.23	14.39	0.00
		74	10	253.1	14.10	0.24	14.29	0.00
		78	16	255.1	14.10	0.24	14.39	0.07
		78	18	253.3	14.10	0.24	54.39	0.00
		80	20	254.0	14.10	0.24	14.39	0.00
		85	25	249.4	14.10	0.34	14.30	0.00
	1	.90	30	252.1	18.40	0.24	34.29	0.00
	1	.95	35	251.3	14.80	0.24	34.39	0.00
		100	40	2507	14.80	0.24	14.89	0.00
		105-	-45	280.2	14.81	0.25	54.79	0.00
		510	30	251.6	34.61	.6.25	14.45	0.00
		115	35	251.9	14.81	0.25	14.39	0.00
1	7.00	120	3.0	354.0	14.61	0.55	14.3)	6.00

408311

Des.

Date:

Citté

400.15

SEAMAN	Owind) We	Ei#d Anad, WA	SA Field Mar	1	Wild No.	TVV#2		
State: Wantyn L	and in the second	13.60						
-								
1rd Step		Discharge Ra	Bin (Q)	300	minour		-	
-Dest	Type	Expand	Time of	Pumping	Wilder Hervel	Dt dw/dowth	(174	(#3)
1.11		Arrial (vain)	vex/listep (mm)	nabé (m <sup>-1</sup> /hour)	-s(m)	_2(m)	Wider Novial 3 (1978)	Drawdow Zisiemi
4.0年1日	8.00	120	0	354.0	3239	0.55-	14.39	6.66
		121	+	3012	14.15	0.27	14,89	0.00
		122	2	301.0	34.34	6.28	14.59	0.65
		1,23	- 3	300.0	14,54	0.39	14.39	0.00
	1	154	4	302.4	14.15	0.29	14.80	0.05
		125	8	504.4	14.15	0.29	14.30	0.00
		126	8	301.7	14.15	0.29	14.39	-0.00
		127	7	306.6	14.16	0.20	14.39	- ó ca:
		128	ê	3031	1419	0.29	14.30	0.00
		129	0	299.8	14.15	0.29	14 29	6.90
		120	70.	302.2	1415	0.29	16.59	0.01
		1.32	- 52	2967	14.15	829	14.89	0.0
		134	- 14	302.2	14.15	0.29	14.29	0.00
		1.20	.95	290.7	54115	0.29	14.39	0.00
		120	10	2002	14.15	9.29	14.39	0.00
		140	20	364.8	14.15	0.29	14.39	0.00
		145	25	3-03.9	14.16	0.30	14.39	9.00
		150	20	394.1	38.16	930	14.29	0.00
		155	35	\$07.8	1416	0,80	14.59	0.00
		160	- 40	346.5	14.15	0.85	14.39	0.00
		185	45	397.6	34.17	9.21	14.59	0.00
		120	50	309.2	14.12	0.33	14.59	-9.00
	1.000	175	55	308.1	14.17	0.81	14,39	0.00
	8.00	160	60	308.5	14.17	0.31	14.30	0.00

Step Drawdown Test Record

### Step Drawdown Test Record

20810218	Cising the	rind ever me	CA Paralacijo		AABB LAGE	10.54		
Static Water L	evel	10.66	m					
at sec	-	Docharge Re	(P140	357	eithiour.			-
Diede	Tirm.	Elapsed	Time of	Purping	Wedler hevel	Drimdove	(TW	(69)
		time.	0407-0240	104	6100	.zb(m)	Water Weat	Dreidswi
		(mm)	imma	(m <sup>1</sup> bod)	1.000	1.00	3.8%	20101
466.35	14.65	185	0	398.5	14.67 ·	.6.91	14:30	3.65
		183	1	348.0	14.25	0.32	14.29	-8.01
		0.02	2	347.2	14,89	0.53	14.35	-0.61
_		183	3	350.4	14 89	0.53	14.38	-0.01
		184	- 4	345.4	14.10	0.33	14.38	-8.01
		185	5	349/8	14:20	0.34	14.38	-0.0F
		188	6	352.9	14:20	0.34	54.38	-0.01
		117	1	4523	14.20	0.34	14.36	-0.01
		183	8	3511	14:20	0.34	14.88	-0.01
		189	9	852.8	14.20	0.54	14.35	-0.01
		190	10	350.0	14.20	0.54	14.35	-0.01
		192	12	347.2	14.20	0.34	54.35	-0.01
		194	10	353.6	14 20	10.54	14.35	-0.01
		196	10	353.7	14 20	10.54	54.39	0.01
		1988	10	349.9	14.20	3034	14.38	0.01
		200	20	350.5	14.20	.0.34	14.38	-0.01
		205	25	348-8	14:21	9.25	14.35	-0.01
		210	30	652.1	14:21	0.35	14.38	-961
		216	35	341.5	14.21	0.35	14.36	-0.01
		220	40	350.0	14.22	0.56	14.33	-0.01
		228-	45	851.1	14.22	9.56	14.38	-0.01
		200	50	200.0	14.22	0.50	14.58	-0.61
		285	50	\$40.0	14.23	,0.37	14.35	-801
	10:00	240	80	3517	14.24	0.38	14:34	-30.04

Date: 409.18

Step Drawdown Test Record

Stethanie	Chendo Wel	Eist And, WA	S4 Field/Abe	1	Wild Bla	TV/#2			
STATIC YMINN L	1948	推销	- 15						
9h-34g	-	Diptherapl Re	d+101	Maximum (V)	We Fill Opiced				
Dese	Time	Exploit	Time of	Pumping	Witter Hervel	Drawsom	176	(#3)	
		- 200	Hach step	1000	\$907	24(17)	Water revol	Ekalydow	
1.11		(res)	(me)	(m <sup>2</sup> hou)	1.000		3 (77)	20.001	
+05-15	10.00	240	0.	351.7	3424	0.38	14.38	-0.01	
		241		352.5	14.25	0.39	14.33	-0.01	
		242	2	263.1	14.25	9.39	14.80	-0.01	
		243	3	356.4	1425	0.59	14.30	+0.01	
	1	244	- A	3597	14.25	0.59	14.30	-0.01	
	1	245	8	3611	14.25	0.30	14.38	+0.01	
		240	6	3:00.0	1425	0.39	14.29	+0.01	
		247	7	357.0	1425	0.39	14.31	-0.01	
		248	8	3.58.0	14.25	0.30	14.55	-0.01	
		249	0	359.0	14.25	0.39	14.80	-0.01	
· · · · · ·		250	92	357.7	1425	0.33	14 30	-949	
		252	. 12	3611	1420	B-40	14.50	-0.02	
		254	- 14	353.3	14.20	0.40	14.28	-0.02	
		256	- 15	362.1	5426	0.40	14.00	0.02	
		258	19	340.0	1420	0.40	14.27	(0.02	
		260	20	353.2	1426	0.40	14.37	-0.02	
		265	25	3:50.8	1426	0.40	14 37	-0.02	
		2/70	20	353.4	3426	0.40	14.87	.0.02	
		275	25	351.2	14.26	0.40	14.37	-0.02	
		2980	-40	333.4	19.25	0.40	14.37	-0.02	
		285	45	340.2	3426	0.40	14.87	.9.02	
100	11	290	50	354.2	14.56	0.40	補助	-0.07	
	1	295	55	343.7	94.27	0.43	14.37	-9.02	
A	1100	300	86	3.48.5	3427	0.41	14.37	-0.02	

Continuous Test Record

408311

Des

Statute Chenap We	Find Area WASA Fastanded	VW# No: TW #2	
SMES WITH LAND	112-12 m		

Discharge Rat	9 (9)	MarmanyVa	ive Fall Opene	÷				
Cente	Tirne.	Elapited	Time of	Purping	Wester hevel	Drimdowe	(TW	(49)
		TITIA	ANC: STAP	rde	= (m)		Water /wvel	Drandowy
1.00		(mm)	imm2	(m <sup>2</sup> hos/)			3-891-	20191
40d-13	12.00		0	0.0	13.92	0.00	14:57	0.00
			1	\$25.6	14 20	0.58	14.38	-0.01
		2	2	245.2	14.14	9.22	14.36	-901
		2	3	350.9	14.86	0.23	14.58	-0.01
		4	4	252,1	14.66	0.25	54,50	-891
		5	5.	325.5	14.87	0.25	14.38	-0/01
		8	6	348.4	14,18	0.26	14.30	-0.01
		T.	T	254.2	14.19	0.27	14.35	-0.01
		8	8	350.7	14.20	0.28	14.36	-0.01
	-	.9	9	529.3	14.20	0.28	18.26	-0.91
-		-00	10.	347.5	14.20	9.28	14.35	10.01
		12	12	347.0	14:20	0.18	54.36	-0.01
		54	10	244.0	14.21	0.29	14.35	-0.01
		16	10	347.9	14.25	0.29	54.50	-0.01
			10	343.3	1421	0.29	54.50	0.01
		-20	20	344.4	14.23	0.30	14.35	-0.01
		.25	8	328-3	14.22	0.30	14.38	-0.01
-		30	30	3413	14:20	0.51	34.38	-9101
		.35	35	325.0	14:23	.0.31	14.36	-20.01
		48	40	345.5	14.24	0.32	14.38	-8.07
		45	-45	328.4	14.24	9.32	54.36	-0.01
		- 40	30	307.9	14.22	0.30	54.36	-8.61
		55	35	3110	14.22	0.30	14.88	-0.01
	13.66	60	60	504.0	14.32	0.50	14.38-	-0.01
		70	20	306.7	14.22	0.30	14.56	-0.01
-		100	10	300.0	14.22	0.30	14.38	.0.01
		-90	10	313 t	14.25	0.33	14:35	-0.01
		100	100	315.1	14.25	0.33	14.35	-0.01
		110	110	2002	14:25	0.33	14.05	10.01
	10.00	120	100	3175	10 28	0.81	1.5.84	400

73.000

# 589 4-03-15

Continuous Test Record

Stenas	Owhap Well	Eiald Anala, WA	Set Field Model		Write No.	TVV#2		
State: Weekye	Lyviti	13,92	D.					
(Uscharger 4)	né (a)	Maximum (Vil	Ive Full Opena	11	2		-	-
-Deet	Type	Expand	Titus of	Pumping	With High	Dr devolowet	(TV)	(#3)
		Article .	sect they	1026	5003	25s.(m)	Wider Will	Drawcewn
1.00		jvan5	(nin)	(m <sup>2</sup> basi)	-		3 (17)	28-611
		120	120	337.1	14.25	631	14.55	-8.02
		148	140	309.3	18.24	0.32	14.35	-9 ((2
	1000	160	160.	319.0	1424	0.52	14.55	-0.02
	19,00	100	110	3.28.0	14.34	0.32	14.35	+0.02
		200	208	311.8	1454	0.32	14.85	.0.02
		220	220	357.4	14.28	0.38	14.35	-0.02
	15/00	240	310	377.8	M28	U.M.	14.35	.0.07

### Recovery Test Record

Solutions Chroad WM	Field Aven WAS	AFanadord	YVWFTA: TVY 82	
Static Water Level	13.02	m		

Dete	Time	El-spied	Kin(overy tree		Wilder testel	Reptild Drawboon	(TW	183
		tano. (man) L	for each said. (min) (t	-97	4 (m).	N")(17)	water invit is (m)	Rasidual Dravidowy s: (m)-
40:5-12	15/00	240	0		14.28	0.38	1435	-0/02
		241	1	241	14.113	0.21	14.35	-0.02
		242	2	121	14128	D.96	14.25	-0.92
_		243	- 2-	-84	18.05	0.12	1435	-0.02
		241	4	01	14.04	0.12	14.35	-0.02
		245	5	47	14103	0.11	14/35	-0.92
		245	0	-41	14.07	10.00	14.35	0.02
		247	7	25	14.02	0.10	14.35	-8.62
		248	-8	BX	14.01	0.09	14.35	-0.02
	-	249	9	.2%	HD1.	0.09	54.35	+0.02
		- 250	10	25	14.00	0.06	10.35	-9.92
		252	12	28	14 (0)	20.02	34.35	-0.02
		253	14	18.	12 99	70.0.	14.35	-8.02
		256	16	16	13 99	0.06	34.35	-0.02
		252	ta	14	13.99-	0.05	54.35	-0.62
		260	20	13	12 98	0.06	14.35	-0.02
		205	78	31	13.97	0.05	14.35	-0.02
		270	30	.4	13.97	0.04	14.35	-0.02
		-275	38	. 6	13.56	0.64	14.35	-0.02
		280	40.	T	13:96	0.04	14.35	-0.02
		285	-48	1	13.95	0.03	14.85	-0.02
		260	50	- 6	13.95	69.01	相思	20.02
		285	55	5	19.04	8102	14.34	-8/02
-	17.00	300	.80	5	13.94	242	54.35	-9.62

# A- 78

50010

Dige.

Well Interference Test Record

Ste Name Chanap Wee Field A	ilia, WASA Fa	twicklus-	WWENS TRUE		-
SAME PORT LOCAL TAXAS	526(1)	TP:-	Start Water Level Tot #7.	24.35	- 10

Pattern S			_				_			
088	Tares.	Eligited	Titte 68		TW/#2			TWARS		TW #4
		tima .immi	each step	Pumping table. (m <sup>1</sup> those)	Pumping water raiva 6 (m)	Erandown Ldi (m)	Pumping 1889 (m <sup>1</sup> /bour)	Pumping Webert Invol 5 1011	⊇h (mi	Pumping rate (m <sup>1</sup> mour)
50.0-13	6.00	- Ø -	0	100-	13/61	0.00	0.0	54 35	0.00	0.0
_			1	49.	12-11	0.00	.0.0	54.35	0.00	250.6
		2	- 2	001	1201	0.00	0.0	54.35	0.00	395.3
		3	3	0.0	1000	0.00	0.0	54.35	0.00	357.0
_		4	- 4	0.0	13(8)	0.00	0.0	14.35	0.00	354/8
-	-	5	5	0.0	13.11	0.00	0.0	M.25	0.00	317.9
	-	<i>b</i> .	6	0.0	13/61	0.00	0.0	54.35	0.00	391-4
_		<i>T</i> .	1	0.0	13.61	0.00	0.0	14.35	0.00	378.8
		8	8	.00	13(0)	0.00	9.0	54.25	0.90	\$77.9
_		9		0.0	13.81	0.00	0.0	54.35	0.00	381.6
_		10	- 107	0.0	1.2.01	0.00	00	\$4.35	0.00	877 2
		12	-12	00	13:81	0.00	9.0	14.25	0.00	380.1
		14	- 54	0.0	13.81	0.07	0.0	M.35	0.00	3751
		形	- 98	0.0	13.81	0.00	0.0	M 35	0.00	378.9
		t8	18	00	13.81	0.00	0.0	14.35	0.00	. S86-T
		20	-207	0.0	13,81	0.00	0.0	14.35	0.00	374.6
		古	古	0.0	13.05	0.00	50	54.35	0.00	-375%
		30	- 30	0.0	13.68	-0.01	0.0	64.95	0.00	. 374.0
		.95	35	66	13.60	-0.01	0.0	54 35	0.00	375.8
_		-40	-40	0.0	13.60	-0.01	9.0	94.35	0.00	379.4
		-45	-45	6.0	12.00	-0.01	0.0	94.35	6.00	371.6
		50	50	0.0	13:80	-0.01	0.0	\$4.34	-8.01	874.2
		55	- 35	0.0	+3.80	-0.01	0.0	14.34	-0.61	370.5
-	7.00	40	:60	0.0	1.1.80	.0.01	0.0	14.14	10.01	366.8

Well Interference Test Record

Date:

3-0.612

5b) Mame Chevab Well Field A	ona, WASA Fill	the down	Will No. TW K2				
Static Water Leiver TW #2	13.85	(m)	Static Wester Lucos TVV #2:	14:25	1.10		

Electronity.										
Date	Time	Elipted	Tron of		TW#2			TWAS		TW/#H
		304 (10)	each strip	Pumping take (m <sup>1</sup> thour)	Funjang water tarva s (m)	Diawdown 2h (m)	Pumping Health	Fumping August Nation (\$1991)	Drawdown	Pumping tabe sm <sup>2</sup> how
5-0ct-13	7.00	60	00	0.0	13.80	-0.01	0.0	1434	-0.01	0.0
		50	- F	0.0	13.00	-001	0.0	1424	10.0	0.0
		8,2	1	0.0	13.00	-0.01	0.0	1434	10.0-	0.0
1.1.1		63	3	0.0	13.60	+0.01	0.0	1438	-0.01	0.0
		64	-4	0.0	13.80	-0.01	0.0	1434	-0.01	0.0
		- 65	1.	0.0	13.80	-0.01	0.0	1434	-0.01	0.0
		56	. 6	0.0	13.10	.0.01	0.0	1436	100-	0.0.
		67	7	0.0	13.80	-0.01	.0.O	1434	-0.01	0.0
_		68		0.0	18.00	-0.01	0.0	1434	40.01	0.0
		89	- 9	0.0	13.80	.0.01	00	1430	10.01	0.0
		70	10	0.0	13.80	-801	00	14.34	-0.01	0.0
		72	12	0.0	13.80	-001	00	1434	-0.01	0.0
		74	14	0.0	13.10	0.01	00	14.28	10.01	0.0
		70	16	0.0	13.10	0.01	00	14.34	10.01	00
	-	78	78.	0.0	13.50	-0.01	0.0	14.30	-0.01	0.0
		-80	20	0.0	13.80	-0.01	0.0	1434	-0.01	0.0
		55	25	0.0	13.60	-0.01	0.0	1438	10.01	00
		:90	30	0.0	13.80	,0.01	0.0	1434	-0.01	.0.0
		95	35	0.0	13-80	-9.01	0.0	1434	-0.01	0.0
		- 100	-83	0.0	13.00	-0.01	00	1434	10.01	0.0
		105	-45	0.0	13.60	10.61	05	6438	-à61	ôô.
		110	50	0.0	13.80	-8,01	0,0	1434	-0.01	0.0
		715	55	0.0	13 80	-0.01	0.0	1434	-0.01	6.0
	-8.00	130	60	0.0	13.80	-0.01	0.0	1.4.3.6	-0.01	0.0

Cittle

504.43

ENAN

Well Interference Test Record

-references (a)	Chemistry W	the friend when	a, minante i	141016-01		1. Will 1912	10.07	_	_	
Ret With	r Lemel TV	182	13.81	m	- 1	State: Wath	8 Level TVI	47	14.35	- 10
Patient 3	-					-				-
Ose	Time	Elaphod	Time.68		TW/#2			TVWWS		TW-#4
1		time (mn)	with step	Pimping Mbil (m <sup>1</sup> mour)	Pumping water save	Drawdown	Pumping Net (m <sup>1</sup> hour)	Pumping Wetert Invol & (m)	Drawdown	Pumping natil (m <sup>9</sup> /boar)
50.6.13	8.08	120	0.	20	12:00	-0.01	0.0	54.34	-0.01	0.0
		.121	. t.	0.0	23.50	-0.03	287.8	16.12	0.00	0.5
		122	3	(0.0	13.00	-0.01	255.1	54.44	0.09	0.0
	-	123	3	0.0	13.81	18.0	288.0	M-46	0.10	0.0
		124	4	0.0	13,80	0.01	258.3-	14.46	0.11	0.0
		125	5	.0.0	13.00	10.01	260.1	M.47	0.12	0.0
	-	128-	- <u>k</u> .	0.0	13/80	/0.01	250.5	58.48	0.13	-0.0
_		127	1	0.0	13.80	-0.01	265.8	14.48	0.13	0.0
		128	8.	.00	13:00	0.01	251.4	54.40	0.15	40
		129		0.0	1310	10.01	243.9	54.48	0.78	Ú Ó
		1.80	- 107	- 65	1.2.00	-0.01	246.81	53.49	0.14	70.0
		182	-12	0.9	1,3:88	.40.01	240.1	54.42	0.14	60
		134	- 54	0.0	13.00	-0.01	244 8	M.49	0.14	0.0
		136	- 16	00	13.40	10.01	242.2	14.49	0.14	X0.0
		128	18	0.0	13.60	-0.0t	238.4	14.49	0.14	0.0
		140	29	9.9	13.80	-0.01	238 1	94.49	0,14	0.0
_		145-	送	0.0	13.60	10.01	-227.1	54.49	0.14	41.0
		150	- 20	0.0	13.60	-0.01	743,4	64,49	0.14	0.0
		155-	35	9.6	13.60	-0.D1	250.5	14.50	0.15	0.0
		160	-40	8.0	13.60	-0.01	246.0	91.52	0.15	-0.0
		165-	-45	0.0	13.00	-0.01	243.8	M-51	0,10	0.0
		170	50	0.0	13.80	-0.01	249.5	91.51	0.96	0.0
		175-	- 55	0.0	13.60	-0.01	237.8	14.51	0.16	0.0
	9.00	180	. 60	00	13.80	-0.01	250.1	34.52	0.10	0.0

### Weil Interference Test Record

Sp) Mane	Chiends W	SET WIT ADD	IL WASA FI	bield-eas	_	Well big	1W.82			
State: Wate	< Level 7V	a1	13.65	10		State Wild	ar.l. greet TW	43.	14.35	- 0
Patern-4	-	-						-		
Date	Time	Elipted	Term of		TW#0			TW/#3		
		terni (min)	Auch step	Pumping tall	Funding water territ	Desworm	Pumping Teles Infilment	Pumping Netter Nivel	Draudown	Portpin
500-0	19.00	180	0	0.0	13.80	-0.01	250.1	1451	8.16	0.0
		181	1	422.1	13.99	0.18	282-2	1351	0.10	0.0
		152	4	278.9	14.01	0.25	238.2	1451	0.16	90
		113	3	370.0	14.63	0.22	198.5	1451	0.16	0.0
		184	4	442.1	14.04	0.23	726-2	1451	0:16	0.0
		185	5	376.9	14.05	0.24	250-0	1451	0.16	0.0
		586	8	362.1	14.05	0.24	216.0	1451	0.16	90
_		187	7	378.9	14 06	0.25	234.4	1451	0.16	00
		188	- 4	442.1	14.07	0.26	289.4	5451	0.16	0.0
		798	8	376 9	14.07	0.25	226 2	3451	0.16	00
		590	10	482.1	14.07	0.26	224-1	1450	0.15	0.0
		192	12	378.9	14.07	0.26	204.5	1450	0.15	0.0
		.154	14	410.5	14(0)	0.27	258.7	34.50	0.10	0.0
		196	10.	419.5	14,09	0.78	259-3	14.50	0.15	00
		190	78.	462.1	14.10	0.29	259.7	14.52	0.17	00
		200	29	410.5	14.10	9.29	252-9	14.52	0.17	2.0
_		295	- 25	416.8	14.11	0.30	0.646	1458	0.18	0.0
		210	80	495	14.12	0.91	itsa k	1453	0.19	00
-		265	- 35	429.5	14 13	0.32	252 t	14.53	8.98	0.0
		229	. 40	416.0	14.14	6.23	269.4	1453	0.18	-0.0
		225	45	429.5	14.15	6.34	252.4	5453	0.19	00
		230	50	429.5	14.15	0.34	251.2	14.53	0.18	0.0
-		235	- 55	429.5	14.15	0.34	274.6	1453	0.18	0.0
	10.00	340	60	429.5	14.16	0.85	270.7	5.8 KA	0.19	0.0

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Cites:

Well Interference Test Record

Ste Nerve Chenda Will Field /	ING, WASA'E'NS	14 CM MU	WWEINE TRYIC:		
SHEET WIRK LACENTY M2	19/01	TR-	Start Water Lyna TH #2.	:94.35	- 10

Pattern 5										
089	Tares.	Elapited	Tirm óf		TW/#2			TVV #5		TW #4
		time .imm)	each step	Pumping table. (m <sup>1</sup> those)	Pumping water siva 5 (m)	Estandown	Pumping 1889 (m <sup>1</sup> /bour)	Pumping Weter Invul 5 1011	Drawdown ∠k (mi	Pumping rate (m <sup>1</sup> mour)
50.0-13	10:00	248	0	429.5	54.16	0.95	270.7	14.54	0.19	\$35.5
		241	1	442.1	34.18	0.85	-285.7	91.54	0.10	329.0
		347	- 2	378.9	54.16	0.35	250.7	54.54	0,19	3517
		343	3	442.1	54.90	0.35	340.8	54.54	0.15	349.0
		244	4	942.1	14.16	0.35	248.5	14.54	0.10	3327
	-	245	5	378.9	54.10	0.15	2007	N.54	0.19	848.2
	_	246	- 6.	842.1	54.16	0.35	2825	54-54	0.19	, adama
		247	1	1442.1	14.16	0.35	366.7	14.54	0.10	351.1
		243	8	378.9	154.18	0.85	2487	54.54	D-19	579.6
-		242		442.1	14.18	0.85	762.8	54.54	0.10	335.7
		259	- 10	842.1	54 17	0.35	250.8	54 54	0.19	343.2
		262	-12	418.5	34.17	0.30	246.5	14.54	0.19	-319.6
		254	158	410.5	3437	0.36	253.3	M 54	0.19	342-4
		258		1442.1	- 54 37	0.30	258.1	M-54	0.19	337.0
		258	-78	410.5	34 17	0.58	264.7	14 54	0.10	. 844.3
		260	-20	1442.1	34.17	0.36	249.2	14 53	0.18	338.5
		.255-	25	418.8	34.18	0.85	258.0	94-53	0.15	300.9
		270	30	378.0	14.15	0.54	2613	14 52	0.17.	289.7
		275-	35	418.8	54.18	0.37	257.5	54.54	0.19	348 1
		280	-40	418.8	54.18	0.57	251.8	51.54	0.19	338.2
		245	45	429.5	54.19	4.58	343.6	sa. 55	620	251.5
		290	50	429.5	54.09	0.38	256 P	\$4.55	0.20	351.4
		:98	苏	416.8	14 10	ō 58	-2818-	54.65	0.20	340.6
	13/007	800.	- 66	A100 K	104.10	0.19	787.04	Li ec	0.50	1160

Step Drawdown Test Record

SMEC WHEN L	annie :	196.57	m					
tst.Ship		Discharge Re	E9 (Q)	150	n <sup>2</sup> hour			
Clede	Tirre.	Elapted	Time of	Purping	Wider Nevril	Drimdowe	(TW	#9)
		<b>T</b> ITA	ANC: STAP	rda	a.(m)		Water/weel	Drandowy
1.00		Level .	(INTE	(m <sup>2</sup> hor)			3.00	23593
\$-Did-12-	5.03	0	0	0.0	18.57	0.00	- 18-45	· 0.00
1100		1	- t -	152.0	16.76	0.19	15.43	0.00
		2	2	142.1	15.775	47.Q.	10.43	0.00
		- 1	3	158.9	16.76	0.19	16.43	0.00
		4	- 4	150.7	16.76	0,19	16,43	0.00
		15	6	158.2	16.376	0.19	18,43	0.00
		6	8	1417	16.76	0.19	10.43	0.00
	-	T.	1	142.6	16.76	0.99	16.43	0.00
		8	8	146.0	16.76	0.19	16.43	0.00
		.9	9	148.0	16.76	9.99	36.43	0.90
		-10.	10.	152.0	16.37	0.20	16.43	0.00
		12	12	154.0	18 78	10.21	15.43	5.00
		54	10	152.0	16.778	0.21	16.43	0.00
		18	10	155.0	10.70	10.21	10.43	0.07
	1	10	10	152.0	10.79	0.22	10.43	0,00
		-30	20	152.0	15.370	0.22	18.43	0.00
	1	.25	- 25	154.4	16.779	0.22	18.43	0,00
		36	30	151-4	16.779	0.22	16.43	0.00
		.35	35	154.5	16.E0.	0.23	18.43	0.00
		49	-40	152.2	16 (50)	0.28	36.43	0.60
		-45	-45	150.3	16.80	0.22	36.43	0.00
		40	30	148.6	16 Bộ	6.23	16.43	6.60
1		55	35	158.4	16 B0	0.28	16.43	0.00
	7.55	- 65	- 80	153.0	16.70	0.52	18.43	6.00

Dew.

Diffe:

Citta (6-045-18

Step Drawdown Test Record

Static Weatyr. D	9481	18.57						
Set Sing		Dischielege Ra	Ber (G)	200	in <sup>2</sup> hout		-	-
- Date	Time	Explaid	Titus of	Pumping	Witter Hered	Dt avoiont	(TW/#5)	
		Anti-	verit step.	120	5003	25x(m)	Water Issue	Drawdown
1.11		State5	(min)	(m <sup>1</sup> /hour)	10.000	1.1	(TW) Weber lawa 3 (mi) 16.43 1	28 671
8.018.13	7.00	63	0	150.1	16.20	0.52-	16.43	-0.04
		01	+	264.0	15.04	0.27	10.43	0.00
		60	2	202.0	16.15	6.28	16.43	0.00
		63	3	199.0	1615	0.39	16.43	0.00
	1	64	4	1-199.0	1618	0.29	16-83	0.05
		65	5	202.6	16.86	0.29	16.45	0.00
		6.6	8	098.4	46.00	0.29	10.43	-0.00
		67	7	203.3	16.07	0.29	10-413	.ó. car
		68	8	197.0	16.87	0.29	16.43	0.00
		69	8	199.2	15.15	0.30	16-#3	6.00
		70	70.	200.0	76.85	0.30	16 JU	0.00
		12	. 12	202.0	10.35	8.31	10.43	10.70
		74	- 14	202.0	15.88	0.31	10.43	8.09
		76	.95	203.0	16.000	0.31	16.43	10.00
		78	19	2910	10.00	0.31	16:44	.0.00
		80	20	200.0	16.88	0.31	10.84	0.00
		85	25	296.0	16.90	0.33	10.44	9.92
		-90	30	268.1	16.90	9.33	16.84	0.00
		95-	35	245.0	1610	9.85	10.43	0.00
		100	40	294.0	16.90	0.83	16.43	0.00
		105	45	206.1	16.80	9.55	16.43	0.00
		110	50	207.5	16.90	0.53-	16.43	-9.00
	-	115	- 55	200.0	16.90	0.83	18.43	0.00
	2.00	120	80	199.0	16.88	0.34	10.45	0.00

### Step Drawdown Test Record

					1.49 . 1.44	100.000		
Static Water L	erel .	101.57	m					
Srd Shep		Discharge Re	1P140	250	nitrioir			
Cente	Tirre.	Elapted	Time of	Purrend	Witter Invent	Drandove	(11)	(49)
		time.	0407-0240	100	a)m)	,25 (m)	Water West	Dreidsw
		(me)	imma	(m <sup>1</sup> bost)			3-390	20191
6-66-35	\$ 65	125	0	tós s	16 Bt	4.84	16.43	04.6
		121	1	251.0	10.95	0.38	16.43	0.00
		122	2	252.0	10.98	0.99	16.43	0.00
		1,23	3	254.0	16.97	0.40	16.45	0.00
1.1.1		124	-4	751.0	16.00	0.41	18.43	0.00
		125	5	240/0	16.98	0.41	16,43	0.00
		128	6	288.0	16.00	0.42	16.43	0.00
		127	1	254.0	16:09	0.42	16.43	0.00
		128	8	253.0	16.99	0.42	16.43	0.00
		129	9	257.0	16.99	0.42	16.43	0.00
		1.80	10	2910	16.99	0.42	16.43	0.00
		1.82	12	253.0	17.00	0.43	16.43	0.00
		154	10	249.0	17.00	0.43	10.43	0.00
		156	10	252.0	17(50)	0.43	10.43	0.00
		136	11	241.0	17.00	70.43	10.43	0.00
		540	20	254.0	16.20	0.42	16.43	0.00
		145	25	248.0	17.00	0.43	16.43	0.00
		150	30	2410	17 00	9.43	18 A3	0.00
		155-	35	261.0	17(0)	0.43	16.43	-0.00
-		160	40	249.0	17:00	0.43	16.43	0.00
		-59	45	248.0	17.05	.0.44	16.43	0.00
		170	50	250.0	17.02	0.45	16.43	0.00
		175	50	349.0	17(31	0.44	15.43	0.00
	ik 00	180	60	240.0	17.02	0.45	16.43	0.00

6-0:318

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Step Drawdown Test Record

See nearine	Chendo We	E HARD ANAD, WA	creater and a strategy and	_	Aura Pis	I W WE		
SINDS YHINK L	1988	16-57	15					
en 3/g		Drijcharge Av	e+191	-202	m <sup>3</sup> /movie			
Dese	Trol	Expland	Tires at	Funding	Witter Herry !	Dt alwateret	174	(#9)
		4000	Hoch step	nite	5002	21(11)	Water revol	Enalytics
1.11		(ran)	(We)	(m <sup>2</sup> basi)	1.1.1.1.1.1		3 (77)	20.000
\$-0(5-11	- 0.00	180	0.	249.9	17.62	0.45	16.43	0.00
		181	4	268.9	17.98	0.43	10.43	0.00
		162	2	267.2	17.9.8	9.47	18.43	0.00
		183	3	266.0	1704	0.47	10.43	0.00
	-	184	- A.	270.0	1704	8.47	18.43	0.00
		1.85	5	267.3	17.04	0.47	16.45	0.00
		180	6	268.0	11.04	0.47	10.43	0.00
	-	187	7	269.5	17.65	040	10-413	- ú cu:
		168	8				16.43	0.00
		169	0	54	ALLOL REAL FR. AVAILOUND	10.43	-6.90	
		150	90	200.0	17/02	0.45	16-83	0.00
_		192	. 12	2915	1704	0.47	16-#2	19.20
		794	- 14 -	291.0	17.95	0.43	18,43	0.00
		190	- 15	295.0	1705	0.48	16 dt3	0.00
	-	. 190	- 19	289.5	1705	0.49	16-63	0.00
		200	20	291.5	17.05	0.48	16.43	0.00
		205	25	290.3	17.05	0.49	16.43	0.00
		210	20	291.2	17.95	0.67	16.43	0.00
		215	- 25	297.2	17.65	0.48	10.43	0.00
		200	40	297.2	1710	0.45	16.43	0.00
		225	45	301.3	17.95	0.dy	16.43	-0.00
		296	50	299.0	17.05	0.49	16.43	0.00
		225	55	293.0	1716	0.49	16.43	0.00
	±0.00	343	85	287.0	17:05	0.40	16.43	0.00

Step Drawdown Test Record

SMANAT	Christian WM	Fluid Avez, WA	SA Farlandoid		WW/Net	TW #3		
SNES WIDH L	(PO)	-1957-	Ŵ	-				
Sth Step	_	Disutivity Re	Ete (Q)	250	m <sup>2</sup> mour			_
Date	Tirre.	Elapited	Time of	Purpled	Wight invol	Drandowe	(7)	(#9)
		<b>E</b> ma	ANCH STAD	Tate	a.(m)	Asim)	Water Invel	Drandown
		(mag	(mm))	(m <sup>1</sup> hoat)	1.00		5.00	(1111)
&0:d-12-	-10.00	240	0	287.0	17.06	0.49	- 18-45	0.00
		241	1	295.0	17.03	0.46	16.43	0.00
		242	2	258.0	17.00	0.46	18.43	0.00
_		245	3	260.0	17.02	0.45	16.43	0.00
		.244	4	254.0	17.02	0.45	16.43	0.00
		245	5	252.0	17.02	0.45	16.43	0.00
		245-	6	252.0	17.00	0.45	76.43	0.00
		247	1	255.0	17.02	0.45	16.43	0.00
		248	8	255.0	17.02	0.45	16.43	0.00
	-	249	9	249.0	17.01	0.44	36.43	0.90
		250	10.	250.0	17.01	0.44	1643	0.00
		252	12	252.0	17.01	10.44	15.43	5.00
		254	18	254.0	17.02	9.45	16.43	0.00
		256	16	252.0	17.02	10.45	10.43	0.07
		2/8	. 18	253.0	17 02	10.45	10.43	0.00
-		260	20	252.0	17.02	0.45	18.45	0.00
		265	25	253.0	17.02	.0.45	18.43	9.00
-		270	30	253.0	17.02	0.45	1643	0.00
		275.	35	252/8	17/02	0.45	18.43	0.00
		280	40	252.0	17.02	0.45	36.43	0.00
		285-	-45	253.0	17.02	0.45	16.43	00.0
		.290	30	253.6	17 62	0.45	1643	6.60
		- 26	55	253.0	17 02	0.45	16.43	0.00
	11.00	-360	80	253.0	17.03	0.45	16.43	6.00

0.0411

Des

Dille:

CHEV

100.12

Continuous	Test	Record
a of sall hard a p	10.00	8199-91 Q

Solution	Constant (10)	Cardonal, Inte	Con the statistic		tun (cs	10.00		
State: Weekye Li	yvilli -	16.02	- Di					
Ouch lings Ris	(0)	250	minour	_				
Deet	Time	Explud	Tina of	"Funping	Witter Heart	Dr dwddowrt	ITV	(#9)
		Anti-	VIDE TOOL	ingh.	simi	25:00	Weber Issue	Drawdown
1.00		Inters	(we)	(m <sup>2</sup> hou)	1.00		3.(77)	28:001
8.65.11	(2.60	10		66	1862	0.65	16,42	40.6
		1		2.47.0	15.30	0.27	10.42	0.00
		2	2	261.2	16.57	6.59	16.43	0.66
		2	3	252.0	16.10	0.33	16.42	9.00
		-4	1	232.0	16.15	0.31	16-42	0.05
		5	8	253.0	16.03	0.31	16.42	0.00
		15	8	261.0	46.93	0.01	0.42	-0.00
		7	7	250.0	16.65	031	10-402	ú ar
_		8	8	263.0	16.94	0.32	16.42	0.00
		0	8	253.0	16.94	0.82	10.4i2	0.00
		10	70	253.0	36.94	0.32	56.4E2	0.01
		12	- 52	253.0	10.947	U.32	16.40	0.0
		14	- 14	253.0	10.94	0.82	10.42	8.09
		10.	.95	253.0	10.95	0.53	16.402	10.00
		18	19	253.0	10.85	0.33	16.42	10.00
		20	20	253.0	16.95	0.33	16.40	00.00
		25	25	252.0	16.95	0.33	10.42	9.92
		80	20	253.0	16.95	9.33	16.42	0.00
		35	35	254.0	1616	9.85	18-42	0.00
		-40	-40	246.0	18.947	0.82	10 A2	0.00
		-45	45	347.0	16.95	9.55	16:42	0.00
		50	50	247.5	16.9.5	0.33	18,42	0.00
		55	55	259.0	16.99	0.87	16.42	0.00
	13.00	60	60	258.0	16.07	0.35	10.42	0.00
		70	70	257.0	16.99	0.37	10.42	9.00
		80 -	jiĝ	252.2	17.00	0.33	16.42	-0.01
		00	- 00	258.0	16110	0.37	16-42	+0.01
-		100	900	258.0	16.05	0.82	15.42	0.00
		110	110	253.0	1616	0.32	16-40	0.00
	14.00	128	120	255.0	18-15	0.33	10.42	10.10

### Continuous Test Record

SANTIAN	Chroke WM	Field Area WA	SA Fastasbed		WW/NO:	TW K3		
Static Water	Lenni	10.62	m	_				
Centrarge Ra	te (G)	260	in the second	_	_			-
Clean	Tirre.	Elispied	Type of	Purping	Veider heveil	Drandove	(TW	(49)
	121	terro (esai)	each rEep	nde (m <sup>2</sup> thour)	a (m)	,235 (11)	Water wild S-(m)-	Dimidser
		620	125	285.1	18.95	.6.53	36.45	3.60
		149	140	250.0	18 55	0.33	16.42	-8.01
		168	180	252.0	18.95	0.93	58.42	-8.61
	1510	190	180	258.0	16.95	0.53	16.42	-0.01
		.705	-301	258.0	16.95	0.33	18.45	-8.01
		210	220	259.7	16.95	0.33	16.42	0.00
	19.00	200	0.0	254.0	16.05	0.33	16.42	0.00

Date

Recovery Test Record

Statute Owingo We	Eist Anad, WAS	A Field Mod	WW So: TW #B	_
Status Veralus Luvest	16.02			

Dini	Tm+	Elepted	Rejectively Serve		Waper latered	Readval.	(7)	/#9)
		train) 4	Acritath Malp	ŧ¥	5 (11)7	X' (m)	Water livel	Physicial Crowiddwrth C (m)
LOLL	18:00	240	0		1616	0.33	18.40	0.00
	1	241	1	241	16.78	0.18	.15.43	-0.00
		242	2	123	16.78	011	16.42	0.00
		243	2	.81	16.78	0.09	15-42	-0.00
		244	4	-61	1670	D (8	16.42	0.00
		245	5	-49	1649	0.07	16:42	-6.90
		246	0.	-61	7679	0.10	36.412	0.00
		2:47	7	35	15.58	0.06	16-42	9.00
		248	8	31	18.68	0.00	16.42	90.9
		. 249	8	.28	16.57	0.05	16.42	0.00
		250	10	-25	10.67	0.05	16.42	0.00
		252	12	-27	16.63	0.05	16-40	0.00
		254	54	18	1687	0.05	10.42	0.90
		250	35	16	16.65	0.04	18-42	.0.00
		258	58	14	16.96	0.04	16,42	0.00
		260	20	13	16.50	0.04	18.42	0.00
		265	25	11	16.85	0.02	18.42	.4.00
		270	30	0	10.85	8.05	16.42	-0.00
	1	275	35	8	16.15	69.0	38.42	0.00
	1	280	-40	1	16.84	0.02	16.42	-0.00
		285	45	6	10.64	0.02	10.42	0.00
		290	50	\$	76.58	0.01	16-82	-0.00
	1	205	55	5	16.63	0.01	10-42	0.00
	17.00	300	60	5	15.82	0.00	16.42	0.00

Weil Interference Test Record

**Derv** 

740.611

Site Marie Chevab Web Field A	UNI, WASA FIR	the down	Will No (TW #8)				
State: Water Laive TW #0.	16.58		State, Wester Lucon TVV #9.	10.47	1.10		

Eathern 2										
Date	Time	Elipted	Trys.of		Tity #8	-		TWIND		TIY #10
		tea inti	each strip	Pumping table (m <sup>1</sup> /four)	Funcing water tarvat v (m)	Drawdonni Zir (m)	Punping 1861	Purraing Autor save	Drawdown	Pumpin tabe Sm <sup>2</sup> hou
7-045-13	-6.90	6	0	0.0	18.50	0.03	- bd	15.41	0.00	0.0
		1	- F	0.0	16.50	0.00	0.0	1641	8.00	424.0
		2	1.2	0.0	16.49	-0.01	20	16.41	0.00	434.6
	-	3	3	0.0	16.49	-0.01	0.0	1041	8.00-	371.8
1.1.1		4	4	0.0	16.49	-0.01	0.0	16.41	0.00	371.7
1.1.1		1	5	0.0	16.49	-0.01	0.0	10.41	0.00	3717
		- 6	- 6	0.0	16-09	.0.01	0.0	16.41	0.60	424.6
		7	7	0.0	16-49	-0.01	0.0	16.41	0.00	371.7
				0.0	16.49	-0.01	0.0	16.41	0.00	424.6
1.1.1		÷.	9	0.0	16:09	.0.01	00	76.47	0.00	3717
		10	18	0.0	18-49	-801	00	16.41	0.00	3718
		12	12	0.0	16.49	-0.01	00	15.41	0.00	298.2
		14	14	0.0	16.49	0.01	00	10.41	0.00	3717
		10	16	0.0	16.49	-0.01	00	1641	0.00	3717
1.1.1.1		18	78.	0.0	16.40	-0.01	0.0	18.41	0.00	3717
1.1.1		20	20	0.0	16:49	-0.01	0.0	1641	0.00	3717
		25	25	0.0	16.43	-0.01	0.0	<b>TEAT</b>	0.00	2717
		30	30.	0.0	16.43	10.01	0.0	76.41	0.00	382.8
		25	- 25	0.0	16.49	-9.61	0.0	16.41	0.00	3717
		-83	40	0.0	16.49	-0.01	.00	76.41	0.00	352.8
		-45	45	0.0	16.43	-5.01	05	1641	0.00	321.8
		50	50	0.0	16.49	-8,01	0,0	16.41	0.00	3717
		55	55	0.0	16.40	-0.01	0.0	1841	0.00	3717
	2.00	20	10	0.0	10.45	10.04	100	10.41	0.00	305 8

7485-52

Date

7.0.6.43

DAIL

Well Interference Test Record

SNI Name	Chemidd W	WENDAN	a, WASA'EA	twich/lith		VWFNo:	TW #8		_	_
Rant Wiles	ri.enél Tvě	( <b>3</b> 43)	16.50	m		State: Week	S Level TW	49.	10.41	= 16
Recovery	_			_						_
Date	Tarea.	Eligited	Time.68		TW/#8			TW/RS		TWWTD
		timo (mn)	with step	Pumping NB4	Pumping water raiva	Drawdown	Pumping Net	Pumping Weber Invel & (m)	Drawdown 2ds (m)	Pumping ratil (m <sup>9</sup> /boar)
7-0.6-13	7.00	60	0	9.0	15.49	-0.01	0.0	18,41	0.00	0.0
_		-61	1	0.0	3.6.49	-0.03	8.0	16.62	0.00	0.5
		62	- 2	0.0	18.49	-0.01	0.0	10.41	0.00	0.0
		63	3	0.0	16.49	18.0	0.0	8.41	0.00	0.0
		-64	4	00	>8.49	-0.01	0.0	16.41	0.00	0.0
		- 65	5	00	65.49	10.01	00	16.41	0.00	0.0
		156	- <u>b</u> .	0.0	78.49	-10.ÚT	0.0	65.41	0.00	-0.0
_		-67	1	0.0	18.49	-0.01	00	10.41	0.00	0.0
		. 68	8	.09	18.49	-0.07	00	19.41	0.90	40
		- 69		00	16-49	10.01	0.0	76.00	000	0.0
		70	-10	- 8.0	18.49	-0.01	20	15 41	010	70.0
		72	12	0.0	35.49	-0.01	2.6	10.41	0.00	6.0
		74	54	0.0	16-49	0.01	0.0	10.41	.060	0.0
		76	16	0.0	16.49	10.01	0.0	15.41	0.00	0.0
		78	18	00	16.40	-0.0t	5.0	18.41	0.00	0.0
		初	25	0.0	10.49	-0.01	22	19.41	0.00	0.0
		-65	35	0.0	28.49	10.01	8.0	9.41	0.00	.0.0
		90	- 20	0.0	16:49	:0.07	0.0	16.41	0.00	0.0
		18	35	9.6	15.49	-D D1	8.0	10.41	0.80	0.0
_		100	-40	0.0	76.29	0.01	0.0	19.41	0.00	10.0
		105-	45	0.0	18.49	-0.01	0.0	10-41	-0.00	(0.0)
		1(0	50	0.0	58.49	-0.01	0.0	18 A T	0.90	0.0
		115	- 55	0.0	动物	-0.01	0.0	装料	0.00	0.0
	8.00	120	. 60	00	18.49	-0.01	0.0	10.42	0.00	0.0

## Weil Interference Test Record

Sp) Marrie (	Chanab W	WEEPWALADA	IL WASA FI	the drain	_	Will bis	TW #8			
Static Water	CLeyni 7V	(#1)	10.50	πi	_	Sate We	nici, queel TW	19:	16.41	- 10
Pattern 3	_	_	_				_	_	_	_
Dutte	Time	Elipted	Terrais		TW#8		<u> </u>	TWIND		TJY#10
		terni (min)	with step	Pumping tall	Flumping weiker terrer s (m)	Deswoone	Pumping Tible (m <sup>1</sup> m-out)	Pumping Aspet save	Drawdown	Pumpin Inte-
7-041-13	-8.00	120	0	0.0	16.49	-0.01	0.0	16.41	0.00	0.0
		724	1	-0.0	16.23	-0.01	279-1	5637	0.10	0.0
		122	1.1	0.0	16.49	-0.01	\$25.6	1663	0.22	:00
		123	3	0.0	16-49	.0.01	270.1	16.65	0.24	0.0
		134	4	0.0	16.49	-0.02	270.1	1668	0.25	0.0
		425	5	0.0	16.89	-0.01	279.1	16.67	0.26	0.0
		126	8	0.0	16-04	.0.01	279.1	16.bil	0.27	90
		727	.7	0.0	16.49	-0.01	325.6	16.68	0.27	0.0
		129	4	0.0	16.49	-0.01	279.1	1558	0.27	0.0
		329		0.0	10.49	+0.01	279.1	16.89	0.28	00
		330	10	0.0	18-49	-0.01	279-1	16.89	0.29	0.0
		132	12	0.0	16.49	+0.01	279.1	1670	0.29	00
		4,0	14	0.0	16.49	0.01	279.1	1670	0.29	0.0
		330	10	0.0	10,49	10.01	202.3	16.70	0.29	00
		138	715.	0.0	tó Alà	-0.01	279.1	16.71	0.29	00
		140	22	0.0	16.49	-0.01	279 T	1871	0.30	9.0
		845	25	0.0	16.49	.001	208.4	16.72	0.31	00
		150	80	0.0	10-49	-9.01	200.4	16.72	0.011	00
		155	- 35	0.0	16.48	-0.02	288-4	15,73	0.32	0.0
		160	. 40	0.0	16.48	-9.02	279.1	16.78	0.32	0.0
		105	45	0.0	10.40	-8.07	-289 A	1673	0.32	00
		578	50	0.0	16.48	-8.02	279.1	1673	0.32	0.0
-		175	55	0.0	16.48	-0.05-	288.4	16.74	0.33	0.0
	-9.00	100	60	0.0	18.66	0.16	288.4	16.75	0.34	0.0

9.00 LD

Dige.

Well Interference Test Record

Const Constant and Taking 18, 50 ms. Const States of Taking 19, 18, 18	Ste Nerve Chanup Web Field /	illia, WASh File	Terchille	YWE NO. TVY HE		
part could from the set of the se	States Statistic Line of TAY 46	推制	19	Staty; Watter Level Torces.	-15.41	= m

Patien +										
088	Tares.	Elapited	Titte 68		TWY #6			TW/#1		TVVW10
		trpa-	each step	Pumping No. (m <sup>1</sup> tuour)	Pumping weter nive % (m)	Lisensonni Lisensonni	Pumping 1489 (m <sup>1</sup> /bour)	Pumping Weber Invol 5 1011	Druedown ∠3 (m)	Parrieng rate Infinair
7-0:6 13	9.00	183	0	90-	18,66	0.15	288.4	18.75	0.34	0.0
		181		277.0	28.75	0.25	279.1	-91.75	0.34	.0.0
		182	3	273.0	18.18	0.28	379.1	30.75	0.34	0.0
		183	3	273.0	18/01	0.31	279.1	.6) 75	0.34	0.0
		184	4	210.0	18-78	0.28	479.1	-98.78	0.32	0.0
-		185	5	220.0	ML77	0.27	232.0	10.72	0.31	0.0
		587	6	0.110	36.77	0.27	732.8	10.72	032	0.0
		187	1	213.0	n#.78	0.78	270.1	18.72	0.31	0.0
		189	8	267.0	18.04	0.84	232.5	10.75	0.34	0.0
		187		200 Q	10.15	0.85	325.8	-95.75	0.34	0.0
		190	- 10	290.0	26.07	0.87	279.1	95.76	6.35	
		192	- 12	291.0	16.58	0.58	3023-	15.77	0.36	9.0
		194	154	217.17	16.69	0.39	302.3	50.77	0.36	0.0
		199	- 16	292.0	7.8.69	0.39	302.3	10.77	0.36	0.0
		108	18	267.0	16.60	0.39	379.1	他,77	0.36	0.0
		200	20	288.0	18.90	(0.4)	279.1	18.77	0.36	0.0
		205-	25	265.0	26/00	04.0	297.7	6.77	0.36	0.0
		210	.30	290.0	18.90	0.40	20.7	65.75	0.36	0.0.
		215-	35	293-0	18.92	0.42	297.7	18.78	0.37	0.0
_		220	-40	290.0	76-92	0.42	.296.1	18.78	0.27	4.0
-		225-	45	247.11	12.10	442	245.4	6.71	637	4.0
		230	50	293.0	58.98	0.43	297.7	6.79	0.38	0.0
		333-	- 55	295.6	18.65	8.43	388.4	-8.75	0.38	6.0
	10-00	262		2045 K.	44.01	0.43	7000.4	10.20	0.30	0.0

Weil Interference Test Record

7-0.6 11

Daw

filte Marte Charles Web Field A	ona WASA File	the does	Will biz (TW #8)				
State: Water Leiver TW #0.	16.58		State Wester Lucon TVV #9.	10:47	1.10		

Pattern 5							-			
Date	Time	Elipted	Term of		TIV #8			TWIND	1	TW #10
		504 (m)	each strip	Pumping take (ni <sup>1</sup> thour)	Funcing Hater tand 1 (m)	Dawydaeni 2h (m)	Pumping HBB: (cr/thour)	Furrieng Auspir save SE (M)	Drandoatt	Pumpin NBI Im <sup>2</sup> thou
7-0:0-13	10.00	240	0	288.5	16.93	0.43	288.4	16,79	0.38	- 9.0
		341	- F - 1	276.0	16.93	0.41	279.1	16.78	0.37	218.0
		342	- 2	282.0	16.93	0.43	279.1	1678	0.30	371.7
		343	3	284.0	16-93	0.43	279.1	1678	0.30	321.0
		344	4	281.0	16.93	0.43	270.1	1.6.78	0.36	318.6
1		245	1	290.0	16.63	0.43	279-1	16.76	0.30	371.7
		348	6	262.0	16.92	0.42	279-1	1678	0.37	371.7
		347	7	275.0	16.02	0.42	270.1	16.78	0.37	3717
_		248		276.0	16.92	0.42	279.1	1878	0.37	424.6
		349	- 9	770.0	16.42	0.42	279.9	16.72	9.37	3717
		250	. 10	275.0	18.92	0.42	279.1	1878	0:37	3718
		252	12	270.0	16.92	0.42	279.3	1878	0.37	345.9
		254	14	278.0	16.92	0.42	279.1	1678	0.37	371.7
		256	16	275.3	16.93	0.43	279.1	1678	0.37	371.7
-		258	78.	278.0	tő.93	0.43	279-1	16.78	0.37	345.1
		250	20	275.4	10.93	0.43	279.1	16.79	0.38	3717
		- 25	25	275.0	16.93	2.43	279.4	16.78	0.36	311.1
_		370	30	278.4	16.94	0.44	279-1	16.78	0.37	361.1
		275	35	277.4	16.94	0.64	.279.1	1878	0.37	361.7
		20	-82	275.0	18.94	A4 (	279.1	16.78	0.37	361.9
		345	蒋	226.4	16.64	16.44	279.1	1670	0.57	361.1
		290	50	381.4	16.95	0.45	279.1	1678	0.37	361.1
		38	- 55	275.0	预留	6.45	270.1	16.70	0.38	361 8
	10.6.00	int.	10	3840.0	10-05	i) at	1000 k	10.10	0.10	201.0

Date:

Step Drawdown Test Record

10.0.0.12

Stetherite	Owindo Web	Eist Ankl, WA	S4 Field/bad		Wild No.	TWINS		_
State: Weekye L	yetti 👘	18.78						_
Lit Skp.		Dischielege Ra	5or (Q) :	150	m <sup>2</sup> hoar	_		_
-Devi	Time	Expand	Time of	Pumping	Witter Henry	Dt dwolowet	(TW	#3 <sup>-4</sup> ).
		Arria	veriti step	rate.	smi	21sim)	Wuter Issue	Drawdow
1.00		State5	(we)	(m <sup>1</sup> hou)	1.0		\$ 070	28 611
医白色 陆	8.00	- 10 ·	0	0.0	18.78	0.60	i8-60	-0.00
		1	+	154.0	19.05	0.27	18,00	0.00
		2	2	160.0	1918	0.77	18.00	0.65
		2	3	150.0	19.04	0.26	18 QU	9.00
		4	4	130.0	10.04	0.58	18.00	0.00
		- 5	5	149.0	10.04	0.28	18.00	0.00
-		15	8.	3-48.0	19:05	0.27	18.90	-0.00
		7	7.	150.0	1905	0.27	18.90	ó ce
_		8	8	150.0	19.95	0.27	18 00	0.00
		9	8	151.0	19.05	0.27	18.50	6.00
		10	70	151.0	1925	0.27	18.90	0.01
		12	12	150.0	19:15	8.27	18.00	0.0
		54	- 14	149.0	19.05	0.27	18.90	9.09
		10.	.95	150.0	1905	0.27	18.90	0.00
		18	10	1-40.0	19.05	0.27	18.90	0.00
		20	- 20	1-45.0	10.05	0.58	18.50	0.00
		25	25	153.0	1905	0.28	18.90	9.92
		00	20	5-47.0	1007	9.29	18.50	0.00
		35	35	153.0	1960	9:29	18.90	0.00
		-40	40	148.0	19.97	0.29	18.50	0.00
		-45	45	545.0	10.97	9.29	18.90	0.00
1		50	50	153.0	19.07	0.29	18.89	-0.01
	-	55	- 55	548.0	1957	0.29	18.89	-019
	7.00	60	60	151.0	10.02	0.29	18.69	-0.01

### Step Drawdown Test Record

Shatir Water L	forest in	38.79	711					
plan, train c	6-414	110.70	111					
2red Shop	-	Discharge Re	(P148	298	nitroir			
Dete	Tirre.	Elapted	Time of	Purping	Windler herveit	Drimdove	(TW	#H4)
		time.	0.001-0240	184	a)m)	.25 (tr)	Water Neval	Dreidow
		1mm	imma.	(m <sup>1</sup> hor)	1.1.1.1.1	1.00	3-011	20101
8-0:0.15	7.65	dit	0	诗诗	t\$ 67	6.29	18 és	-861
		61	1	202.0	19.15	0.38	15.99	-0.01
		-62	2	201.0	13.66	0.58	18.69	-0.61
_		-13	3	200.0	19 86	0.58	18.82	-0.01
		-64	- 4	763.0	19.67	0.38	18.80	-8.01
		65	5	204.0	19.87	0.38	18.89	-0.01
		M.	6	202.0	10.07	0.00	18.89	-0.01
		-62	1	199.0	19.87	0.39	28.99	-40.01
		68	8	200.0	10.17	0.39	18.89	-0.01
		09	9	200.0	19.17	0.39	18.89	-0.01
		前	10	204.0	19.17	0.39	1819	-0.01
		72	12	198.0	19.87	0.39	18.88	-0.02
		74	19	2010	19.17	10.09	18.88	-0.02
		78	10	199.0	19.87	10.39	38.08	:0.02
		78	10	294.0	19.10	10.40	18.88	0.02
-		80	20	108.0	10 #8	0.40	18.88	-0.02
		85	25	200.0	19.88	9.40	18.88	-0.02
		<u>60</u> -	30	193.0	10.60	0.40	18.88	-0.02
_		45	35	TÚR Ó	10.13	0.40	16.68	-0.92
-		100	40	202.0	19.89	0.40	18.88	-0.02
		507	-45	202.0	19.80	19.41	15.88	-0.02
-		310	50	302.0	19.89	0.41	19.85	-8.65
		115	50	204.0	19 89	0.41	15.88	-0.62
	7:00	130	40	2000	10.80	0.41	18.65	20100

100418

Der

Step Drawdown Test Record

Section of	community (100	Contraction and	the subscription	_	0.00 (0.5	10003		
STADIC YHIMMILL	1940	18 70	15	-				_
100 300		Disthered Re	d+101	312	m <sup>2</sup> /riper			-
Dese	Time	Explant	Tites at	Funded	Witter Herry R	Dr avdowt	(7)%	#34)
		- 200	Hardh steep	nite	= (m)	24(11)	Water revol	Ekstyldow
		(ran)	(vin)	(m <sup>2</sup> bos)	1.00		3 (770)	20.001
8-06-15	1.00	120	0.	200.0	10.10	0.41	18.88	-0.02
_		121	4	245.0	19.25	0.47	18.63	-0.02
		122	2	753.0	19.27	0.49	50.00	.0.02
_		123	3	253.0	1928	0.49	18 80	-0.07
		124	- A	253.0	39.28	0.49	10.60	-0.67
_		128	8	250.0	10.27	0.40	18.68	-0.02
		120	6	257.0	1928	0.49	18.69.	-0.02
	1	137	7	252.0	19.78	0.49	18 64	-0.02
		128	8	2:52.0	10.27	0.40	18.68	-0.02
		129	0	262.0	19.27	0.49	18.68	-0.02
		130	90	252.0	19.28	0.50	18.00	-9.02
		1.32	. 12	252.0	19.28	0.50	16'89	-0.02
		134	- 14	253.0	1928	0.50	18.83	-9.02
		1.20	- 10	253.0	19.28	0.50	19.478	0.02
	-	1,30	19	254.0	19.29	0.61	18.808	0.02
		140	20	254.0	1929	0.51	18.68	-0.02
		145	25	254.0	19.257	0.51	18.88	-0.02
		150	20	254.0	1029	9.51	10.03	.0.02
		155	25	255.0	10.29	0.51	18.88	-0.02
		160	40	253.0	1930	0.52	18.88	-0.02
		185	45	264.0	19.30	9.52	19.88	.0.02
1.00		130	50	251.0	1929	051	18.67	-0.03
	1	175	55	251.0	19.29	0.51	18.87	-0.08
1	16.60	180	86	281.0	1030	0.63	f8.87	-0.03

Step Drawdown Test Record

GARDE AGRICATI	and t	111.78	W.					
State Artistic P	Marchi	14.15	10					
at Sha	-	Discharge Ra	(Q) (Q)	200	m <sup>2</sup> hrout			
Clean	Tirre.	Elapted	Time of	Purping	Wider Invet	Drimdove	(7)	at 41
1.1		<b>T</b> ITA	hach-stap	T din	a (m)		Water Invel	Draindown
1.		(met)	inma	(m <sup>1</sup> hoat)			3.00	20101
\$-0d-12-	0.00	180	0	2510	10.50	.0.52	18/07	-0.03
		181	1	\$10.0	19.37	0.59	18.87	-0.03
		102	2	203.0	19.20	0.60	18.87	-0.03
_		183	3	300.0	19.88	0.60	18.87	-0.03
		184.	4	305.0	19.88	0.60	19.87	-0.03
		185	5	3000	19.38	0.60	18:87	-0.03
	1	186	8	310.0	19.39	0.01	10.87	-0.03
		187	1	301.0	19.39	9.61	2010	-0.00
		188	8	298.0	19.39	0.61	18.87	-0.03
		189	9	204.0	19.29	0.61	18.87	-0.03
_		TNO	-10.	303.0	19.29	180	78.07	/0100
		192	12	297.0	19.39	081	18.87	-0.03
		194	18	\$00.0	19.39	(DE)	18.87	-0.03
		196	16	304.0	19.29	0.01	19.67	10.03
		198	18	299.0	19.29	0.01	19.87	-0.03
-		200	20	2950	10.39	0.61	18:87	-0.03
		205	25	309.0	19.89	0.81	18:87	-0.03
		210	30	299.0	19.29	0.61	38.87	-9.63
		.216-	35	319.0	10.50	0.61	18.87	-0.04
		220	40	3100	19-40	0.62	18.87	-0.04
		228-	-45	205.0	19.400	9.62	18.87	-0.03
-		285	30	506:0	19-60	0.65	38.07	-8.03
		285	35	310,0	19.40	0.62	18.87	-0.03
	10.00	240	66	.298.0	10.40	6.63	18:37	-8.63

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Date:

Step Drawdown Test Record

Dill/

10.0.0.12

Crister Materia	and in	19.75						
Sales, the state of	le al	19.14		-				
18 Sec		Desthalege Ra	ter (Q) Makim	em (Visitve Full	Coentrol			
Dese	Time	Expland	Timi of	Pumping	Witter Heisel	Dr avaiont	(TW	#3·4)
		Anti-	verit step	126	5001	_2(s)(m)	Water Issue	Drawdown
	1)	State5	(we)	(m <sup>1</sup> /basi)	1.0	10.00	3 (70)	28 611
医白色性	(4:60-	54)	0	298.0	19.40	0.62-	iù 87	-863-
		241	+	378.0	19.53	0.75-	18.87	-0.03
		540	2	342.0	1935	678-	18.87	- 60.6
		243	3	343.0	19.53	0.75	18.87	+0.03
		244	4	375.0	19.54	0.78	18.87	-0.03
_		245	5	3-89.0	10.54	0.76	18.67	-0.03
		248	8	375.0	1954	0.76	18.67	-0.03
		247	7	500.0	19.54	078	18.87	.0.04
		248	8	373.0	10.54	0.78	18.87	.0.04
		243	8	389.0	1954	0.76	18.87	-0.04
		250	70.	3740	1958	0.76	58.87	0.04
		262	12	3720	19.54	0.78	16 87	+0.04
		254	14	372.0	19.58	0.76	18.87	-0.64
		256	.95	3.73.0	1955	0.77	10.87	0.04
		250	19	374.0	1955	9.77	18.87	10.04
		260	20	374.0	10.55	0.77	18.57	-0.04
		265	25	3:54.0	19.55	9.77	18.87	-0.04
		2970	30	392.0	19.55	0.17	18.67	.0.04
		205	35	375.0	10.55	0.77	18,86	-0.04
		289	40	339.0	19.50	0.78	18.68	-0.04
		285	45	391.0	1850	9.78	10.00	.0.04
		290	50	374.0	19.56	0.73	18.60	-0.04
		295	55	390.0	1950	8.78	18 68	-0.04
	1100	300	86	3:02.0	10.57	0.70	18.66	1-0/04

### Continuous Test Record

Shite Water I	forest :	10.07	101					
STRUC WHEN L	0.411	1.0.03	- m		1			
Discharge Rat	121 e	250	about		_			
Ciede	Tirne.	Elapted	Time of	Purping	Wedger hervell	Drandowe	(7W	ala)
		time.	0407-0240	184	a)m)	.ds(m)	Water Well	Dreidow
		Linkit	inna	(m <sup>2</sup> host)	1	1.0	3-891	20191
8-0:0.33	12.60	. 0	0	0.0	18 63	0.00	诸位	3.65
			1	\$65.0	19.37	0.54	18.85	0.00
_		-2	2	347.0	13.59	0.56	19.防	0.00
_		3	3	545.0	19-40	0.52	19.85-	0.00
		4	-4	:350.0	19.41	0.53	18.85	0.00
		- 5	5	352.0	19,42	0.50	18-85	0.00
		B.	6	352.0	10.412	0.50	18.05	0.00
		7.	1	342.0	19.42	0.59	10.15	6.00
		8	8	3410	10.43	0.60	18.85	0.00
		9	9	349.0	19:64	0.61	18 85	0.00
		50	10	350.0	19.66	0.61	19.05	-0.07
		12	12	547.0	19:45	062	18.05	-0.01
		- 54	19	359.0	19.45	0.62	18.85	-0.01
		16	10	341.0	19,45	20.0	18.05	+0.01
		10	10	341.0	19.405	10.63	18.85	0.01
		-20	20	355.0	10.468	0.63	18.85	-0.01
		-25	25	356.0	19:40	9.63	18.85	-0.01
		36	30	£50.0	19.66	0.63	18.64	10.01
_		.45	35	349.0	10.47	0.64	18.64	-8001
_		49	40	\$45.0	19:47	0.64	18.84	-0.01
		-48	-45	846.0	19-00	0.65	18.84	-0.01
		. 59	50	3410	19-40)	0.05	18.84	-0.61
		55	35	349.0	19.49	0.66	18.84	-0.01
	13.00	60	60	345.0	19,40	0.66	18.84	-0.01
		70	70	-847.0	19.50	0.67	18.84	
		- 60	ii0	241.0	19.50	180	10.64	-0.01
		-90	10	347.0	10.50	260	18:84	-0.01
		100	100	348.0	19.51	0.68	18.84	-0.01
		110	110	247.0	19:51	85.0	20.64	-0.01
-	14.00	120	126	346.0	19.52	080	18.84	-0.01

Date Modela

Continuours Test Record

Stetlame Owner Well Field	Ines, WASA Freddatad	Wild Sta TW-815	_
State Weater Lawer - 1	1.8) m		

(initiarge H	ste (12)	350	million					
Dave	Time	Explore	Trus or	Function	Witter Hervel	Dr avdoret 1	(74)	#3-4)
		itees Stans	And the	inite (m <sup>2</sup> hour)	= (m)	$\Delta (n)$	Water wool s (m)	Etraydown 29-fml
		420	120	348.0	10.52	0.67	19.54	-0.01
		940	140	349.0	19.52	0.89	18.84	-0.02
		160	160	355.0	10.58	679	18.63	-0.02
	15.00	100	110	351.0	19.53	8.70	18 63	-8.07
	1	250	200	350.0	19.53	676	18.63	+ 0.67
		2520	220	3.27.0	10.53	0.70	18.63	-0.02
-	10:00	240	240	3,32.0	19.53	0.70	18.83	-0.01

Recovery Test Record

101111

Des

SMANAW Chanal W	# Flad Area, WASA Fastandard	YWETE TWEE	
SMER: WIRM Lawort	16.92 m		

Code	Time	Eulpoid	Kintovery crise	1.1	VStat, (ii Tesieli	Reptile	ITW	#141
		Birtui (mare) L	für vach date (mot it)	- M	8 (m))	¥ (m)	Water/Amil	Residual Direvidore 51(m)
\$0.4.12	18:00	345	0		19.53	0.70	18.83	-0.02
		241	1	241	18:50	0.16	18.83	-20.08
		242	2	121	18.96	0.13	18.83	.003
		243	3	104	10.95	0.12	18.63	-0.03
		241	4	61	18:04	0.11	18.83	-0.03
		245	5	-49	18.95	9.12	18.83	-0.08
		745	0-	16	接放	.0.09	1813	-0.03
_		147	7	35	18:92	10.09	18.83	-8.03
		348	6	31	18.82	0.09	18.82	-8.08
		249		28	19.91	0.00	18.82	10.03
		250	10	25	18.81	0.00	0102	10.00
		252	12	28	18:50	20.02	18.82	-0.03
		254	14	18	18:59	9.99	12:82	-0.03
		2%	16	16	19.89	0.08	18-12	-0.03
		258	18	14	博明	0.05	18 82	-10.03
		200	20	19	18.88	0.05	18.82	-0.08
		. 285	20	1.6	18-58	0.05	18 (2	-0.03
		270	20	9	19.88	0.05	19.02	-0.03
		275	25	4	18.87	0.04	18.82	-0.03
		280	40.	7	18:87	0.04	18.82	-0.03
-		285	45	. 6	18.86	0.03	作用.82	-0.08
	1	290	50	. 6	10.05	0.02	38.62	-0.02
		205	55	5	18:86	0.03	18.82	-0.03
	17.00	300	.60	5	18 86	0.03	18.82	-0.03

9-085-52

Date

AUGAS

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Well Interference Test Record

									110.00	
Real Week	CLemel Tyl	A NUT	18.72	m	-	Statis Water	IF LEVEL THE	814	19.02	
Patteri 2	-		_	_		-				-
Ose	Time."	Eligited	Time.68		TIVELS			TW.#14		TW#15
		timv	with taxy	Pumping https://	Pumping water nive	Drawdown	Pumping 1499	Pumping Weber Invel	Drawdown	Pumping rete
	_	(min)	(min)	(m <sup>1</sup> hour)	4.000	(四)	(mhair)	+(m)	28(11)	Im <sup>9</sup> /toir
8-0-0-13	6.00	0	0	- 90	1072	0.00	0.0	13.32	0.00	207.0
		1.	1	0.0	利用	0.00	.8.0	59.32	0.00	373.0
	_	2	3	0.0	111.82	0.00	0.0	58.32	0.00	31210
_		= 3	3	0.0	1079	0.08	0.0	10.12	0.00	381.0
		4	4	00	18.73	0.01	0.0	18.82	0.00	382.0
		5	5	00	18.73	0.01	00	0.12	0.00	372.0
		<u>ģ</u> .	- k.	0.0	76.72	0.00	0.0	0.12	0.00	-375.6
		7	1	0.0	1872	0.00	80	18 82	0.00	433.0
		*	8	00	18.72	0.00	0.0	18.62	0.90	493.0
		- 9		0.9	補政	0.00	0.6	前位	060	-8900
_		10	-10	0.0	1872	0.00	00	18 82	010	433 ù
		12	12	0.9	1872	0.00	.0.0	18.82	0.00	443.0
		14	- 54	0.0	1873	0.00	0.0	M 82	.060	25401.01
		16	16	0.0	1872	0.00	0.0	新校	0.00	440.0
		tii.	18	0.0	3872	0.00	0.0	t8.82	0.00	-443.0
		-20	-25	0.0	1872	0.00	9.9	18.82	0.00	433.0
		25	35	0.0	1672	0.00	0.0	59.82	0.00	365.0
		.30	- 20	0.0	2872	0.00	0.0	0.87	0.00	375-0
		35	35	96	48.72	0.00	0.0	18 82	0.00	\$75.0
		-40	-40	0.0	1972	0.00	9.0	5 k2	0.00	875.0
		-45	-45	0.0	78.62	0.07	0.0	10 02	0.00	3/5/0
	1.00	50	50	0.0	1872	0.00	0.0	18-82	0.00	175.6
		55	- 55	0.0	1872	0.00	0.0	18.82	0.00	-30000
	7:00	.00	. 60	00	18.72	0.00	0.0	18 82	0.00	417.0

## Well Interference Test Record

Spy Mamer	Chanab W	WEFULLAD	IL WASA FI	bia-loved	_	Well big	TWINS			
Statis Water	K Level 70	1013	18.72	πi		Sate Wile	nir.l, good TW	#14	18.82	- 10
Reportunery		_					_	_		_
Date	Time	Elipted	Terms of		TW #13	-		TW-818		TIVATO
		terni (min)	with step	Pumping take (m <sup>3</sup> hour)	Fumping water hand s.(m)	Drawdowin Lâs (m)	Pumping IBS: (m <sup>1</sup> mout)	Pumping Astor sive	Drawdown	Pumpini Ister (m <sup>1</sup> hoard
9-012-13	7.00	60	0	0.0	18.72	0.08	-0,0	18.82	0.00	0.0
		61	1	0.0	18.72	0.00	0.5	1882	-0:00-	0.0
		82	4	0.0	18 72	6.09	20	1882	0.00	
	-	83	3	0.0	18.72	0.00	:0.5	10.01	-8.01	0.0
		64	4	0.0	18.72	0.00	0.0	1.8.81	-0.01	0.0
		85	ş.,	0.0	18.72	0.00	00	1811	10.0	0.0
		56	8	0.0	18.72	0.00	.0.0	1001	10.0+	0.0
		67	7	0.0	18 72	0.00	00	16.81	:001	0.0
		68		0.0	18.72	0.00	00	1881	-0.01	0.0
		- 69	8	0.0	10.72	0.00	0.5	10.07	70.01	0.0
		70	10	0.0	18.72	0.05	00	1851	10.01	0.0
		72.	12	0.0	18 72	0.00	0.0	16.51	10.61	00
		74	14	0.0	18.72	6.00	0.0	1.6.87	(0.01	0.0
		70	10	0.0	18.72	0.00	00	38.81	10.01	00
		78	711.	0.0	18.73	0.00	0.0	18.61	-10 OT	00
		-80	29	0.0	18.72	0.00	9.0	1851	-0.01	20
		65	25	0.0	18.72	0.00	0.0	18.81	10.01	0.0
		90	80	0.0	18.72	0.00	0.0	1887	-0.01	00
		95	- 35	0.0	18.72	0.00	0.0	15.91	-0.01	0.0
		100	. 40	0.0	10.72	0.02	.00	10.01	10.0+	10.0
		105	45	0.0	16.72	0.00	00	3.6.83	10.0-	00
-		310	50	0.0	18.72	0.00	0,0	18.81	+0.01	00
-	_		- 55	0.0	18.72	0.00	0.0	18.81	10.0-	0.0
	-8.00	130	60	0.0	18.74	0.01	n o	1.6.81	-0.01	0.0

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Well Interference Test Record

As Name Chanadi WW Elaid A	Intelligence was was a wear	WWR No. TVV#13		
AND STORE LAND TO MAD	1872 世	States Water Lyna Torwise	推開	- 10

Pattern 3										
088	Tares.	Eligited	Tree 68		TW/#15			TW-#14		TW/#15
		tepa .immi	eech step	Pumping table. (m <sup>1</sup> thiosar)	Pumping water nive % (m)	Estendanti di (m)	Pumping 1489 (m <sup>1</sup> /bour)	Pumping Webert Invol 5 101	Druesdown	Parrieng rate Infinair
804.13	8.08	120	0	90	157f	-0.01	0.0	13.31	-0.01	0.0
-		121		90	26.71	10.01	336.0	62.58	0.32	.0.0
		122	- 2	00	10.71	-0.01	337.0	-19.15	0.38	0.0
	_	123	3	0.0	28.25	-0.01	391.0	.53.18	0.36	0.0
		124	4	00	1871	-0.01	342.04	19.10	0.37	0.0
		125	5	0.0	/18/71	-0.01	302.0	19:20	0.38	0.0
		128	- 6.	0.0	26.71	70.01	329.0	02.20	0.38	0.0
		127	1	0.0	\$8 <i>7</i> 1	0.01	326.04	59.20	0.38	0.0
		128	8		15.71	0.01	327.9	19.21	0.29	10.0
		129		0.0	2071	70.ÚT	327.0	19.21	0.39	.0.0
		130	- 107	-00	13.871	-0.01	328.0	19.21	0.39	- 10
		132	-12	-00	3871	+0.01	340.0/	19.23	0.41	12.0
		134	- 54	0.0	1871	0.01	341.0	19.24	0.42	0.0
		138	- 16	0.0	1872	0.00	23410	19:23	0.41	0.0
		138	18	0.0	3872	0.00	332.0	19.23	0.41	0.0
		140	-20	0.0	1872	0.00	.333.0	19.23	0.41	0.0
		145-	25	0.0	1075	0.00	328.9	63.24	0.42	0.0
-		150	.30	0.0	1872	0.00	332.0	0). 25	0.45	0.0.
		155-	35	66	1572	0.00	335.IV	19.26	0.44	0.0
_		160	-40	0.0	1072	0.00	327.9	61.25	0.44	41.0
		165-	45	6.0	活動設	0.60	338.6	64.56	<u>644</u>	4.0
		170	50	0.0	1872	0.00	334.6	19.26	0.44	(0.0
	1	175	.85	0.0	相對	0.65	331.0	59.37	0.45	0.0
_	0.00	180.	- 66	0.0	10.73	0.00	2210	19.37	0.45	0.0

### Weil Interference Test Record

Ste Marie Chanab Well Field A	URIA, WASA File	wided -	Will blo TW #13		
State: Willy: Lyny: TV: 912	11.72	10	STATIC VENTION LINON TW #14	10.92	- H

Eathern 4	-		-				-			
Date	Time	Elipted	Elipted Trees		TW #13			TW #12		TIV #15
		504 (m)	each strip	Pumping take (m <sup>1</sup> thou)	Funding water tana x (m)	Drawdonni Zh (m)	Pumping Hitelii (cs/thour)	Furriping Autor save (\$1991	Drawdoen	Fumping tabe Sm <sup>2</sup> thou
9-042-13	-9.00	180	0	0.0	18.72	0.03	.331-0	19.27	845	0.0
		381	- F - 1	252.9	19.22	0.50	317.0	1927	0.45	0.0
		152	. 4	352.9	19.25	0.53	\$25.0	1926	0.64	90
		103	3	352.9	19.29	0.57	\$27.0	1927	0.45	. 00
		184	4	252.9	19.31	0.59	313-0	19.26	0.44	0.0
1		485	5	352.9	19.32	0.60	312-0	19.20	0.44	0.0
		186	. 6	252.9	19.33	10.0	329.0	19.77	0.45	0.0
		187	7	252.0	19.33	0.81	317.0	t0.27	0.45	0.0
_		188		4118	19.84	0.62	324.0	1927	0.45	0.0
1.1		794	- 9	252.9	19.35	0.63	300.0	1976	0.44	90
		190	10	352.9	19.85	0.03	313-0	19.20	0.43	0.0
		792	12	352.9	19.35	0.63	307 0	19.26	0.43	0.0
		154	14	302.4	19.35	0.64	309.07	19.20	0.44	0.0
		196	16	352.9	19:30	0.64	309.0	1920	0.64	00
1.1.1.1		190	78.	382.4	10.37	0.65	308-0	5000	0.44	0.0
1.1.1		300	20	252.9	19.37	0.65	306-0	1926	0.43	0.0
		285	25	276.5	19.87	0.65	819.0	19.27	0.45	00
		210	30	264.7	19.58	11.68	319.0	10.27	0.45	00
		215	35	376.5	19.39	0.67	.514 0	1938	0.48	0.0
		220	-83	376.5	19-80	4.69	809-0	19.27	0.45	0.0
		225	-45	£166	19-40	88.0	.506-0.	10.27	0.45	őő
		230	50	3547	19.43	0.68	\$11.0	19.38	0.48	0.0
100		385	55	364.7	10:41	0.65	315.0	10.26	0.48	60
	10.00	240	60	262.9	19.41	0.69	100.0	19:27	0.45	0.0

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10-001-02

Date:

DHM AUG-13

Well Interference Test Record

Date Miles	e Landi Tvi	WER.	1822	100	-	Theory Mark	a Long TW	all i	10.07	
NBN THEF	a Landa La		10.44		-	2005. 17.00	in David 111	M 144	19-19	
Patient 5						-	_			
Ose	Tares.	Eligited	Time.68		Tivati	-		TW.#14	_	TVV#15
		timi	witch steep	Pumping Mol.	Pumping water nive	Drawtown	Pumping. 1499	Pumping Webert Inval	Drawdown	Pumping 7666
1.1		(min)	(min)	(minour)	0.076	de (m)	(militair)	+ (m)	28 m	in nor
9-0-d-13	10.00	240	0.	352.9	19:41	0.69	300.5	19.27	0.45	332,6
		20	1.1	. 552.9	19.40	0.68	292.0	19-58	0.44	335.0
			2	352.9	19.40	0.68	.293 D	19, 26	0.64	341.0
		243	3	352.0	19.85	0.61	264.0	0.%	0.44	338.0
-		244	4	352.9	19.40	0.68	208.0	69.26	0.44	338/0
-		245	5	252.9	19.40	0.68	292.9	09.26	0.44	342.0
	_	245	- <u>k</u> .	262.4	29.40	0.68	298.0	19.26	0.44	3450
		247	1	352.9	19.41	0.69	284.0	19.26	0.44	3410
		248	8	252.9	39.41	0.69	295.9/	19.26	0.44	238.6
		269		252.9	33.61	0.09	7920	19.26	0.46	328.0
		250	- 107	352.9	29.40	9.8.9	282.0	19.20	0.44	335.0
		202	12	382.4	1940	8.68	213.0	19.25	0.44	- 534.0
		254	- 54	323.5	179.41	9.69	282.0	19.20	0.44	\$\$0.0
		256	- 16	382.4	12:41	0.69	255.0	19.20	0.44	233.0
		258	18	352.0	19.41	0.60	293.0	19, 26	0.44	338.0
		250	25	352.0	19.41	0.69	293.0	19.26	0.44	- 334.0
		.255-	35	352. ä	19.46	0.60	294.0	69-26	0.44	338.0
		270	- 240	852.0	29,45	0.60	203.0	eh.27	0.45	334.0
		275-	35	352.9	19.41	0.59	293-0	19-27	0.45	345.0
		.180	-40	352.0	2.9.41	0.00	2923)	99.27	0.45	332.0
		205-	-45	352.9	29.42	0.70	292.0	51.22	0.45	371.0
	100	290	50	352.9	19.42	0.70	283.0	19.27	0.45	345.6
		205	- 55	352.0	19.43	0.24	203.0	-59-27	0.45	3300
	11/00	-300	. 60	352.9	19.43	91.0	295.0	19.27	0.45	335.0

### Step Drawdown Test Record

Static Weber L	evel .	1.6.18	m					
tal Sarp		Descharge Ra	(P140	152	witten			
Cinte	Tirre.	Elapsed	Time of	Purreing	Wester hereit	Drimdovje	(79)	#22j
		1079	0401-0240	104	0(m)	,cfs (11)	Water Naval	Dimition
	1	1ews	imma	(m <sup>2</sup> bos/)		1.1	3-810	.26191
it add	6.03	0	0	0.0	扬始	0.00	捕猪	04.6
		4	1	154.0	16.26	0.08	15.86	0.00
		-2	2	162.0	10.39	0.21	10.00	0.50
		3	3	155.0	16:54	Q 16	16.86	0.00
	1.1.1	4	-4	(53.0	16:32	0.14	18.88	0.00
		5	5	150/0	16.30	0.12	16.88	0.00
		B	6	155.0	16.29	0.11	16.36	10.00
		7.	1	16210	16:29	0.01	td itd	0.00
		8	8	1510	16:29	0.11	16.86	0.00
			9	152.0	16.29	10 11 f	16.88	0.00
		50	10	152.0	16.29	0.51	7576	0.10
		12	12	148.0	18.29	0.11	16.05	0.00
		- 54	10	150.0	10.28	10.10	15.85	0.00
		18	10	151.0	10.20	30.10	10.05	0.00
		10	10	152.0	10.29	0.11	15.05	0.00
		-20	20	149.0	16:29	0.11	16.85	-0.01
		-35	25	152.0	16.28	212	16.85	-9.91
		38	30	151.0	16.20	.0.10	18.05	-961
		45	35	1\$0.0	16:29	01.0	16.85	-0.01
		49	40	152.0	16:28	0.10	18.85	-0.01
		-48	45	154.0	16.28	ID 10	18.85	-0.01
		40	50	150.0	16:20	0.10	16.05	-0.01
		- 55	30	153.0	18:28	.0.10	10.85	-601
1.000	7.00	- 60	- 60	149.0	16.28	0.40	18.85	-0.01

19-00-13

Der

Step Drawdown Test Record

SERIE VHILL	WHE:	-10.10	15					
pid:him		Drjtharge Ra	e+101	399	m <sup>2</sup> hour			
Dese	Time	Expand	Timi at	Pumping	Witter Hered	Dt alwateret	(74)	#2:22
		- 200	and step	rice	= 907	20(11)	Water week	Ekalydow
		(rees)	(we)	(m <sup>1</sup> boii)	1.0		3 (1970)	28-611
10-04-13	- 7.00 -	-60	0.	1-49.0	16.28	0.10	16.85	-0.01
		-0.1	4	202.0	16.28	8,10	10.65	-0.01
		62	2	201.0	36.30	0.12	16.65	-0.01
		63	3	203.0	16.35	813	16.65	+0.01
		64	- A.	201.0	1634	0.0	16.85	-0.01
		65-	5	200.0	10.3 %	0.13	16.65	-0.01
		0.0	6	205.0	16.32	0.54	10.65	+0.01
		67	7	2010	1632	0.14	10.05	-0.01
		68	8	2:02.0	16.32	0.64	16.66	-0.01
		52	0	201.0	16.22	8.14	16.65	-0.01
		10	10	264.0	1632	0.64	16.85	.0.01
		P2	. 92	240.0	18.32	0.14	16.85	-0.01
		74	- 14	1980	16.32	0.14	16.85	-0.01
		76	.95	1:20.0	16.32	0.14	16.65	-0.01
		TO	- 19	1:99.0	16.32	0.14	16.85	0.01
		50	20	198.0	16.32	0.14	16.85	-0.01
		85	25	196.0	16.31	0.13	16.85	-0.01
		90	30	196.0	16.3.7	0.03	16.85	-001
		96-	25	197.0	16.37	0.13	16.85	-0.01
		380	40	999.0	16.32	0,13	16.85	-0.01
		165-	45	197.0	16.37	阜13.	16.85	-0.01
1000		110	50	197.0	16.37	613	体肠	1.0.01
		115	55	198.0	1637	0,13	16,85	rH6
	7.00	120	85	±97.0	1635	0.64	16-85	-0.01

Step Drawdown Test Record

DAME- MURRAY LO	and the	36.10						
2085/1999 L	for fi	716-10	10					
3.9.0kp	-	Dijetrarge Ri	(Q) (G	250	m <sup>2</sup> how		_	
Conte	Tirre.	Elapited	Time of	Purping	Wedler Neveri	Drimdove	(79)	#22]
		fille	ANCH STAP	rde	a (m)		Water Invel	Drandow
		Jewey.	(INTER )	(m <sup>1</sup> hoat)	1		3.00	(Asia)
10.045-02	8.03	120	0	107.0	16.52	.0.14	- 18.85	-0.01
		121	1	249.0	16:54	0.15	10.05	-0.01
		122	2	251.0	16.35	.0.17	18.05	-901
_		123	3	2810	16:35	0.12	16.85	-0.01
		524	- 4	251.0	16.35	0,62	16.85	-801
		125	5	2510	16.35	0.17	18.85	-0/01
		121	6	292.0	10.35	0.12	10.85	-0.01
		127	1	362.0	16.25	0.42	16.16	-10.01
		128	8	251.0	16.35	0.17	16.85	-0.01
		129	9	252.0	16.35	0.17	10.85	-0.01
		130	10.	358.0	16.26	0.08	16.15	40.01
		132	12	258.0	18.35	10.18	16.05	-0.01
		134	18	250.0	15.36	ID 18	16.85	-0.01
		136	10	251.0	10.20	10.10	10.05	-0.01
		150	10	250.0	10.30	10.50	10.85	-0.01
		140	20	253.0	16.56	.0.48	16.85	-0.01
		345	25	250.0	16.36	.0.18	18.85	-0.01
-		150	30	253.0	16.26	(0.10)	16.15	-9.01
		155-	35	298-0	16.20	0.18	18-85-	-20.01
		160	40	252.0	16.35	0.18	35.88	0.60
		188-	45	251.0	16.26	67.03	10.88	0.00
		170	30	251.0	16.38	i), 58	16.18	iā ģā
		175	55	249.0	16.55	0.18	16.85	0.00
	ik.60	180	66	253.0	16.56	0.48	18:84	-0.62

10-06-13

Daw

GMA 19-043-15

Step	Drawdown	Test	Record	

State: Weekyn L	9481	91.18		-				
-m 3m		Dischutege Ra	Rev [Q]	300	m <sup>2</sup> hout			_
Dese	Time	Expland	Timest	Pumping	Witter Hered	Dr avdowe	(TW	#2:22
		Artik	vecti step.	126	smi	_2(m)	Witter Issue	Drawdown
1.00		31005	(we)	(m <sup>1</sup> /hour)	1.0	10.00	\$ (77)	Zistent
(0-0ct-13	11.00	TÉG	0	255.0	18.36	0 (8-	16 84	-862
		181	+	309.0	16.38	0.20	16,84	-0.02
		182	.2	301.0	10.30	0.21	10.04	-0.02
		183	3	303.0	16:39	0.21	16.64	+0.07
		184	4	364.0	16.40	0.02	15.84	-0.02
		165	5	302.0	16.40	0.22	16.64	-0.02
		466	8	302.0	15.40	0.27	10.84	-0.02
		187	7	301.0	16.40	0.39	10.84	¢0.0.
		168	8	301.0	1640	0.22	16.84	.0.02
		193	9	302.0	15.40	0.22	16.84	-0.02
		190	70	303.0	764D	0.22	\$6.6M	0.02
		192	- 52	299.0	18.40	U.22	16:84	-0.02
		194	34	303.0	16.4D	0.92	16.84	-0.02
		190.	.95	302.0	16.40	0.22	16.854	-0.02
		195	10	2010	10.40	0.22	15'894	10.02
		260	20	303.0	16-40	0.22	16.84	-0.02
		205	25	302.0	1640	0.22	16.84	-0.02
		210	20	362.0	16.40	9.22	16.84	.0.02
		215	15	364.0	16-40	0.22	16 (84	-9.02
		220	40	303.0	16.40	0.22	10.84	-0.02
		225	45	364.0	15.42	9.28	16.84	.0.02
		230	50	302.0	16-67	0.23	16.84	-0.07
	1	228	- 55	301.0	16.47	0.23	16 B4	-8 (12
	10.00	240	60	3010	18-41	0.73	16.64	+0.02

## Step Drawdown Test Record

Date

10-000-02

	Contrato vitale	- ab erea ma			Long real.	(interest		
Static Water L	0.00	1.6.18	- 10					
9th 33eg		Docharge Re	(D) (D) Maron	in (Vigni Fall	Openedi			
Ciede	Tirre.	Elinguist	Time of	Purping	Vester have	Drandove	(79)	#22j
		1010	0407-1040	184	4(m)	.ds (m)	Water loval	Drawdow
		(IPAR)	imma	(m <sup>2</sup> bost)	1. 1997	1.2.2	3.00	20191
16.518.13	10.00	340	8	301 à	18-61	6.23	35.84	-8.65
		241	1	480.0	10.51	0.33	35.84	-8.62
_		202	2	-862.0	10.53	0.94	30.84	-0.62
_		243	3	-482.0	16.54	0.50	16.84	-0.02
		244	- 4	482.0	16.54	0.58	18.84	-8.02
		245	5	-48210	18.54	0.36	16.84	-0.02
		246	6	482.0	16.54	0.36	16.84	-0.02
		247	1	-412.0	16:55	0.32	36.84	-0.02
		243	6	482.0	18.55	0.37	16.84	-0.02
		249	9	.#82.0	16.55	0.87	16.84	-0.62
		20	10	-49(2.0	10.55	16.0	16.64	可放
		252	12	-482,0	18.55	0.57	10,84	-0.02
		254	10	482.0	10.55	0.07	15.84	-0.02
		256	10	idi(2.0	10.55	10.37	10.04	-0.02
		258	10	-402.0	10.55	30.37	15.64	19.92
		260	20	-#82.0	18.55	0.37	18.84	-0.02
		285	25	482.0	16.56	9.38	16.84	-0.02
_		279	30	-840 ()	16:53	0.35	16.04	-9102
_		275-	35	-492.0	10.50	0.30	16.83	-8039
		280	40	-482.0	16 55	0.38	35.83	-0.03
		285	45	-864 (7	16.56	0.66	16.83	-0.63
			50	-865.0	16:57	0.59	16.93	<0.03
		. 26	50	-483.0	16.57	0.59	15.83	-0.03
	11:00	300	80	-880.0	16.57	0.29	18.83	-0003

A- 96

19-06-13

Date

Continuous Test Record

Statur Manater I.	1.00	-06.10						
othe reality	1981	26-24	- 0					
Cettarge Ha	(9) 0	400	miltisur		_	_	_	_
Dave	Time	Explor	Titul of	Funding.	Witter Heyel	Dr wyddowrt 1	(74)	#2:2)
		200	April Step	Hite	0.007	24(11)	Water revol	Enaydow
1.1.1.1		Inters.	(We)	(m <sup>2</sup> how)	1. 1. 1.		\$ (1970)	29.611
19-0(3,12)	12:00	10	0.	0.0	16.18	0.00	16.83	10.00
		1	1	495.0	15.45	0.25	16.83	0.00
		2	2.	498.0	16.47	9.29	16.83	0.00
		, Э.	3	396.0	16.46	8:38	16.83	0.00
		- M	A	400.0	16.48	5:29	16.83	0.00
		5	5	3/98-0	16.47	0.29	16.63	0.00
		-10	6	400.0	10.42	0.29	10.63	-0.00
	1	7	7	400.0	16.47	0.2%	16.63	-0.02
		.8	8	400.0	16.4X	0.29	16.63	.0 Ol
			0	34910	15.47	0.29	10.03	6.00
		10	90	3.80.0	16.48	0.54	16.63	0.00
		12;	. 92	.001.0	18.47	0.29	16 BJ	10.00
		14	- 14	397.0	15.47	0.29	15.83	0.00
		3.0	.05	412.0	10.48	0.50	16.83	00.07
	-		19	405.0	1648	0.30	16.83	0.00
		20	20	400.0	16.48	0.30	16.83	0.00
		25	25	402.0	16.48	0.30	16.83	0.00
		00	30	402.0	16.49	9.31	16.82	-0.01
		35	25	413.0	16:40	0.31	16 B2	-0.01
		-40	40	408.0	15.50	0.82	16.82	-0.01
		-45	45	3.07.0	15.49	9.31	16.82	-9.01
		58	-50	400.0	16-15	6.31	体融	-0.01
		55	55	403.0	15.49	18.0	16,82	-0.03
	13.00	60	60	400.0	16.45	0.31	16.82	-8.01
		70	70	400.0	10.49	0.3.1	16.82	-0.0.1
		60	10	3-07-0	1650	0.32	16.80	.0.01
		90	00	402.0	16.50	0.32	16.62	-0.01
-		101	400	401.0	1850	0.82	15-82	10.0-
		110	110	401.0	16.50	0.32	16.62	-0.05
	14:00	120	120	308.0	16.50	0.32	16.82	-0.01

Continuous Test Record

SMALWARE CONNER WO	# Flield Aller, WASA Fastanded	VW/ No TW/ K25	
SMDC WIBM LARKet	15.16 m		

Discharge Ha	\$9 (G)	-400	m <sup>3</sup> hout					
Coste	Tirre.	Elizated	Time lot	Purping	Wester hevel	Drandover	THY	#22]
		<b>T</b> (Tie	ANC: CAR	T din	= ((*))		Water Invel	Draindown
		(mm)	inma	(m <sup>2</sup> bod)	1	1.00	3.001	23193
		120	120	398 Ú	16.50	.0.52	18-12	-0.01
		140	140	-420.0	16.51	0.32	15.82	-0.01
		160	107	208 0	16.51	0.32	18.82	-901
	15(10)	180	185	397.0	16.51	0.32	16.02	-0.01
			209	-404.0	18.52	0.54	16.87	-801
		220/	220	-402/0	18.52	0.34	18-81	-0.02
	M(00	240	240	-400.0	10.62	0.54	10:01	-70.02

10-04-13

Dow.

Dark

### 15-00-15

Citté

Recovery Test Record

Stel Name Ownlido We	III Field Anka, WMSA Faelabled	Wild No. TW #25	
Static Water Lowett	-11.0		

Date	Tmi	Elipiled	Reployery Inter		Wildow Astronot	Repduit	(TW	#252)
		areas (reim) 1	for such step (mer) t*	ÛF.	6.003	(f)(0)	Vivian lavai e (m)	Energian Crundow (C (m)
(Loge ta)	16100	240	0	_	18.52	0.34	16.61	-0.02
		241	t	241	16.29	0.11	16.61	-0.02
		242	2	121	16.25	0.00	16:61	-0.02
		943	- 2	81	16.25	9.07	16:01	10.02
		243	4	61	10.25	8.07	16.81	-0.02
		245	-5	-49	15,24	8.08	16.81	-0.02
		246	. 6.	-41	18.24	0.05	10.01	-0.00
		247	7	.35	16,24	0.06-	16.81	-0.02
-		248	8	.41	16.24	0.05	10.81	-0.02
		249	-9	28	16.28	0.05	16-81	0.02
		250	92	25	16.28	0.05	46.81	.0 02
		252	12	- 21	16:23	0.05	16.81	.0.02
		253	м	18	16.22	0.04	15.81	-0.02
		256	35	16	15.22	9.04	16.01	.0.02
		258	- 55	14	16.22	0.04	16.01	-0.02
		260	20	13	16.22	8.04	16.B1	-9.02
		265	25	11	10.21	0.03	10.61	-0.02
		270	30		16.21	0.03	10.01	-0.07
		178	35	ð	16.20	0.02	R.8t	-0.00
		280	-40	1	16.20	0.02	16.61	-0.02
		265	18	6	16.50	0.02	16.01	-8.02
		290	50	\$	16.20	9.02	16.01	10.02
		295	-95	5	16.10	0.01	16.81	-0.02
2	17.00	300	60	5	15.19	0.01	16.61	-0.02

### Well Interference Test Record

SpytMameri	Charlab W	NETING AN	IL WASA FI	the chains	1.1	Well biz	TW K25			
Stats; Water	Level 70	#23	1612	πī	-	Sate Wile	er Lynei TW	#22:	10.00	16
Datain 7		_		_			_			_
Date	7000	Elipted	Terrs of		TW #33	_	-	19/821		
		terni (min)	Auch strep	Pumping take (m <sup>1</sup> moir)	Fumping water tanan 1 (m)	Delividoesin Zis (m)	Punping Ista (m <sup>3</sup> mour)	Pumping haloe sivel 6.(m)	Draudown	Pumpini MBa (m <sup>1</sup> Roper
11-Dat-13	-6.00	0	0	0.0	16.12	0.03	- 6,0	16.80	0.00	0.0
1.000		1	1	0.0	16.12	0.00	0.6	56.95	-0:00-	370.0
		1.2	. 2	0.0	16.12	0.00	20	16.90	0.00	403.0
1.1.1	-	3	3	0.0	16.12	0.00	0.0	16.00	0.00	436.0
		4	4	0.0	16.12	0.00	0.0	t 6.50	0.00	403.0
		2	5	0.0	16.12	0.00	00	15.00	0.00	403.0
		1	. 6	0.0	16.12	0.00	0.0	7690	0.00	405.0
		1	1	0.0	16.12	0.00	0.0	16.60	0.00	4050
			- 4	0.0	16.12	0.00	00	15.80	0.05	403 2
		. 9		0.0	10.12	0.00	0.0	16.90	0.00	360
		10	10	0.0	18-12	0.00	00	16.90	Ú.00	417.0
		12.	12	0.0	10.12	0.00	0.0	16.80	0.90	418.D
		14	14	0.0	10.12	0.00	10	16.90	0.00	418.0
		10	10	0.0	10.12	0.00	100	10.00	0.00	418.0
		18.	711.	0.0	16.12	0.00	0.0	T-6.B0	0.00	397.0
		22	22	0.0	16.12	0.00	9.0	1680	0.00	397.0
		-25	25	0.0	16.12	0.00	0.0	76.80	0.00	4150
		30	80	0.0	10.12	0.00	0.0	76.80	0.00	417.0
_		- 25	- 35	0.0	18.12	0.00	0.0	15.80	0.00	A16 0
		- 40	. 40	0.0	16.12	0.00	00	16.60	0.00	416.0
		45	45	0.0	16.12	0.00	90	16.90	0.00	4100
		50	50	0.0	16.12	0.00	0.0	16.80	0.00	419.C
	-	55	55	0.0	16.12	0.00	0.0	1680	0.00	402.0
	7.00	40	10	0.0	16.15	0.06	00	10.00	0.00	2000

1400-13

Ditte:

Well Interference Test Record

SNI NAHWA	Chamab W	WEWSAW	a, WASA Fé	twickline		VW8 No:	TW #23			
名明之前	r Line III TV	1123	係位	TP.		Silling Walks	e Lavai Tov	#72	-16.90	- W
Répriety	_					-	_			
Ose	Tares."	Elapited	Titte 68		TWN #25	-		TVV.822		TW/801
		Tryna	each step	Pumping tabé	Pumping water rava	Drawtowni zie unit	Pumping 1489	Pumping Weber Invul	Druedown	Parriping rate
11.01.0	2.08	- 60	0		58.12	3.00	a.d.	10.20	0.00	0.0
		6.1	1	40	26.12	0.00	ad.	9.30	0.50	4.0
		40			1.6.11	0.00	0.0	10.55	0.00	.0.0

Well Interference	Test	Record
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5(b) Mame Chanab Well Field Ar	INI, WASA FIR	the cover	Winit No. TW #23		
Static Willer Lever TW WZ	1612	m -	Static Virgini Lavel TVV #22:	16.00	- 25

Pattern 3										
Date	Time	Elipted.	Term of		TW #25			TW-822	-	TIV/21
		tea (m)	each strip	Pumping take (m <sup>1</sup> /hour)	Funcing water tank s (m)	Drawdown 2h (m)	Punping 1861	Fumping Aubie save S (M)	Drawdown	Pumping tabi sm <sup>1</sup> houn
11-Dict-13	-8.60	120	0	0.0	16.12	0.03	0.0	16.80	0.00	0.0
		121	- F	2.0	16.12	0.00	426-0	16.96	0.16	0.0
		122	1.1	0.0	16.12	0.00	420.0	16.92	8.19	30
	1	323	3	0.0	16.12	8,06	410.0	17:00	0.20	. 00 :
		134	4	0.0	16.12	0.00	415.0	17.02	0.22	0.0
		325		0.0	16.12	9.09	-412-0	17.03	0.23	0.0
		128	.6	0.0	16.12	0.00	-410-0	17.03	0.23	0.0
		127	7	0.0	16:12	0.00	407.0	t7.03	0.23	0.0
		129		0.0	16.12	0.00	#07.0	17.83	0.23	- 0.0
		129	- 9	0.0	16.12	0.00	-410-0	47.03	0.23	90
-		120	10	0.0	18-12	0.00	409.0	1783	0.23	0.0
		532	12	0.0	16.12	0.00	-410-0	17.04	0.24	0.0
_		134	14	0.0	16-12	0.00	407.0	17.04	0.24	0.0
		130	16	0.0	10.12	0.00	-409.0	1100	0.24	0.0
		138	78.	0.0	16.11	-0.01	-\$15-0	17.54	0.24	0.0
		140	20	0.0	10.11	-0.01	416-0	17.04	0.24	0.0
		345	25	0.0	16.11	-0.01	414.0	17.05	0.25	00
_		750	30	0.0	TS.T.L.	-0.01	-415-0	17.05	0.25	00
		155	- 85	0.0	16.11	-9.61	415.0	17.05	0.25	0.0
		360	-83	0.0	16.11	-0.01	412.0	17.05	0.25	0.0
		- 565	-45	0,0	杨拉	-5.01	413.0	1108	0.56	ô0
		170	50	0.0	16.12	-8,01	410-0	17.00	0.26	0.0
		175	- 55	0.0	16.15	-0.01	.417.0	17.08	0.26	6.0
	-9.00	10.	60	-0.0	16.12	-0.01	-412-0	17.00	0.28	0.0

		imeli	19990	rate. (m <sup>1</sup> thour)	water nive fe (m)	dim.	rass (m <sup>2</sup> thour)	Weber Invol 5 199	28(0)	rate (mincu
11-68-13	7.00	60	0	1901	18.12	0.00	0.0	10,30	0.00	0.0
		61	1.1	40	7.6 12	0.00	8.0	9.30	0.50	.0.0
		- 62	- 2	(0.0	16.12	0.00	0.0	30.80	0.00	0.0
		63	3	0.0	18.12	0.00	0.0	.99.00	0.00	0.0
		-64	4	00	26.12	0.00	0.0	-98, 90	0.00	0.0
-		-45	5	0.0	M.12	0.00	0.0	10.80	0.00	0.0
	-	- 66	6	0.0	36.12	0.00	0.0	06.30	0.00	0.0
		67	7	0.0	38.12	0.00	0.0	M-30	0.00	0.0
		58	8.		18.12	0.00	9.0	95.00	0.00	10.0
		109		0.0	15.12	0.00	0.0	06.30	0.00	0.0
		70	- 10	0.0	26.12	0.00	00	15.20	0.00	0.0
		72	-12	00	36.12	0.00	9.0	95-30	0.00	0.0
		74	- 54	0.0	16.13	(0.0)	0.0	50.00	0.00	0.0
		78	1.18	0.0	16.12	0.09	0.0	98.80	0.00	0.0
		78	大部	00	18.12	0.00	0.0	15.80	0.00	0.0
		80	20	0.0	16.12	0.00	0.0	16.80	0.00	0.0
		-85	35	0.0	26.12	0.00	50	6.80	0.00	.0.0
		90	- 30	0.0	16.12	0.00	5.0	05.80	0.00	.0.0
		10	35	66	38.12	0.00	0.0	95.20	0.00	0.0
		100	-40	8.0	18 12	0.00	9.0	10.00	0.00	4.0
		105-	-45	6.0	18.12	0.00	0.0	16 80	6.00	4.0
_		110	50	0.0	58.12	0.00	0.0	68-80	0.00	0.0
		113	55	0.0	68.15	0.00	6.5	18.30	0.00	60
	8.00	1200	- 60	0.0	58.15	0.00	0.0	95.80	0.00	0.0

Derw.

Dark

DAME 16-D/2-13

Well Interference Test Record

Date Miles	channel 754	1929	MI 12	m	-	TOWN MAN	AT BUSY THE	#72	10.30	
All Article	Land In	era.	100.14		-	DOM: NOR	a Think 144	814	10.40	
Putteri 4								_		
Ose	Time."	Eligited	Time.68		下的电话	-		TVV 823		TWACH
		\$mit	with step	Pumping Mbil	Pumping water viva	Drawtewn	Pumping New	Partologi weber invel	Drawdow	Pumping rule
	_	(min)	(min)	(minori	4.000	add (m)	(militian)	+204	(m) dbs	(m <sup>3</sup> /tour
11-68-13	9-08	183	0	- 20-	18 (2	-0.01	412.0	17,06	0.26	0.0
		.00	1.1	0.0	M 12	-0.03	413.0	17.06	0.26	0.5
_		182	3	(0.0	18.12	10.01	416.0	17.00	0.26	0.0
		189	3	0.0	(8.13	10.01	-117.0	17.02	0.37	0.0
		184	4	309-3	18.84	0.22	3740	17.06	0.25	0.0
		185	5	433.0	15.40	0.28	385.9	17.05	0.25	0.0
		188-	- <u>k</u> .	9.55.0	78.41	ú-29	387.0	-17.95	0.25	-0.0
		187	1	433.0	18.41	0.29	387.0	17.05	0.25	0.0
		185	8.	433 0	18.42	0.80	387.9	17.95	0.25	16 B
_		113		6.75 0	16.43	18.0	385.0	17.05	0.25	0.0
		190	- 107	433 0	38.43	0.31	381.0	17.05	0.25	70.0
		192	12	433.0	35.44	8.52	382.0	17.05	0.25	6.0
		194	- 54	1033-17	76.44	0.32	377.0	17.05	0.25	0.0
		195	- 16	433.0	75.44	8.82	3910	17.05	9.25	10.0
		108	18	433.0	16.44	0.32	382.0	17.05	0.25	0.0
		200	25	433.0	16.45	0.82	383.0	17.05	9.25	0.0
		205	35	408.2	28.45	0.63	380.0	67.0E	0.25	.0.0
		210	- 242	445.4	26.45	0.54	375.0	17.01	0.25	0.0
		215-	35	420.8	18.48	0.34	.380 IN	17.05	0.25	(8.0
		220	-40	420.8	18.46	0.84	382.0	17.05	0.25	0.0
		.225-	-45	457.7	18-46	0.54	371.0	17,05	0.25	0.0
		.250	50	408.2	58.47	0.35	381,5	17,05	0.25	0.0
		235	- 55	420.6	18,47	0.35	.381.0	17.05	0.26	0.0
	10:00	240	. 60	433.0	18.47	0.85	3810	17.00	029	0.0

### Weil Interference Test Record

one organie o	Constallo We	and and App	4,07658,91	Sec.40	_	111111-042	THORES.	_		_
State: Water	Level TV	#23	16.12	πi		Sax We	er Lynei TW	#22:	16.80	- 15
Patrent 5.	-	_					-			_
Dutte	Time	Elipted	Term of		TW #25	_		TW 825	-	19/821
		Arrai	é éch strap	Pumping. tabl	Plumping water famili	Deswapesin	Pumping Ista	Pumping Autor sive	Draudoen	Pumping
		(2006)	()min()	(40,000)	5(0)		(m/mour)	= 0.01	(m)	(m/k/perc
11-042-13	10,00	240	0	-23.0	16.47	0.35	381.0	17.85	0.25	287
-		261	1	43.0	10.47	0.35	(87.6	12.00	0.20	393.0
		242		4930	16.47	0.35	381.0	1100	0.26	39.0
-		343	- 3	494.8	16.47	0.35	384.0	17.06	0.56	3921
_		344	4	433.0	16:47	0.35	381.0	17.96	0.26	395
		245	5	3111	16.47	0.25	379-0	17.05	0.26	297
		346	6	433.0	16-48	0.86	375.0	17.06	0.26	301
		347	1	483.0	16.47	0.34	329.0	17.04	0.24	204
		248		43.3 0	16.40	0.34	-539 B	17.84	8.24	294
_		369	8	371.1	10 80	0.34	345.0	1716	0.36	390
		250	10	453.0	16.40	0.34	350-0	17:54	0.34	363
		252	12	\$0,2.1	10.40	0.34	548-0	17.04	0.24	291
		254	14	402.1	10.46	0.54	346-17	1704	0.24	3921
		26	10.	402.1	10.40	0.34	258-0	17.04	0.24	394
		258	78.	4330	16.46	0.54	359.0	17.04	0.24	39.3
		250	29	402.1	16.47	0.34	367.0	17.04	0.24	295
		28	25	400.2	16.47	0.35	671.0	17.04	0.24	383
		270	30	408.2	16-47	0.35	369.0	17.64	0.24	304
		275	35	420.6	18.47	0.35	374.0	17.84	8.24	394
		260	- 40	408.2	16.47	0.85	\$90 ft	17.05	0.25	307
		28	45	400.2	10.40	0.36	.302.0	1240	0.25-	395
		290	50	420.6	16.48	0.36	3(6-0	17.05	0.25	201
	-	295	- 85	408.2	16.48	0.36	370.0	17.04	0.04	3921
	11.00	300	10	100.6	1644	0.36	358.0	17.04	0.34	101

APPENDIX-B

DESIGN & INSTALLATION OF PIEZOMETER

DESIGN & INSTALLATION OF PIEZOMETER RSB installed each one (1) Piezometer at TW#2, TW#3, TW#8, TW#9, TW#13, TW#14, TW#22 and TW#23 as por required specifications in order to measure water level during pamping test.




















#### (4) Meteorological Survey Result

#### 1) Air Temperature

### a) Daily Maximum Temperature (deg C)



#### b) Daily Minimum Temperature (deg C)



# 2) Humidity (Daily Average Humidity :%)

Yr	Day /mth	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
	Jan	70	70	71	75	73	75	72	78	72	68	72	70	75	70	73	75	70	68	65	61	57	55	50	56	55	52	60	70	72	71	67	67.4
	Feb	68	70	66	62	64	65	68	70	68	72	70	72	75	71	80	80	75	70	70	65	60	60	55	54	52	51	75	70	001	40	41	67.1
	Apr	57	32	31	40	48	40	36	42	4/	38	<u>/0</u> 41	34	46	32	35	34	32	36	58 49	43	4/	42	37	33	37	20	20	20	38	42	41	47.0
	May	15	17	21	33	27	25	25	29	31	28	25	23	26	26	21	31	30	31	30	28	28	28	23	18	15	16	21	26	32	26	19	25.0
200	Jun	20	19	22	26	27	27	26	25	19	23	29	31	38	37	28	40	38	43	54	45	47	41	46	45	43	45	53	57	58	57		37.0
20	Jul	56	59	60	54	53	47	53	60	58	56	47	49	49	57	56	50	65	52	49	48	47	65	75	62	64	48	53	54	53	53	49	54.9
	Sep	40	45	53 61	62	46	- <u>58</u> - 58	62	55	52	- <u>58</u> - 48	61	51	52	49	52	45	44	50	47	48	49 53	43 53	59 56	52 56	45	44	40	4/	38	38	54	51.3
	Oct	41	33	30	31	36	26	29	29	20	21	26	21	34	34	32	36	37	42	32	34	35	40	35	36	32	34	33	32	34	37	39	32.6
	Nov	28	26	27	23	33	38	32	41	44	46	47	53	55	62	57	45	52	51	55	58	50	51	57	54	54	52	63	59	49	49		47.0
L	Dec	57	51	51	33	33	49	44	46	51	50	50	59	61	48	39	50	47	56	54	70	63	60	62	70	66	56	67	68	85	64	62	55.5
	Day	( <sub>1</sub>	2	3	4	5	6	7	8	q	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
Yr	r/mth			26	20	20	44		57	62	60	57	20	20	50	50	50	70	00	54	20	20	20	20	27	10	46	20	20	27	27	25	41 E
	Feb	23	38	51	50	56	38	43	36	54	38	25	26	16	30	36	31	30	52	43	49	32	30	36	43	35	26	28	37	39	3/	- 30	37.3
	Mar	44	44	48	49	38	40	40	40	45	40	42	40	34	29	35	36	38	33	34	37	44	39	37	30	24	31	41	39	34	33	35	37.8
	Apr	34	37	43	61	53	57	56	41	44	40	40	42	40	35	41	39	34	29	26	21	24	23	23	23	20	19	15	17	14	16		33.6
	Jun	30	33	37	33	30	32	43	38	44	45	<u>2/</u> 60	48	47	40	34 51	50	23	54	23 59	36 50	40	<u>50</u> 45	<u>50</u> 60	44 52	42 54	49	43	45 66	66	25 57	28	48.0
200	Jul	46	51	43	44	51	47	63	57	63	56	50	56	63	78	71	64	48	47	47	47	58	65	54	48	47	44	42	46	53	47	46	53.0
	Aug	62	67	59	61	69	76	66	70	74	71	74	80	84	74	69	75	72	65	56	64	55	58	57	67	52	46	49	55	61	57	70	65.0
	Sep	70	59	49	53	54	64	62	56	56	55	45	50	49	50	49	58	50	66	64	59	68	62		66	65	68	63	61	74	64		59.3
	Nov	59	55	62	67	52	48	49	49 54	58	58	59	59	60	56	66	72	71	66	64	62	54	59	59	55	59	62	62	63	63	45	47	58.9
	Dec	57	63	62	64	61	80	51	71	74	68	64	55	54	55	66	56	88	69	60	88	72	65	65	67	68	69	85	84	85	86	83	68.9
	> Day	/		1												-														<u> </u>			
Yr	/mth		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
	Jan	81	63	60	68	69	65	60	66	68	70	66	64	61	60	54	69	93	74	83	64	64	76	65	65	55	75	81	72	70	66	62	68.0
	Mar	47	48	49	60	56	48	36	41	40	49	45	44	48	44	43	50	49	56	50	63	61	48	61	54 57	76	63	55 60	66	81	78	55	53.5
	Apr	57	54	57	49	49	55	66	61	70	71	51	43	42	39	42	46	34	31	32	27	28	34	25	25	29	27	26	26	25	29		41.7
	May	38	32	34	43	53	51	45	37	40	40	32	20	25	27	31	31	31	20	27	27	28	20	35	28	26	26	26	23	23	30	25	31.4
00	Jun	32	37	39	29	18	36	33	23	21	30	27	27	26	28	52	49	50	46	38	43	29	23	25	31	32	39	33	32	36	44	50	33.6
1	Aug	58	56	58	59	49 59	49 59	43 57	61	57	51	56	54	57	56	50	68	89	69	79	78	75	82	70	86	78	72	82	69	66	59	67	65.8
	Sep	78	67	76	69	77	78	84	60	67	66	68	66	63	46	55	41	56	56	66	57	54	55	60	58	50	61	44	57	47	48		61.0
	Oct	47	58	62	70	68	68	64	62	37	58	46	58	56	57	54	61	54	61	56	60	59	67	58	58	58	55	58	60	55	54	56	57.9
	Dec	61	67	67	65	67	65	62	57	61	58	67	61	60	61	65	66	66	54	54	70	67	55	61	69	69	65	66	69	65	78	79	64.4
	> Do		- 1		- 1					-					1	1	-	1				-	-										
Yr	Day /mth	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
Yr	Day /mth Jan	/ 1 81	2 80	3	4	5 83	6 85	7	8	9 93	10 88	11 85	12 85	13 90	14 81	15 84	16 79	17 73	18 85	19 90	20 88	21 82	22 90	23 89	24 86	25 85	26 81	27 80	28 73	29 73	30 63	31 62	Average 82.3
Yr	Day /mth Jan Feb Mar	/ 1 81 62 72	2 80 68	3 77 67	4 87 69	5 83 65	6 85 60	7 87 72	8 87 85	9 93 66	10 88 67	11 85 65	12 85 54	13 90 64	14 81 62	15 84 67	16 79 59	17 73 55	18 85 49	19 90 54	20 88 47	21 82 48	22 90 60	23 89 58	24 86 65	25 85 68	26 81 66	27 80 64	28 73 69	29 73	30 63	31 62	Average 82.3 62.7
Yr	Day /mth Jan Feb Mar Apr	/ 1 81 62 72 44	2 80 68 69 44	3 77 67 59 48	4 87 69 86 46	5 83 65 81 46	6 85 60 69 44	7 87 72 82 39	8 87 85 63 38	9 93 66 58 35	10 88 67 35 38	11 85 65 54 35	12 85 54 55 44	13 90 64 56 43	14 81 62 52 32	15 84 67 53 25	16 79 59 47 26	17 73 55 59 29	18 85 49 62 24	19 90 54 59 30	20 88 47 54 27	21 82 48 58 46	22 90 60 51 40	23 89 58 50 46	24 86 65 57 36	25 85 68 61 34	26 81 66 45 25	27 80 64 42 27	28 73 69 50 30	29 73 51 30	30 63 46 53	31 62 48	Average 82.3 62.7 57.5 36.8
Yr	Day /mth Jan Feb Mar Apr May	/ 1 81 62 72 44 36	2 80 68 69 44 33	3 77 67 59 48 26	4 87 69 86 46 28	5 83 65 81 46 28	6 85 60 69 44 57	7 87 72 82 39 50	8 87 85 63 38 42	9 93 66 58 35 39	10 88 67 35 38 38	11 85 65 54 35 42	12 85 54 55 44 28	13 90 64 56 43 24	14 81 62 52 32 28	15 84 67 53 25 24	16 79 59 47 26 24	17 73 55 59 29 22	18 85 49 62 24 28	19 90 54 59 30 38	20 88 47 54 27 30	21 82 48 58 46 26	22 90 60 51 40 27	23 89 58 50 46 29	24 86 65 57 36 22	25 85 68 61 34 20	26 81 66 45 25 23	27 80 64 42 27 25	28 73 69 50 30 34	29 73 51 30 45	30 63 46 53 38	31 62 48 30	Average 82.3 62.7 57.5 36.8 31.7
010	Day mth Jan Feb Mar Apr May Jun	/ 1 81 62 72 44 36 31	2 80 68 69 44 33 25	3 77 67 59 48 26 33	4 87 69 86 46 28 37	5 83 65 81 46 28 54	6 85 60 69 44 57 41	7 87 72 82 39 50 52	8 87 85 63 38 42 51	9 93 66 58 35 39 41	10 88 67 35 38 38 45	11 85 65 54 35 42 39	12 85 54 55 44 28 36	13 90 64 56 43 24 36	14 81 62 52 32 28 35	15 84 67 53 25 24 48	16 79 59 47 26 24 38	17 73 55 59 29 22 34	18 85 49 62 24 28 35	19 90 54 59 30 38 34	20 88 47 54 27 30 32	21 82 48 58 46 26 28	22 90 60 51 40 27 30	23 89 58 50 46 29 45	24 86 65 57 36 22 46	25 85 68 61 34 20 52	26 81 66 45 25 23 44	27 80 64 42 27 25 38	28 73 69 50 30 34 40	29 73 51 30 45 45	30 63 46 53 38 54	31 62 48 30	Average 82.3 62.7 57.5 36.8 31.7 40.0
2010	Day /mth Jan Feb Mar Apr May Jun Jul Aug	( 1 81 62 72 44 36 31 40 63	2 80 68 69 44 33 25 49 68	3 77 67 59 48 26 33 59 74	4 87 69 86 46 28 37 45 67	5 83 65 81 46 28 54 53 67	6 85 60 69 44 57 41 58 84	7 87 72 82 39 50 52 54 79	8 87 85 63 38 42 51 59 84	9 93 66 58 35 39 41 49 70	10 88 67 35 38 38 45 51 71	11 85 65 54 35 42 39 55 79	12 85 54 55 44 28 36 76 84	13 90 64 56 43 24 36 88 88	14 81 62 52 32 28 35 66 79	15 84 67 53 25 24 48 62 80	16 79 59 47 26 24 38 56 90	17 73 55 59 29 22 34 57 87	18 85 49 62 24 28 35 66 72	19 90 54 59 30 38 34 60 71	20 88 47 54 27 30 32 82 76	21 82 48 58 46 26 28 89 77	22 90 60 51 40 27 30 80 77	23 89 58 50 46 29 45 60 64	24 86 65 57 36 22 46 70 75	25 85 68 61 34 20 52 60 79	26 81 66 45 25 23 44 59 84	27 80 64 42 27 25 38 63 76	28 73 69 50 30 34 40 82 69	29 73 51 30 45 45 80 61	30 63 46 53 38 54 75 62	31 62 48 30 69 65	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6
2010	Day mth Jan Feb Mar Apr May Jun Jul Aug Sep	( 1 81 62 72 44 36 31 40 63 67	2 80 68 69 44 33 25 49 68 65	3 77 67 59 48 26 33 59 74 70	4 87 69 86 46 28 37 45 67 73	5 83 65 81 46 28 54 53 67 75	6 85 60 69 44 57 41 58 84 84 66	7 87 72 82 39 50 52 54 79 65	8 87 85 63 38 42 51 59 84 84 80	9 93 66 58 35 39 41 49 70 71	10 88 67 35 38 38 38 45 51 71 71 70	11 85 65 54 35 42 39 55 79 70	12 85 54 55 44 28 36 76 84 72	13 90 64 56 43 24 36 88 80 75	14 81 62 52 32 28 35 66 79 79 76	15 84 67 53 25 24 48 62 80 73	16 79 59 47 26 24 38 56 90 68	17 73 55 59 29 22 34 57 87 65	18 85 49 62 24 28 35 66 72 64	19 90 54 59 30 38 34 60 71 56	20 88 47 54 27 30 32 82 76 61	21 82 48 58 46 26 28 89 77 64	22 90 60 51 40 27 30 80 77 78	23 89 58 50 46 29 45 60 64 72	24 86 65 57 36 22 46 70 75 73	25 85 68 61 34 20 52 60 79 67	26 81 66 45 25 23 44 59 84 65	27 80 64 42 27 25 38 63 76 60	28 73 69 50 30 34 40 82 69 46	29 73 51 30 45 45 80 61 46	30 63 46 53 38 54 75 62 50	31 62 48 30 69 65	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8
2010	Day mth Jan Feb Mar Apr May Jun Jun Jun Jun Sep Oct	( 1 81 62 72 44 36 31 40 63 67 56	2 80 68 69 44 33 25 49 68 65 57	3 77 67 59 48 26 33 59 74 70 55	4 87 69 86 46 28 37 45 67 73 50	5 83 65 81 46 28 54 53 67 75 50	6 85 60 69 44 57 41 58 84 66 61	7 87 72 82 39 50 52 54 79 65 53	8 87 85 63 38 42 51 59 84 80 59	9 93 66 58 35 39 41 49 70 71 62	10 88 67 35 38 38 45 51 71 71 70 62	11 85 65 54 35 42 39 55 79 70 61	12 85 54 55 44 28 36 76 84 72 65	13 90 64 56 43 24 36 88 88 80 75 52	14 81 62 52 32 28 35 66 79 76 54	15 84 67 53 25 24 48 62 80 73 49	16 79 59 47 26 24 38 56 90 68 51	17 73 55 59 29 22 34 57 87 65 48	18 85 49 62 24 28 35 66 72 64 65	19 90 54 59 30 38 34 60 71 56 74	20 88 47 54 27 30 32 82 76 61 69	21 82 48 58 46 26 28 89 77 64 66	22 90 60 51 40 27 30 80 77 78 58	23 89 58 50 46 29 45 60 64 72 72	24 86 65 57 36 22 46 70 75 73 62	25 85 68 61 34 20 52 60 79 67 67	26 81 66 45 25 23 44 59 84 65 60	27 80 64 42 27 25 38 63 76 60 61	28 73 69 50 30 34 40 82 69 46 64	29 73 51 30 45 45 80 61 46 64	30 63 46 53 38 54 75 62 50 64	31 62 48 30 69 65 61	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6
2010 3 1	Day mth Jan Feb Mar Apr May Jun Jun Jun Jun Aug Sep Oct Nov Dec	( 1 81 62 72 44 36 31 40 63 67 56 62 61	2 80 68 69 44 33 25 49 68 65 57 59 61	3 77 67 59 48 26 33 59 74 70 55 55 70	4 87 69 86 46 28 37 45 67 73 50 52 71	5 83 65 81 46 28 54 53 67 75 50 55 73	6 85 60 69 44 57 41 58 84 66 61 61 76	7 87 72 82 39 50 52 54 79 65 53 61 79	8 87 85 63 38 42 51 59 84 80 58 60 79	9 93 66 58 35 39 41 49 70 71 62 59 66	10 88 67 35 38 38 45 51 71 71 70 62 57 65	11 85 65 54 35 42 39 55 79 70 61 65 65	12 85 54 55 44 28 36 76 84 72 65 68 64	13 90 64 56 43 24 36 88 88 80 75 52 65 63	14 81 62 52 32 28 35 66 79 76 54 63 69	15 84 67 53 25 24 48 62 80 73 49 64 75	16 79 59 47 26 24 38 56 90 68 51 66 72	17 73 55 59 29 22 34 57 87 65 48 65 74	18 85 49 62 24 28 35 66 72 64 65 65 79	19 90 54 59 30 38 34 60 71 56 74 68 71	20 88 47 54 27 30 32 82 76 61 69 64 62	21 82 48 58 46 26 28 89 77 64 66 69 72	22 90 60 51 40 27 30 80 77 78 58 67 73	23 89 58 50 46 29 45 60 64 72 74 72 79	24 86 65 57 36 22 46 70 75 73 62 72 78	25 85 68 61 34 20 52 60 79 67 61 61 61	26 81 66 45 25 23 44 59 84 65 60 55 67	27 80 64 42 27 25 38 63 76 60 61 54 68	28 73 69 50 30 34 40 82 69 46 64 64 62 74	29 73 51 30 45 45 80 61 46 64 61 71	30 63 46 53 38 54 75 62 50 64 61 65	31 62 48 30 69 65 61 82	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6 62.3 70.5
2010 3 1	Day /mth Jan Feb May Jun Jul Aug Sep Oct Nov Dec	( 1 81 62 72 44 36 31 40 63 67 56 62 61	2 80 68 69 44 33 25 49 68 65 57 59 61	3 77 67 59 48 26 33 59 74 70 55 55 55 70	4 87 69 86 46 28 37 45 67 73 50 52 71	5 83 65 81 46 28 54 53 67 75 50 55 73	6 85 60 69 44 57 41 58 84 66 61 61 76	7 87 72 82 39 50 52 54 79 65 53 61 79	8 87 85 63 38 42 51 59 84 80 58 60 79	9 93 66 58 35 39 41 49 70 71 62 59 66	10 88 67 35 38 38 45 51 71 70 62 57 65	11 85 65 54 35 42 39 55 79 70 61 65 65	12 85 54 55 44 28 36 76 84 72 65 68 64	13 90 64 56 43 24 36 88 80 75 52 65 63	14 81 62 52 32 28 35 66 79 76 54 63 69	15 84 67 53 25 24 48 62 80 73 49 64 75	16 79 59 47 26 24 38 56 90 68 51 66 72	17 73 55 59 29 22 34 57 87 65 48 65 48 65 74	18 85 49 62 24 28 35 66 72 64 65 65 79	19 90 54 59 30 38 34 60 71 56 74 68 71	20 88 47 54 27 30 32 82 76 61 69 64 62	21 82 48 58 46 26 28 89 77 64 66 69 72	22 90 60 51 40 27 30 80 77 78 58 67 73	23 89 58 50 46 29 45 60 64 72 74 72 79	24 86 65 57 36 22 46 70 75 73 62 72 78	25 85 68 61 34 20 52 60 79 67 61 61 69	26 81 66 45 25 23 44 59 84 65 60 55 67	27 80 64 42 27 25 38 63 76 60 61 54 68	28 73 69 50 30 34 40 82 69 46 64 62 74	29 73 51 30 45 45 80 61 46 64 61 71	30 63 46 53 38 54 75 62 50 64 61 65	31 62 48 30 69 65 61 82	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6 62.3 70.5
· · · · · · · · · · · · · · · · · · ·	Day mth Jan Feb Mar Apr Jun Jul Aug Sep Oct Nov Dec	1           81           62           72           44           36           31           40           63           67           56           62           61           (11)	2 80 68 69 44 33 25 49 68 65 57 59 61	3 77 67 59 48 26 33 59 74 70 55 55 70 3	4 87 69 86 46 28 37 45 67 73 50 52 71 4	5 83 65 81 46 28 54 53 67 75 50 55 73	6 85 60 69 44 57 41 58 84 66 61 61 76	7 87 72 82 39 50 52 54 79 65 53 61 79 7	8 87 85 63 38 42 51 59 84 80 58 60 79 8	9 93 66 58 35 39 41 49 70 71 62 59 66	10 88 67 35 38 45 51 71 71 70 62 57 65	11 85 54 35 42 39 55 79 70 61 65 65 11	12 85 54 55 44 28 36 76 84 72 65 68 64 12	13 90 64 56 43 24 36 88 88 80 75 52 65 63	14 81 62 52 28 35 66 79 76 54 63 69 14	15 84 67 53 25 24 48 62 80 73 49 64 75 15	16 79 59 47 26 24 38 56 90 68 51 66 72 16	17 73 55 59 29 22 34 57 87 65 48 65 74	18 85 49 62 24 28 35 66 72 64 65 65 79 18	19 90 54 59 30 38 34 60 71 56 74 68 71 19	20 88 47 54 27 30 32 82 76 61 69 64 62 20	21 82 48 58 46 26 28 89 77 64 66 69 72 21	22 90 60 51 40 27 30 80 77 78 58 67 73 22	23 89 58 50 46 29 45 60 64 72 74 72 79 23	24 86 65 57 36 22 46 70 75 73 62 72 78 24	25 85 68 61 34 20 52 60 79 67 61 61 61 69 25	26 81 66 45 25 23 44 59 84 65 60 55 67 26	27 80 64 42 25 38 63 76 60 61 54 68 27	28 73 69 50 30 34 40 82 69 46 64 62 74 28	29 73 51 30 45 45 80 61 46 64 61 71 29	30 63 46 53 38 54 75 62 50 64 61 65 30	31 62 48 30 69 65 61 82 31	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6 62.3 70.5 Average
IA         2010         IA         IA	Day mth Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Day	1           81           62           72           44           36           31           40           63           67           56           62           61           /           1           92	2 80 68 69 44 33 25 49 68 65 57 59 61	3 777 67 59 48 26 33 59 74 70 55 55 70 3 3 93	4 87 69 86 46 28 37 45 67 73 50 52 71 4 93	5 83 65 81 46 28 54 53 67 75 50 55 73 73 5 93	6 85 60 69 44 57 41 58 84 66 61 61 76 76	7 87 72 82 39 50 52 54 79 65 53 61 79 7 7 90	8 87 85 63 38 42 51 59 84 80 58 60 79 84 88 60	9 93 66 58 35 39 41 49 70 71 62 59 66 9 86	10 88 67 35 38 45 51 71 70 62 57 65 10 87	11 85 65 54 35 42 39 55 79 70 61 65 65 11 86	12 85 54 55 44 28 36 76 84 72 65 68 64 12 76	13 90 64 56 43 24 36 88 88 80 75 52 65 63 13 13 70	14 81 62 52 32 28 35 66 79 76 54 63 69 76 54 63 69 14 81	15           84           67           53           25           24           48           62           80           73           49           64           75           15           97	16 79 59 47 26 24 38 56 90 68 51 66 72 16 61	17 73 55 59 29 22 34 57 87 65 48 65 74 17	18 85 49 62 24 28 35 66 72 64 65 65 79 18 66	19 90 54 59 30 38 34 60 71 56 74 68 71 19 19 57	20 88 47 54 27 30 32 82 76 61 69 64 62 20 61	21 82 48 58 46 26 28 89 77 64 66 69 72 21 21 57	22 90 60 51 40 27 30 80 77 78 58 67 73 22 22 62	23 89 58 50 46 29 45 60 64 72 74 72 79 23 64	24 86 65 57 36 22 46 70 75 73 62 72 78 24 62	25 85 68 61 34 20 52 60 79 67 61 61 61 69 25 66	26 81 66 45 25 23 44 59 84 65 60 55 67 26 62	27 80 64 27 25 38 63 76 60 61 54 68 27 58	28 73 69 50 30 34 40 82 69 46 64 62 74 28 51	29 73 51 30 45 45 80 61 46 61 61 71 29 67	30 63 46 53 38 54 75 62 50 64 61 65 30 59	31 62 48 30 69 65 61 82 31 64	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6 62.3 70.5 Average 73.4
IX         2010         IX         I	Day mth Jan Feb Mar Apr Jul Jul Jul Jul Jul Jul Dec Dec Day mth Jan Feb Mar	( 1 81 62 72 44 36 31 40 63 67 56 62 61 ( 1 92 71 92 71	2 80 68 69 44 33 25 49 68 65 57 59 61 2 80 67 78	3 77 67 59 48 26 33 59 74 70 55 55 70 3 93 63 63	4 87 69 86 46 28 37 45 67 73 50 52 71 93 4 93 72	5 83 65 81 46 28 54 53 67 75 50 55 73 55 73 55 93 76	6 85 60 69 44 57 41 58 84 66 61 61 76 94 6 94	7 87 72 82 39 50 52 54 79 65 53 61 79 7 7 90 86	8 87 85 63 38 42 51 59 84 80 58 60 79 8 8 80 79 8 8 86 79	9 93 66 58 35 39 41 49 70 71 62 59 66 9 86 72 2 55	10 88 67 35 38 38 45 51 71 70 62 57 65 10 87 60 87 60	11 85 65 54 35 42 39 55 79 70 61 65 65 11 86 66 55	12 85 54 28 36 76 84 72 65 68 64 12 76 59	13 90 64 56 43 24 36 88 80 75 52 65 63 13 70 81	14 81 62 52 32 28 35 66 79 76 54 63 69 76 54 63 69 76 54 81 87 55	15 84 67 53 25 24 48 62 80 73 49 64 75 15 97 77 77 77 75	16 79 59 47 26 24 38 56 90 68 51 66 72 16 61 77 77	17 73 55 59 29 22 34 57 87 65 48 65 74 17 62 73	18 85 49 62 24 28 35 66 67 2 64 65 65 79 18 66 67 1	19 90 54 59 30 38 34 60 71 56 74 68 71 19 9 57 78 85	20 88 47 54 27 30 32 82 76 61 69 64 62 20 61 78 56	21 82 48 58 46 26 28 89 77 64 66 69 72 21 57 80	22 90 60 51 40 27 30 80 77 78 58 67 73 73 22 22 62 72 50	23 89 58 50 46 29 45 60 64 72 74 72 79 23 64 68 850	24 86 65 57 36 22 46 70 75 73 62 72 78 24 62 67 62 67	25 85 68 61 34 20 52 60 79 67 61 61 61 69 25 66 71	26 81 66 45 25 23 44 59 84 65 60 55 67 26 62 92 51	27 80 64 42 27 25 38 63 76 60 61 54 68 27 58 27 58	28 73 69 50 30 30 82 69 46 64 62 74 28 51 68	29 73 51 30 45 45 80 61 46 64 61 71 29 67	30 63 46 53 38 54 75 62 50 64 61 65 30 59	31 62 48 30 69 65 61 82 31 64	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6 66.8 59.6 62.3 70.5 Average 73.4 73.0 50.9 50.9
マロション マン マン マン マン マン マン マン マン マン マン マン マン マン	Day mtl Jan Feb Mar Apr Jul Jul Jul Jul Jul Sep Oct Nov Dec Day mth Jan Feb	1           81           62           72           44           36           31           40           63           67           56           62           61           92           71           88           46	2 80 68 69 44 33 25 49 65 57 59 61 2 80 67 77 8 80 77 78 50	3 77 67 59 48 26 33 59 48 26 33 59 74 70 75 55 55 70 70 3 93 63 92 47	4 87 69 86 46 28 37 45 67 73 50 52 71 4 93 72 80 37	5 83 65 81 46 28 54 53 67 75 50 55 73 55 73 55 93 76 72 35	6 85 60 69 44 57 41 58 84 66 61 61 61 76 94 74 65 41	7 87 72 82 39 50 52 54 79 65 53 61 79 7 7 90 86 62 42	8 87 85 63 38 42 51 59 84 80 58 60 79 88 80 79 88 86 72 64 39	9 93 66 58 35 39 41 49 70 71 62 59 66 9 86 72 55 55 48	10 88 67 35 38 38 45 51 71 70 62 57 65 10 87 60 54 61	11 85 65 54 35 42 39 55 61 65 65 11 86 66 65 55 71	12 855 54 28 36 76 84 76 84 72 65 65 68 64 12 76 53 75	13 90 64 56 43 24 36 88 80 75 52 65 65 65 65 65 65 83 70 81 53 55 4	14 81 62 52 32 28 35 66 54 63 69 79 76 54 63 69 14 14 81 87 55 54	15 84 67 53 25 24 48 62 80 73 49 64 75 15 97 77 53 47	16 79 59 47 26 24 38 56 90 68 51 66 72 16 61 77 77 60 58	17 73 55 59 29 22 34 57 87 65 48 65 74 17 65 74	18 85 49 62 24 28 35 66 72 64 65 65 79 18 66 71 61 60	19           90           54           59           30           38           34           60           71           56           71           19           57           78           65           56	20 88 47 54 27 30 32 82 76 61 69 64 62 20 61 78 56 49 49	21 82 48 58 26 28 89 77 64 66 66 66 69 72 21 57 80 64 64 44	22 90 60 51 40 27 30 80 77 78 58 67 73 22 22 62 72 50 50	23 89 58 50 46 29 45 60 64 72 74 72 79 23 64 68 50 41	24 86 65 57 36 22 46 70 75 73 62 72 78 24 62 67 62 78 24 62 67 63 9	25 85 68 61 34 20 52 60 79 67 61 61 61 61 69 25 66 71 51 36	26 81 66 45 25 23 44 59 84 65 60 55 67 26 67 26 62 92 51 30	27 80 64 42 27 25 38 63 76 60 60 61 54 68 27 58 71 55 6 43	28 73 69 50 30 30 34 40 82 69 46 64 64 62 74 28 51 68 51 68 23 63	29 73 51 30 45 45 80 61 46 64 61 71 29 67 65 35	30 63 46 53 38 54 50 62 50 64 61 65 30 59 59 56 39	31 62 48 30 69 65 61 82 31 64 56	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6 62.3 70.5 Average 73.4 73.0 59.8 47.0
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011 I 3010 I V	Day mth Jan Feb Mar Apr Jun Jun Jun Jun Jun Jun Sep Oct Nov Dec Dec Day Rep Mar May Jun Feb Apr May Jun Jun Jun Jun Jun Jun Jun Jun Jun Jun	( 1 81 62 72 44 43 6 31 40 63 31 40 63 31 40 63 31 40 63 31 40 63 7 56 67 67 7 56 62 61 ( 1 92 71 88 8 83 837 84 837 84 837 84 837 84 84 84 84 84 84 84 84 84 84 84 84 84	2 80 68 69 25 49 68 65 57 59 61 2 80 61 2 80 67 78 50 34 68	3 77 67 59 48 26 33 59 74 70 55 55 70 93 3 93 63 92 47 37 51	4 87 69 86 46 28 37 45 67 73 50 52 71 4 93 72 80 37 37 40 93	5 83 65 81 46 28 54 53 67 75 50 55 73 55 73 55 93 76 72 35 41 43	6           85           60           69           44           57           41           58           84           66           61           61           76           94           74           65           41           49           44	7 87,72 82 39 50 52 54 65 53 61 79 7 90 86 62 42 51 39	8 87 85 63 38 42 51 59 84 80 58 60 79 88 86 72 88 88 60 79 88 84 39 43 45 52 54 53 54 54 54 54 54 54 54 55 55 55 55 55 55	9 93 66 58 35 39 41 49 70 71 62 59 66 86 72 55 88 88 72 55 55 48 35 55 22	10 88 67 35 38 45 51 71 70 62 57 65 10 87 65 10 87 65 45 10 87 51 10 87 51 10 87 51 51 51 51 51 51 51 51 51 51	111 85 65 54 39 55 79 70 61 65 65 65 111 86 66 65 71 37 52 25 71 37 55 71 37 55 75 75 75 70 70 70 70 70 70 70 70 70 70	12 855 54 28 36 76 84 72 65 68 64 12 76 53 75 36 53 75 36	13 90 64 56 43 24 36 88 88 80 75 52 65 63 13 70 81 35 54 40 54	14 81 62 52 28 35 66 79 76 54 63 69 14 81 87 55 41 39 45 52	15           84           67           53           25           25           24           48           62           80           73           49           64           75           97           77           53           97           73           36           47           36	16 79 59 47 26 24 38 56 68 51 66 72 16 61 77 60 58 36 59 22	17 73 55 59 29 22 34 57 87 65 48 65 74 17 62 73 63 72 34 59	18 85 49 62 24 28 35 66 65 72 64 65 65 79 18 66 61 60 35 67 72 64 65 65 79 72 72 72 64 72 72 72 72 72 72 72 72 72 72	19           90           54           59           30           38           34           60           71           56           71           57           78           57           78           56           56           41           74	20 88 47 54 27 30 32 82 76 61 69 64 62 20 61 78 56 49 52 54 22 54 52 54 52 54 52 52 54 54 54 54 54 54 54 54 54 54	21 82 48 58 46 26 28 89 77 77 64 66 66 69 72 21 21 57 80 46 44 53 65	22 90 60 51 40 27 30 80 77 77 78 58 67 73 73 22 62 72 50 43 62 52	23 89 58 50 46 29 45 60 64 72 74 72 79 23 64 68 50 41 58 51 	24 86 65 57 36 22 46 70 75 73 62 72 78 24 62 62 67 62 67 62 73 9 9 9 9 52 24 57 73 73 75 73 75 73 75 73 75 75 73 75 75 75 75 75 75 75 75 75 75	25 85 68 61 34 20 52 60 79 67 67 61 61 61 69 25 66 71 51 36 50 53	26 81 66 45 25 23 44 59 84 65 55 67 26 62 26 62 92 51 30 44 53 30 44	27 80 64 42 27 25 38 63 76 60 61 54 68 27 58 27 58 71 58 43 48 65 52 27	28 73 69 50 30 34 40 82 9 9 46 64 62 74 28 51 68 52 36 49 70 0	29 73 51 30 45 45 80 61 71 29 67 67 65 535 44 80	30 63 46 53 38 54 75 62 50 64 61 65 30 59 59 56 39 45 68	31 62 30 69 65 61 82 31 64 56 50	Average 82.3 62.7 57.5 36.8 31.7 40.0 63.6 74.6 66.8 59.6 62.3 70.5 Average 73.4 73.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 47.0 59.8 59.0 59.8 50.0 50.8 50.0 50.8 50.0 50.8 50.0 50.8 50.8 50.0 50.8 50.0
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55 71 37 52 70 70 70 70 70 70 70 70 70 70	12 85 44 55 55 44 72 65 56 64 12 76 59 53 66 53 36 62 74 75 56 50 58 12 76 56 50 58 12 76 50 58 12 76 50 50 50 50 50 50 50 50 50 50	13 90 64 56 88 88 88 80 75 52 65 63 88 80 75 52 65 83 80 75 52 65 83 80 95 85 85 85 85 85 85 9 80 55 55 85 85 85 80 70 55 55 85 80 80 80 80 80 80 80 80 80 80 80 80 80	14 81 62 52 28 35 66 63 69 14 81 87 55 41 41 39 45 58 82 76 75 57 59 54 41 41 39 45 58 82 66 63 63 69 81 81 87 54 63 69 81 81 87 54 63 69 81 81 87 54 66 63 69 81 81 87 54 66 63 69 81 81 87 55 66 63 66 81 69 81 81 87 55 66 63 69 81 81 87 55 66 63 63 69 81 81 87 55 66 81 69 81 81 87 55 66 60 81 81 81 87 55 66 81 82 82 82 82 82 82 82 83 82 82 83 82 82 82 83 82 82 83 82 83 83 83 83 83 83 83 83 83 83	15           84           67           53           25           24           80           73           49           64           75           77           53           47           77           53           47           780           92           53           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67           70           67           72           73           33           51           75           52           32           51           75           75	20 88 47 54 27 76 61 64 62 20 61 78 56 64 62 20 61 78 56 64 62 20 61 78 56 64 62 20 61 78 56 64 62 20 61 78 56 64 65 78 52 52 52 52 52 52 52 52 52 52	21 82 48 58 66 69 77 64 66 69 72 21 57 80 46 44 45 59 78 63 57 21 76 63 57 77 63 57 77 64 66 69 72 72 72 72 77 77 77 77 77 77	22 90 60 51 27 30 77 78 80 77 73 62 62 62 72 62 72 62 72 65 65 64 70 66 66 66 58 22 72 72 55 55 55 53 8 47 757 70 69	23 89 58 50 60 60 60 60 64 72 79 23 64 68 50 64 68 50 61 66 62 68 55 55 55 55 53 51 64 69 60 60 60 60 60 60 60 60 60 60	24 86 65 57 70 73 62 72 72 72 72 72 72 73 62 72 73 62 73 62 74 62 67 46 46 63 66 66 66 66 66 56 56 22 24 64 64 63 95 57 57 62 72 72 73 73 62 70 73 73 73 62 72 72 73 73 62 72 72 73 73 62 72 72 73 73 62 72 72 73 73 62 72 72 73 73 62 72 72 73 73 62 72 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 62 72 73 73 73 73 73 73 73 73 73 73 73 73 73	25 85 63 61 34 34 34 34 34 36 60 79 67 61 61 69 25 66 71 51 51 66 63 69 77 76 66 68 62 25 66 65 50 60 60 60 70 72 72 72 72 72	26 81. 66 45 25 23 44 59 84 45 59 84 4 60 55 60 55 67 26 62 2 92 51 30 69 75 67 66 65 26 71 63 44 52 73 59 69 69	27 80 64 42 25 38 63 76 60 61 54 68 71 54 68 71 58 71 58 71 58 71 58 71 56 71 56 73 77 74 61 67 55 56 27 54 59 54 60 62 48 62 63 63 76 61 61 54 67 54 68 77 66 68 76 69 69 69	28 73 69 50 30 34 40 82 69 64 66 66 62 74 28 51 51 68 52 53 63 60 68 63 60 68 63 60 52 55 55 69 49 93 64 63	29         29           51         30           45         80           61         71           29         65           35         44           65         35           44         61           71         67           65         35           44         50           77         72           65         71           61         72           65         50           57         74           44         59           69         67	30 63 46 53 38 54 62 50 64 61 65 30 59 56 39 39 45 56 65 65 30 53 30 53 59 60 554 554 554 56 56 63	31 62 63 64 64 65 61 82 56 50 81 73 66 65 81 73 66 65 31 56 62 50 59 59 59	Average 82.3 82.7 57.5 53.5 83.1 7 40.0 63.6 66.2 7 7.4 6 66.2 7 7.5 7 8 9.6 62.3 7 0.5 7 8 8 8 4 7 0.5 7 8 8 8 4 7 0.5 5 9.6 8 7 3.4 7 7 5 9.6 8 9.6 6.2 3 7 0.5 5 5 9.6 8 9.6 6.2 3 7 0.5 5 9.6 8 9.6 6.2 3 7 0.5 5 5 9.6 8 9.6 6.2 3 7 0.5 5 9.7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 5 7 5 7 5 5 7 5 5 7 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 7 5 7 5 7 5 7 7 6 8 8 8 7 0.6 8 7 7 6 8 8 8 7 7 6 8 8 7 7 4 6 8 8 7 7 4 6 8 7 7 4 6 8 7 7 4 6 8 7 7 4 6 8 7 7 4 6 8 7 7 4 7 7 4 6 8 7 7 4 7 7 4 7 9 8 8 8 7 7 7 5 7 8 8 8 7 7 7 7 8 8 8 8 7 7 7 7
2012 × 12 2011 × 12 2010 × 12	Day Mar Jan Jan Feb Mar Jun Jun Jun Jun Jun Jun Jun Jun Jun Jun	1           81           62           72           44           36           73           62           61           92           71           88           466           77           80           67           73           80           67           737           48           79           67           737           80           67           57           80           67           739           500           51           54           36           75           54           36           75           54           56	2 80 68 69 44 33 25 57 59 61 2 80 0 67 75 9 61 2 80 0 67 78 50 4 49 49 68 65 57 57 59 61 80 79 66 80 66 80 67 78 78 50 66 80 69 80 69 80 69 80 69 80 69 80 69 80 69 80 69 80 69 80 69 80 69 80 69 80 60 80 80 80 80 80 80 80 80 80 80 80 80 80	3           77           67           59           74           55           55           70           3           93           63           93           63           92           47           77           3           63           92           47           72           1           69           66           58           57           3           68           68           66           60           51           52           63           68           68           68           68           68           68           68           68           68           68           68           68           68           68           68           68           68           68	4 87 69 86 28 37 73 50 52 71 4 93 37 72 80 37 73 77 37 75 80 37 75 80 37 75 80 37 75 80 37 75 80 37 75 80 80 37 75 80 80 80 80 80 80 80 80 80 80	5 83 81 46 53 5 50 67 75 55 73 75 55 73 76 72 75 41 43 76 78 75 59 3 76 72 55 57 73 76 75 55 73 76 75 55 73 76 75 55 73 76 75 55 73 76 75 55 73 76 75 55 73 76 76 75 55 73 76 75 55 73 76 75 55 73 76 76 75 55 73 76 76 75 55 73 76 76 75 55 73 76 76 76 75 55 73 76 76 72 55 73 76 72 55 73 76 72 55 73 76 72 55 73 76 72 55 55 73 76 72 55 55 73 76 72 55 55 72 55 73 76 72 55 55 72 55 72 55 72 55 72 55 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 55 72 70 55 70 55 72 70 55 70 70 55 70 70 55 70 70 55 70 70 55 70 55 70 55 70 55 70 55 70 55 55 70 55 55 70 55 55 70 55 55 55 55 55 55 55 55 55 5	6           85           60           69           44           57           41           66           61           61           62           94           43           94           70           94           70           94           72           82           71           44           59           82           55           66           755           55           66           75           55           66           67           59           64           59           62	7 87 72 82 39 50 52 53 61 79 90 86 62 2 51 39 90 86 62 2 51 57 7 7 91 57 7 7 91 57 57 7 8 65 51 57 57 65 57 57 57 57 57 57 57 57 57 57 57 50 50 50 50 50 50 50 50 50 50 50 50 50	8         8           87         85           63         38           84         42           51         59           84         80           79         8           86         72           8         86           72         8           86         72           8         86           77         72           81         63           63         552           54         8           8         8           50         61           46         51           52         52           78         78           8         85           9         62	9 93 66 58 35 39 41 49 40 70 71 62 59 66 72 59 66 72 55 54 86 77 77 88 61 9 9 9 86 72 77 77 88 61 9 9 9 88 61 72 77 77 88 61 85 85 52 77 77 77 88 61 82 70 70 70 70 70 70 70 70 70 70 70 70 70	10 88 67 355 38 38 38 38 38 38 38 38 38 38	111 115 117 117 118 111 111 111 111 111	12 85 54 55 54 28 36 68 64 12 76 59 53 75 36 27 75 36 27 75 53 62 76 76 59 36 75 53 65 53 65 53 75 53 65 53 75 53 65 53 75 53 75 53 65 53 77 53 62 74 74 75 56 66 66 66 66 66 66 66 76 76 7	13 90 64 56 38 88 80 75 52 65 52 63 75 85 52 63 87 53 85 54 40 54 40 54 40 54 40 54 85 55 85 59 59 60 58 59 59 59 70 66 55 59 59 70 66 59 59 59 59 59 59 59 59 59 59 59 59 59	14 81 62 52 28 35 54 66 79 76 54 63 69 14 81 87 55 41 45 58 82 76 57 59 54 45 55 45 45 55 45 45 55 45 4	15           84           67           53           25           24           80           73           49           64           75           15           97           77           53           58           61           15           82           55           53           58           61           55           53           53           53           89           84           93	16           79           59           47           26           59           66           72           16           66           72           16           66           72           38           36           59           63           16           85           55           65           41           456           88           55           55           55           55           55           55           55           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67 73 73 22 62 58 64 70 62 55 55 55 55 55 55 55 55 55 55 55 55 55	23 89 58 50 64 60 64 72 79 23 64 68 50 64 68 50 61 55 53 55 55 55 55 55 55 55 55	24 86 65 77 73 62 72 72 78 24 62 67 46 39 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	25 85 68 61 34 20 52 66 67 71 51 66 50 53 36 66 68 62 25 66 68 62 25 66 63 55 50 66 63 55 66 63 50 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 65 50 66 66 50 50 50 66 66 50 50 50 50 66 66 66 66 66 66 66 66 66 6	26 81 66 45 23 44 59 84 45 59 84 4 60 55 67 26 62 26 62 26 71 30 0 4 4 52 7 67 67 67 67 67 67 67 67 67 67 67 67 6	27 80 64 42 27 25 38 63 76 6 60 61 54 68 8 71 56 43 75 8 85 73 77 74 61 67 56 43 77 74 61 67 56 63 69 63	28 73 69 50 30 34 40 62 74 28 51 68 52 36 64 62 74 74 28 55 52 36 63 86 49 9 70 70 70 70 86 63 86 49 63 86 9 52 55 55 52 55 50 69 63 86 84 64 63 85 63 85 63 85 63 85 63 85 63 63 63 63 64 64 64 64 64 64 64 64 64 64 64 64 64	29 73 51 30 45 80 61 61 61 61 61 71 29 65 35 65 65 35 77 72 29 54 44 61 61 77 72 72 9 50 50 57 77 74 44 61 61 77 70 70 70 70 70 70 70 70 70 70 70 70	30 63 63 85 53 53 75 62 50 50 64 65 59 56 39 59 56 39 59 56 66 65 53 53 53 53 53 53 53 53 53 53 53 53 53	31 62 63 64 64 65 65 65 64 65 66 66 66 66 66 50 50 50 50 50 50 50 50 50 50 66 66 62 50 50 50 50 50 50 50 50 50 50 50 50 50	Average 82.3 62.7 57.5 56.8 36.8 31.7 4.0 0 63.6 66.8 59.6 62.3 70.5 73.4 73.0 73.4 73.0 73.4 73.0 70.5 73.4 73.0 73.4 73.0 73.4 73.0 73.5 8 8 8 70.5 73.4 73.0 73.5 73.4 73.5 73.4 73.0 73.5 73.5 73.5 73.5 73.5 73.5 73.5 73.5

# 3) Rainfall (Faisalabad University meteorological station, Unit :mm)

	Anni	Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
IV.		Jan	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.4	0.0	0.0	0.0	0.4	7.0	0.0	0.0	0.0	32.8
	-	Feb	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	1.0	8.0	7.5	0.0	0.0	0.0	5.0	5.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.1
	h	Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.6	0.0	0.2	0.0	0.0	6.0	4.8	0.0	0.0	0.0	0.0	48.6
	Ĩ	May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4
L C	ŝ	Jun Jul	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	<u>0.0</u> 42.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	19.0	0.0	62.5 88.0
ł	2	Aug	1.5	8.5	0.0	0.0	0.0	0.0	0.0	12.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.6
	-	Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	16.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.6
	Ľ	Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	┝	Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		TULAI																													1			442.4
N	Nont	Day th	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Γ		Jan	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
	ŀ	⊢eb Mar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4 0.0	0.0	0.0	9.2	0.0	12.0	0.0	0.0	0.0	14.6 37.0
	ļ	Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	h	May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	24.0
8	00	Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	2.4	36.0
ľ	.~ -	Aug	0.0	0.0	0.0	0.4	0.0	28.0	0.0	10.2	0.0	7.2	0.0	0.0	0.0	0.0	15.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	79.2
	t	Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4
	F	Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8
	ŀ	Total	0.0	0.0	0.0	0.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	46.2 397.2
F	_	Dev										-		_	_						_		_		_			_			-		_	
Ν	<u>Non</u> t	th	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	ŀ	Jan Feh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 55 9
	Ľ	Mar	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.3	0.0	11.4	12.4	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.3
	-	Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Jun	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	2.5	0.0	5.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	29.9
.000	200	Jul	0.0	5.0	0.3	0.0	0.0	0.0	0.0	1.5	70.0	0.0	0.0	0.0	7.0	4.6	38.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	1.3	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	149.7
	ŀ	Aug Sep	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5
		Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ŀ	Nov Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L		Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	330.6
								1		5	,		,		_				,	- 1	-					-			2		1	1		1
Γ		Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1.31	Total
Ν	Aont	th Jan	1	2	3	4	5	6	7	8	9	10 27.0	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25 0.0	26	27	28	29 0.0	30 0.0	31	Total 46.6
N	Aont	Day th Jan Feb	1 0.0 0.0	2 0.0 0.0	3 0.0 5.6	4 0.0 0.0	5 0.0 0.0	6 0.3 0.0	7 0.0 0.8	8 0.8 0.4	9 6.8 0.0	10 27.0 0.0	11 0.0 0.0	12 0.0 0.0	13 0.0 0.0	14 0.0 0.0	15 0.0 0.0	16 0.0 0.0	17 0.4 0.0	18 11.3 0.0	19 0.0 0.0	20 0.0 0.0	21 0.0 0.0	22 0.0 0.0	23 0.0 0.0	24 0.0 0.0	25 0.0 0.0	26 0.0 0.0	27 0.0 0.0	28 0.0 0.0	29 0.0 0.0	30 0.0 0.0	31 0.0 0.0	Total 46.6 6.8
~	Aont	Day th Jan Feb Mar	1 0.0 0.0 0.0	2 0.0 0.0 0.0	3 0.0 5.6 0.0 5.2	4 0.0 0.0 0.0	5 0.0 0.0 0.0	6 0.3 0.0 0.0	7 0.0 0.8 0.0	8 0.8 0.4 0.0	9 6.8 0.0 0.0	10 27.0 0.0 0.0	11 0.0 0.0 0.0	12 0.0 0.0 0.0	13 0.0 0.0 0.0	14 0.0 0.0 0.0	15 0.0 0.0 0.0	16 0.0 0.0 0.0 6.1	17 0.4 0.0 0.0	18 11.3 0.0 0.0	19 0.0 0.0 0.0	20 0.0 0.0 0.0	21 0.0 0.0 0.0	22 0.0 0.0 0.0	23 0.0 0.0 0.0	24 0.0 0.0 0.0	25 0.0 0.0 0.0	26 0.0 0.0 0.0	27 0.0 0.0 0.0	28 0.0 0.0 0.0	29 0.0 0.0 0.0	30 0.0 0.0 0.0	31 0.0 0.0 0.0	Total 46.6 6.8 0.0
~	/ont	Day th Jan Feb Mar Apr May	1 0.0 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.2 0.0	3 5.6 0.0 5.2 0.0	4 0.0 0.0 0.0 0.0 0.0	5 0.0 0.0 1.4 0.0	6 0.3 0.0 0.0 0.6 0.0	7 0.0 0.8 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0	9 6.8 0.0 0.0 0.0 1.9	10 27.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0	12 0.0 0.0 1.3 0.0	13 0.0 0.0 0.0 0.0 0.0	14 0.0 0.0 0.0 11.0	15 0.0 0.0 1.2 0.0	16 0.0 0.0 6.1 0.0	17 0.4 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0	20 0.0 0.0 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0	22 0.0 0.0 0.0 11.2	23 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.2	25 0.0 0.0 0.0 0.0 8.0	26 0.0 0.0 0.0 35.5	27 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 0.0 7.7	29 0.0 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0	Total 46.6 6.8 0.0 16.0 75.5
~	Aont	Day th Jan Feb Mar Apr May Jun	1 0.0 0.0 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.2 0.0 0.0	3 0.0 5.6 0.0 5.2 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0	5 0.0 0.0 1.4 0.0 0.0	6 0.3 0.0 0.0 0.6 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0	10 27.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 13.0	12 0.0 0.0 1.3 0.0 0.0	13 0.0 0.0 0.0 0.0 0.0 0.0	14 0.0 0.0 0.0 11.0 0.0	15 0.0 0.0 1.2 0.0 0.0	16 0.0 0.0 6.1 0.0 0.0 0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 1.4	20 0.0 0.0 0.0 0.0 15.0	21 0.0 0.0 0.0 0.0 0.0 0.0	22 0.0 0.0 0.0 11.2 4.0	23 0.0 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.2 0.0	25 0.0 0.0 0.0 8.0 0.0	26 0.0 0.0 0.0 35.5 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 7.7 0.0	29 0.0 0.0 0.0 0.0 0.0 8.3	30 0.0 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0 0.0	Total 46.6 6.8 0.0 16.0 75.5 41.7
<u> </u>	2008 2008	Day Jan Feb Mar Apr May Jun Jul Aug	1 0.0 0.0 0.0 0.0 0.0 0.0 54.5	2 0.0 0.0 0.2 0.0 0.0 0.0 18.0	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5 0.0 0.0 1.4 0.0 0.0 0.0 25.5	6 0.3 0.0 0.0 0.0 0.0 0.0 26.0	7 0.0 0.8 0.0 0.0 0.0 4.7 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 13.0 0.0 2.0	12 0.0 0.0 1.3 0.0 10.1 62.1	13 0.0 0.0 0.0 0.0 0.0 0.0 4.7	14 0.0 0.0 0.0 11.0 0.0 0.0 0.0	15 0.0 0.0 1.2 0.0 4.2 0.0	16 0.0 0.0 6.1 0.0 0.0 0.0 0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 1.4 0.0 0.0	20 0.0 0.0 0.0 0.0 15.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0 1.2 0.0	22 0.0 0.0 0.0 11.2 4.0 48.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.0	25 0.0 0.0 0.0 8.0 0.0 0.0 0.0	26 0.0 0.0 35.5 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 7.7 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 8.3 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0 0.0 9.7	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5
~ ~	Z000	Day Jan Feb Mar Apr May Jun Jun Jul Aug Sep	1 0.0 0.0 0.0 0.0 0.0 0.0 54.5 0.0	2 0.0 0.0 0.2 0.0 0.0 0.0 18.0 0.0	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5 0.0 0.0 1.4 0.0 0.0 25.5 0.0	6 0.3 0.0 0.6 0.0 0.0 0.0 26.0 6.9	7 0.0 0.8 0.0 0.0 0.0 0.0 4.7 0.0 1.2	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 13.0 0.0 2.0 0.0	12 0.0 0.0 1.3 0.0 10.1 62.1 0.0	13 0.0 0.0 0.0 0.0 0.0 0.0 4.7 0.0	14 0.0 0.0 0.0 11.0 0.0 0.0 0.0 0.0	15 0.0 0.0 1.2 0.0 4.2 0.0 0.0 0.0	16 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0	20 0.0 0.0 0.0 15.0 0.0 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0 1.2 0.0 0.0	22 0.0 0.0 11.2 4.0 48.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20.7	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.0 0.0	25 0.0 0.0 0.0 8.0 0.0 0.0 0.0 0.0	26 0.0 0.0 35.5 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 7.7 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 8.3 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0 0.0 9.7 0.0	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 28.8 28.8
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2008	Day Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov	1 0.0 0.0 0.0 0.0 0.0 54.5 0.0 0.0 0.0	2 0.0 0.0 0.2 0.0 0.0 0.0 18.0 0.0 0.0 0.0	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0	6 0.3 0.0 0.0 0.0 0.0 0.0 26.0 6.9 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 4.7 0.0 1.2 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 13.0 2.0 0.0 0.0 0.0 0.0	12 0.0 0.0 1.3 0.0 0.0 10.1 62.1 0.0 0.0 0.0	13 0.0 0.0 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0	14 0.0 0.0 0.0 11.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 1.2 0.0 4.2 0.0 0.0 0.0 0.0 0.0	16 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0	20 0.0 0.0 0.0 15.0 0.0 0.0 0.0 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0	22 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 20.7 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	25 0.0 0.0 0.0 8.0 0.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 7.7 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 8.3 0.0 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0
► 0000	2008 2008	Day th Jan Feb Mar Apr May Jun Jun Jul Aug Sep Oct Nov Dec	1 0.0 0.0 0.0 0.0 0.0 54.5 0.0 0.0 0.0 0.0	2 0.0 0.2 0.0 0.0 0.0 18.0 0.0 0.0 0.0 0.0 0.0	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0 0.0	6 0.3 0.0 0.6 0.0 0.0 26.0 6.9 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 4.7 0.0 1.2 0.0 0.0 0.0	8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 2.9	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 13.0 2.0 0.0 0.0 0.0 0.0 0.0	12 0.0 0.0 1.3 0.0 10.1 62.1 0.0 0.0 0.0 0.0	13 0.0 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0 0.0	14 0.0 0.0 0.0 11.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 1.2 0.0 0.0 4.2 0.0 0.0 0.0 0.0 0.0 0.0	16 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20 0.0 0.0 0.0 15.0 0.0 0.0 0.0 0.0 0.0 10.5	21 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 1.2	22 0.0 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 20.7 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	25 0.0 0.0 0.0 8.0 0.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 7.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 8.3 0.0 0.0 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0	Total 46.6 6.8 0.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6
2000	2008 2008	Day dan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total	1 0.0 0.0 0.0 0.0 0.0 54.5 0.0 0.0 0.0 0.0	2 0.0 0.0 0.2 0.0 0.0 18.0 0.0 0.0 0.0 0.0 0.0	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 1.4 0.0 25.5 0.0 0.0 0.0 0.0 0.0	6 0.3 0.0 0.6 0.0 26.0 6.9 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 4.7 0.0 1.2 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0 2.9	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 13.0 0.0 2.0 0.0 0.0 0.0 0.0	12 0.0 0.0 1.3 0.0 10.1 62.1 0.0 0.0 0.0 0.0	13 0.0 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0 0.0 0.0	14 0.0 0.0 0.0 11.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 1.2 0.0 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20 0.0 0.0 0.0 15.0 0.0 0.0 0.0 0.0 0.0 10.5	21 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 1.2	22 0.0 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 20.7 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	25 0.0 0.0 0.0 8.0 0.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 7.7 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 8.3 0.0 0.0 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1
	/ Mont 80.02 Mont	Day th Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total	1 0.0 0.0 0.0 0.0 0.0 54.5 0.0 0.0 0.0 0.0 1	2 0.0 0.0 0.2 0.0 0.0 18.0 0.0 0.0 0.0 0.0 2	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0 5	6 0.3 0.0 0.6 0.0 0.0 26.0 6 9 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 4.7 0.0 1.2 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 2.9 9	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 13.0 2.0 0.0 0.0 0.0 0.0 11	12 0.0 0.0 1.3 0.0 10.1 62.1 0.0 0.0 0.0 0.0 12	13 0.0 0.0 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0 0.0 13	14 0.0 0.0 0.0 11.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 1.2 0.0 0.0 4.2 0.0 0.0 0.0 0.0 0.0 15	16 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 16	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 19	20 0.0 0.0 0.0 15.0 0.0 0.0 0.0 0.0 0.0 10.5 20	21 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 1.2 21	22 0.0 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0 0.0 22	23 0.0 0.0 0.0 0.0 0.0 0.0 20.7 0.0 0.0 0.0 20.7 2.3	24 0.0 0.0 0.0 0.0 0.0 2.0 0.0 0.0 0.0 0.0	25 0.0 0.0 0.0 8.0 0.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 26	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 7.7 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 8.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 29	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 9.7 0.0 0.0 0.0 0.0 0.0 31	Total 46.6 6.8 0.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total
	Aont 800Z	Day th Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total Day	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 4.7 0.0 1.2 0.0 0.0 0.0 7 7 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 0.0 1.9 0.0 1.9 0.0 0.0 0.0 0.0 0.0 9 9 0.0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 10.1 62.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 1.2 0.0 4.2 0.0 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16 0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 1.2 21 0.0	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 20.7 0.0 0.0 0.0 20.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total 13.5
		Day Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total Day th Jan Feb Mar	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0 9 9 0.0 0.0 0.0 0.0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 10.1 62.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 28.8 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.2 13.5 18.2 14.2 1
		Day Jan Feb Mar Apr May Jun Jun Jun Jun Jun Jun Jun Jun Jun Sep Oct Nov Dec Total Day th Jan Feb Mar Apr May Apr Apr May Apr May Apr May Apr May Apr May Apr May Apr May Apr May Apr Dec Total Apr May Apr May Apr May Apr May Apr May Apr Apr Apr Apr Apr Apr Apr Apr Apr Apr	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 10.1 62.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total 13.5 18.2 13.5 18.2 14.0 0 22.9
		Day dan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Total Jan Feb Mar Apr May Jun	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0 5 5 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 26.0 6.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	7 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 28.8 0.0 14.6 516.1 Total 13.5 18.2 14.0 20.9 9.1 9.6 14.0 14.0 13.5 18.2 18.2 14.0 14
		Day dan Feb Mar Feb Mar Apr May Jun Aug Sep Oct Nov Dec Total Day th Day th Mar Apr May Jun Feb Mar Apr Apr Day th Jul	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 18.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 4.7 0.0 1.2 0.0 0.0 0.0 0.0 7 7 0.0 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 13.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 10.1 62.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18           11.3           0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 11.2 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.1 9.6 43.5
		Day bl Jan Feb Mar Apr May Jun Jun Jun Jun Jun Aug Sep Oct Nov Dec Total Day th Jan Aug Sep Oct Total Apr Apr Apr Apr Apr Apr Aug Sep Sep Sep Sep Sep Sep Sep Sep Sep Sep	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0 0.0 0.0 7 7 7 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 12 0.0 0.0 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18           11.3           0.0	19 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 7.7 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6. 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 29.9 9.1 9.6 43.5 116.0 20.0 20.0 14.0 22.9 9.1 14.0 22.9 2.1 9.0 14.0 22.9 2.1 9.0 14.0 2.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
		Day bl Jan Feb Mar Apr May Jun Jul Aug Sep Oct Total Day th Jan Feb Mar Apr Apr Apr Agr Apr Oct Day Cot Day Cot Sep Oct	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0 5 5 3.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 2.9 9 9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 10.1 62.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 0.0 1.2 0.0 0.0 4.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 11.2 4.0 48.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 355 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 68 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.1 18.0 22.9 9.1 14.0 22.9 9.1 14.0 22.9 9.1 16.0 20.0 16.0 20.0 16.0 20.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 17.5 16.0 16.0 17.5 16.0 16.0 17.5 16.0 17.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 17.5 16.0 16.0 16.0 16.0 17.5 16.0 16.0 17.5 16.0 16.0 17.5 16.0 17.5 16.0 17.5
		Day th Jan Feb Mar Apr May Jun Jun Jun Aug Sep Oct Nov Dec Total Day th Aug Sep Oct Nov Dec Mar Aug Sep Oct Nov Dec May Day th Aug Sep Oct Nov Dec Day th Aug Sep Oct Nov Dec Day th Aug Sep Oct Nov Day Day Day Day Day Total Sep Day th Aug Sep Oct Nov Day Day Day Day Day Day Day Day Day Day	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 25.0 6.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	7 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	9 6.8 0.0 1.9 0.0 1.3.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18           11.3           0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 68 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.1 18.0 22.9 9.1 18.0 22.9 9.1 16.0 20.0 18.0 11.0 19.0 11.0 11.0 19.0 11.0 11.0 19.0 11.0 1
		Daya Jan Feb Mar Apr Agr Aug Sep Oct Total Day th May Jun Jun Jun Sep Oct Total	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 0.0 1.9 0.0 13.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 10.1 62.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 8.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.2 14.0 22.9 9.1 4.3.5 18.2 14.0 22.9 9.1 9.6 4.3.5 18.2 1.9 6.5 1.6 1.7 0.0 2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
		Day by the second secon	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 0.0 1.9 0.0 1.3 4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16           0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 11.2 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.2 14.0 22.9 9.1 4.3 5 16.0 20.0 0.0 0.0 0.0 0.0 0.0 0.0
		Day by the Jan Agent Agent Jun Jun Jun Jun Jun Jun Jun Jun Jun Jun	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7           0.0           0.8           0.0 <t< td=""><td>8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>9 6.8 0.0 0.0 1.9 0.0 1.3 4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td><td>10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td><td>12 0.0 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td><td>13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>15           0.0           0.0           0.0           0.0           1.2           0.0      &lt;</td><td>16           0.0</td><td>17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td><td>19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td><td>21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>22 0.0 0.0 0.0 0.0 11.2 40.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>28 0.0 0.0 0.0 7.7 0.0 0.0 0.0 0.0 0.0 0.0</td><td>29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td><td>31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td><td>Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.6 43.5 11.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td></t<>	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 1.9 0.0 1.3 4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15           0.0           0.0           0.0           0.0           1.2           0.0      <	16           0.0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 11.2 40.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 7.7 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.6 43.5 11.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
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		Day Day the Jan Feb Mar Apr. Apr. Jun Jul Aug Sep Oct Day th Jan Feb Mar Apr. Total Day th Jan Feb Mar May Mar Apr. Day th Mar Apr. Day Mar Mar Aug Sep Oct Total Mar Apr. Day Mar Apr. Day Mar Apr. Aug Sep Oct Day Mar Apr. Day Mar Apr. Aug Sep Day Mar Apr. Day Mar Aug Sep Day Mar Apr. Day Mar Aug Sep Day Mar Apr. Day Mar Aug Sep Day Mar Apr. Day Apr. Day Mar Aug Sep Day Mar Apr. Day Mar Aug Sep Day Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Mar Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7           0.0           0.8           0.0	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 0.0 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15           0.0           0.0           0.0           1.2           0.0           1.2           0.0           1.2           0.0           1.2           0.0	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0,4 0,0 0,0 0,0 0,0 0,0 0,0 0,0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 35.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 20.6 17.5 18.0 20.6 17.5 16.0 20.6 17.5 16.0 20.6 17.5 16.0 20.6 17.5 16.0 20.6 17.5 16.0 20.6 17.5 16.0 20.6 17.5 16.0 20.6 17.5 16.0 20.6 17.5 18.5 18.2 19.5 10.5 19.5
		Dayy by Jan Feb Mar Apr Apr Agr Jun Jul Jan Jul Jan Joy Dec Total Day th Jan Feb Mar Apr Nov Dec Total Day th Jan Jul Aug Sep Oct Total Day Sep Oct Mar Mar Sep Jul Aug Sep Mar Sep Mar Sep Mar Sep Mar May Jul Aug Sep Jul Aug Sep Jul Aug Sep Mar Sep Sep Sep Mar Sep Sep Sep Mar Sep Sep Sep Sep Sep Sep Sep Sep Sep Sep	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 0.0 1.4 0.0 0.0 25.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	9 6.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0.0 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18           11.3           0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.1 13.5 18.2 14.0 22.9 9.1 13.5 16.0 7.5 16.0 14.7 13.5 18.2 14.0 22.9 9.1 13.5 16.0 14.5 16.0 14.7 14.0 22.9 9.1 13.5 16.0 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 16.0 13.5 16.0 14.0 22.9 9.1 13.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 22.5 16.0 20.0
		Day by drawn of the second sec	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	9 6.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15 0,0 0,0 0,0 1,2 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0	16           0.0	17 0,4 0,0 0,0 0,0 0,0 0,0 0,0 0,0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 11.2 4.0 4.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.6 516.1 Total Total 13.5 18.2 14.0 22.9 9.1 9.6 43.5 116.0 22.9 9.1 1.9 6 43.5 116.0 22.9 9.1 1.9 6 43.5 116.0 22.9 9.1 1.9 6 43.5 116.0 22.9 9.1 1.9 6 43.5 116.0 22.9 9.1 1.9 6 43.5 1.1 2.0 2.0 9.1 1.0 2.0 2.0 1.1 1.0 2.0 2.0 1.1 1.0 2.0 1.1 1.0 2.0 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1
		Dayy the Jan Feb Mar Apr Agr Jul Jul Jul Jul Jul Jul Jul Day Dec Total Day Dec Total Day Dec Total Day Day Day Agr Agr Agr Agr Agr Agr Agr Agr	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 5.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	9 6.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15           0.0           0.0           0.0           0.0           12           0.0	16 0.0 0.0 0.0 6.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 11.2 4.0 4.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 14.66 516.1 Total Total 75.5 18.2 14.0 22.9 9.1 14.0 22.9 9.1 14.0 22.9 9.1 14.0 22.9 9.1 14.0 22.9 9.1 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 14.0 22.5 18.2 11.5 18.2 11.9 18.2 10.0 8.8 8.8 1.3 11.2 10.0 27.7 8.2 26.5 10.0 27.7 8.2 26.5 10.0 27.7 8.2 26.5 10.0 27.7 8.2 26.5 10.0 27.7 8.2 26.5 10.2 10.0 27.7 8.2 26.5 10.0 27.7 8.2 26.5 10.0 27.7 8.2 26.5 10.0 27.7 8.2 26.5 10.0 27.8 27.
		Day Day by th Jan Feb Mar Apr Jun Jun Jun Jun Jun Jun Jun Jun	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 5.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	6 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	9 6.8 0.0 0.0 0.0 1.9 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	10 27.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	12 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	14 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	15           0.0           0.0           0.0           0.0           12           0.0 <td>16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>18           11.3.           0.0</td> <td>19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td> <td>21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td> <td>23 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,</td> <td>24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0</td> <td>31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.</td> <td>Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.6 43.5 11.9 9.6 43.5 11.9 9.6 43.5 11.9 9.6 43.5 11.9 9.6 43.5 11.9 8.8 11.9 1.9 8.8 1.12 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td>	16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	17 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18           11.3.           0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	25 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Total 46.6 6.8 0.0 16.0 75.5 41.7 81.6 204.5 28.8 0.0 0.0 0.0 14.6 516.1 Total 13.5 18.2 14.0 22.9 9.6 43.5 11.9 9.6 43.5 11.9 9.6 43.5 11.9 9.6 43.5 11.9 9.6 43.5 11.9 8.8 11.9 1.9 8.8 1.12 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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Mo	Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
	Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Feb	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	20.6
	Mar	4.3	0.0	2.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
	Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.6	0.0	0.0	0.0	17.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9
	May	0.0	0.0	0.0	0.0	0.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6
-	Jun	23.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	28.5	1.2	0.0	0.0	78.3
5	Jul	11.2	19.6	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	5.3	0.0	13.2	118.1
2	Aug	12.5	0.0	0.0	0.0	0.0	7.5	0.0	0.0	10.1	0.0	0.0	0.0	1.1	0.0	3.0	19.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.0	3.5	0.0	7.4	11.0	92.6
	Sep	0.0	0.0	0.0	11.0	25.2	4.8	0.0	15.5	7.7	0.2	0.0	0.0	0.2	0.0	1.0	89.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	155.1
	Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
	Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total																																511.4
Mo	Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Mo	Day nth	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
Mo	Day nth Jan Feb	1	2	3	4	5	6 0.0	7	8 2.0	9	10 0.0	11 0.0	12 0.0 2.1	13 0.0 3.4	14 0.0	15 0.0	16 1.8	17 0.0	18 0.0	19 0.0	20 0.0	21	22	23 0.0	24 0.0	25 0.0	26 0.0	27 0.0	28 0.0	29 0.0	30 0.0	31 0.0	Total 3.8 8.0
Mo	Day nth Jan Feb Mar	1 0.0 0.0	2 0.0 0.0	3 0.0 0.0	4 0.0 0.0	5 0.0 2.0	6 0.0 0.0	7 0.0 0.0	8 2.0 0.0	9 0.0 0.0	10 0.0 0.0	11 0.0 0.0	12 0.0 2.1	13 0.0 3.4	14 0.0 0.0	15 0.0 0.0	16 1.8 0.0	17 0.0 0.0	18 0.0 0.0	19 0.0 0.0	20 0.0 0.5	21 0.0 0.0	22 0.0 0.0	23 0.0 0.0	24 0.0 0.0	25 0.0 0.0	26 0.0 0.0	27 0.0 0.0	28 0.0 0.0	29 0.0 0.0	30 0.0 0.0	31 0.0 0.0	Total 3.8 8.0
Mo	Day nth Jan Feb Mar Apr	1 0.0 0.0 0.0	2 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0	5 0.0 2.0 1.5 0.0	6 0.0 0.0 0.0	7 0.0 0.0 0.0 0.3	8 2.0 0.0 0.0	9 0.0 0.0 0.0 0.0	10 0.0 0.0 0.0 0.0	11 0.0 0.0 0.0 2.5	12 0.0 2.1 0.0 0.0	13 0.0 3.4 0.0 0.0	14 0.0 0.0 0.0 5.0	15 0.0 0.0 0.0	16 1.8 0.0 0.0	17 0.0 0.0 0.0	18 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0	20 0.0 0.5 0.0 0.0	21 0.0 0.0 0.0 0.0	22 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0	25 0.0 0.0 0.0 2.0	26 0.0 0.0 0.0 0.7	27 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0	Total 3.8 8.0 1.5 10.5
Mo	Day nth Jan Feb Mar Apr May	1 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0	5 0.0 2.0 1.5 0.0	6 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.3 0.0	8 2.0 0.0 0.0 0.0	9 0.0 0.0 0.0 0.0	10 0.0 0.0 0.0 0.0	11 0.0 0.0 2.5 0.0	12 0.0 2.1 0.0 0.0	13 0.0 3.4 0.0 0.0 0.0	14 0.0 0.0 0.0 5.0	15 0.0 0.0 0.0 0.0 0.0	16 1.8 0.0 0.0 0.0	17 0.0 0.0 0.0 0.0	18 0.0 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0	20 0.0 0.5 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0	22 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0	25 0.0 0.0 0.0 2.0 0.0	26 0.0 0.0 0.0 0.7 0.0	27 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0	Total 3.8 8.0 1.5 10.5 0.0
Mo	Day nth Jan Feb Mar Apr May Jun	1 0.0 0.0 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0	5 0.0 2.0 1.5 0.0 0.0	6 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.3 0.0 0.0	8 2.0 0.0 0.0 0.0 0.0	9 0.0 0.0 0.0 0.0 0.0	10 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 2.5 0.0	12 0.0 2.1 0.0 0.0 0.0	13 0.0 3.4 0.0 0.0 0.0 3.6	14 0.0 0.0 5.0 0.0	15 0.0 0.0 0.0 0.0 0.0	16 1.8 0.0 0.0 0.0 0.0	17 0.0 0.0 0.0 0.0 0.0	18 0.0 0.0 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0 0.0	20 0.0 0.5 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0 0.0	22 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 0.0	25 0.0 0.0 0.0 2.0 0.0	26 0.0 0.0 0.0 0.7 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 0.0 20.0	30 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0	Total 3.8 8.0 1.5 10.5 0.0 23.6
012 🛛 📈	Day nth Jan Feb Mar Apr May Jun Jul	1 0.0 0.0 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5 0.0 2.0 1.5 0.0 0.0 0.0	6 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.3 0.0 0.0	8 2.0 0.0 0.0 0.0 0.0 30.0	9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 2.5 0.0 0.0 0.0	12 0.0 2.1 0.0 0.0 0.0 0.0 0.0	13 0.0 3.4 0.0 0.0 0.0 3.6 10.0	14 0.0 0.0 5.0 0.0 0.0 0.0 2.4	15 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16 1.8 0.0 0.0 0.0 0.0 0.0 0.0	17 0.0 0.0 0.0 0.0 0.0 0.0	18 0.0 0.0 0.0 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20 0.0 0.5 0.0 0.0 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.0	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0	25 0.0 0.0 2.0 0.0 0.0 0.0	26 0.0 0.0 0.0 0.7 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 0.0 20.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0 0.0	Total 3.8 8.0 1.5 10.5 0.0 23.6 45 4
2012	Day nth Feb Mar Apr May Jun Jul Aug	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5 0.0 2.0 1.5 0.0 0.0 0.0 0.0 5.5	6 0.0 0.0 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.3 0.0 0.0 0.0	8 2.0 0.0 0.0 0.0 0.0 30.0 0.0	9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 2.5 0.0 0.0 0.0 0.0 5.0	12 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0	13 0.0 3.4 0.0 0.0 0.0 3.6 10.0	14 0.0 0.0 5.0 0.0 0.0 2.4	15 0.0 0.0 0.0 0.0 0.0 0.0 0.0	16 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.0	17 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20 0.0 0.5 0.0 0.0 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.0 7.0	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 8.0	25 0.0 0.0 2.0 0.0 0.0 0.0 0.0	26 0.0 0.0 0.0 0.7 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 20.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.5	Total 3.8 8.0 1.5 10.5 0.0 23.6 45.4 38.5
2012	Day nth Jan Feb Mar Apr May Jun Jun Jul Aug Sep	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	5 0.0 1.5 0.0 0.0 0.0 5.5 15.0	6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.7	7 0.0 0.0 0.3 0.0 0.0 0.0 0.0 5.0	8 2.0 0.0 0.0 0.0 0.0 30.0 0.0	9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 48.0	10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	11 0.0 0.0 2.5 0.0 0.0 0.0 5.0 0.0	12 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13 0.0 3.4 0.0 0.0 3.6 10.0 0.0 0.0	14 0.0 0.0 5.0 0.0 0.0 2.4 4.0 0.0	15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.0	16 1.8 0.0 0.0 0.0 0.0 0.0 0.0 2.0 30.0	17 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 46.5	18 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0 0.0 0.0 3.0 7.0 0.0	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 8.0 0.0	25 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 0.0 0.7 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	29 0.0 0.0 0.0 0.0 20.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0 0.0 6.5 0.0	Total 3.8 8.0 1.5 10.5 0.0 23.6 45.4 38.5 163.7
2012	Day nth Jan Feb Mar Apr May Jun Jul Aug Sep Oct	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 2.0 1.5 0.0 0.0 0.0 5.5 15.0 0.0	6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.7	7 0.0 0.0 0.3 0.0 0.0 0.0 0.0 5.0 0.0	8 2.0 0.0 0.0 0.0 30.0 30.0 0.0 0.0	9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 48.0	10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	11 0.0 0.0 2.5 0.0 0.0 5.0 0.0 0.0	12 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13 0.0 3.4 0.0 0.0 3.6 10.0 0.0 0.0 0.0	14 0.0 0.0 5.0 0.0 2.4 4.0 0.0	15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.0 7.0	16 1.8 0.0 0.0 0.0 0.0 0.0 2.0 30.0 0.0	17 0.0 0.0 0.0 0.0 0.0 0.0 0.0 46.5 0.0	18 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	21 0.0 0.0 0.0 0.0 0.0 0.0 3.0 7.0 0.0 0.0	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 8.0 0.0 4.5	25 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 20.0 0.0 0.0 0.0 0.0	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	31 0.0 0.0 0.0 0.0 0.0 6.5 0.0 0.0	Total 3.8 8.0 1.5 10.5 0.0 23.6 45.4 38.5 163.7 11.5
2012	Day Jan Feb Mar Apr Jun Jun Jul Aug Sep Oct Nov	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 2.0 1.5 0.0 0.0 0.0 5.5 15.0 0.0	6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.7 0.0	7 0.0 0.0 0.3 0.0 0.0 0.0 5.0 0.0	8 2.0 0.0 0.0 0.0 30.0 0.0 0.0 0.0 0.0	9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 48.0 0.0	10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	11 0.0 0.0 2.5 0.0 0.0 0.0 5.0 0.0 0.0 0.0	12 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	13 0.0 3.4 0.0 0.0 3.6 10.0 0.0 0.0 0.0 0.0	14 0.0 0.0 5.0 0.0 2.4 4.0 0.0 0.0 0.0	15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.0 7.0 0.0	16 1.8 0.0 0.0 0.0 0.0 0.0 2.0 30.0 0.0 0.0	17 0.0 0.0 0.0 0.0 0.0 0.0 0.0 46.5 0.0 0.0	18 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	21 0.0 0.0 0.0 0.0 0.0 0.0 3.0 7.0 0.0 0.0 0.0	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 8.0 0.0 4.5 0.0	25 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 0.0 20.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 6.5 0.0 0.0 0.0	Total 3.8 8.0 1.5 10.5 0.0 23.6 45.4 38.5 163.7 11.5 0.0
2012	Day nth Jan Feb Mar Apr Jun Jul Jul Aug Sep Oct Nov	1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	5 0.0 2.0 1.5 0.0 0.0 0.0 5.5 15.0 0.0 0.0 0.0	6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.7 0.0 0.0 0.0	7 0.0 0.0 0.3 0.0 0.0 0.0 5.0 0.0 0.0 0.0	8 2.0 0.0 0.0 0.0 30.0 30.0 0.0 0.0 0.0 0.0	9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 48.0 0.0 0.0	10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	11 0.0 0.0 2.5 0.0 0.0 5.0 0.0 0.0 0.0 0.0 0.0	12 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	13 0.0 3.4 0.0 0.0 3.6 10.0 0.0 0.0 0.0 0.0 0.0	14 0.0 0.0 5.0 0.0 2.4 4.0 0.0 0.0 0.0 16.0	15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.0 7.0 0.0	16 1.8 0.0 0.0 0.0 0.0 0.0 2.0 30.0 0.0 0.0 0.0 0.0	17 0.0 0.0 0.0 0.0 0.0 0.0 46.5 0.0 0.0	18 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.5 0.0 0.0 0.0	19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	20 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	21 0.0 0.0 0.0 0.0 0.0 0.0 3.0 7.0 0.0 0.0 0.0 0.0	22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	24 0.0 0.0 0.0 0.0 0.0 0.0 8.0 0.0 4.5 0.0	25 0.0 0.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	26 0.0 0.0 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	27 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	29 0.0 0.0 0.0 20.0 0.0 0.0 0.0 0.0 0.0 0.	30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	31 0.0 0.0 0.0 0.0 0.0 6.5 0.0 0.0 0.0 0.0	Total 3.8 8.0 1.5 10.5 0.0 23.6 45.4 38.5 163.7 11.5 0.0 17.2

4) Wind (Daily Average Wind Speed, Unit: m/sec)

	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
۲r/	Day 1	0.6	0.0	1.0	15	1.6	10	2.4	11	24	0.0	0.7	0.7
	י 2	1.0	0.8	1.0	1.0 0.6	1.0	1.0	2.4	1.1 ∩ 0	2.4	0.8	0.7	0.7
	3	0.5	11	10	1.3	0.9	21	3.6	12	1.0	0.9	0.0	0.0
	4	0.3	1.2	1.2	0.2	1.3	2.8	3.5	2.4	1.5	1.1	0.4	0.7
	5	0.3	0.8	1.1	1.9	1.3	3.9	3.9	2.5	1.3	1.3	0.4	0.7
	6	0.3	0.8	0.5	1.5	1.2	2.8	4.0	1.9	0.8	0.6	0.8	0.8
	7	0.4	1.3	1.1	2.0	1.9	2.0	3.9	2.4	0.6	0.8	0.8	1.3
	8	0.7	1.3	1.4	1.5	1.5	3.3	1.9	1.7	2.0	0.7	1.5	0.8
	9	0.9	1.1	1.8	1.6	0.7	3.2	1.5	1.8	1.3	0.8	1.2	0.8
	10	1.0	1.1	1.4	1.0	0.8	3.8	4.2	1.4	1.5	0.8	1.3	1.6
	11	0.7	1.2	1.2	0.8	2.2	2.2	2.2	1.4	0.9	0.9	1.3	1.3
	12	1.3	1.6	1.3	0.8	2.2	5.1	2.3	1.9	1.1	1.0	2.0	0.5
	10	1.U 2.0	1.0	1.Z	1.1	0.0	3.0	3.1	2.1	1.0	1.0	1.0	0.0
	15	1.0	10	0.7	1.0	2.8	<del>7.2</del> 2.5	3.7	2.0	19	1.3 0.8	1.7	0.6
3	16	11	1.0	10	2.0	13	4.0	2.9	11	1.5	0.0	1.0	0.0
õ	17	0.8	1.4	1.1	0.4	0.8	7.5	2.6	0.6	1.7	0.6	0.7	0.5
	18	1.1	1.7	1.5	0.8	0.9	6.8	3.0	0.8	2.0	0.7	1.0	0.4
	19	0.7	1.2	0.8	1.0	1.6	2.9	2.1	0.6	1.7	0.6	0.7	0.5
	20	0.6	1.5	0.7	1.0	0.3	1.8	3.3	0.9	0.9	1.6	1.4	0.5
	21	0.6	1.3	0.8	1.0	1.4	0.8	4.2	1.2	0.9	2.5	1.3	0.6
	22	0.6	1.8	0.8	1.1	1.1	1.9	3.9	1.5	0.8	2.1	0.4	0.6
	23	1.4	1.0	0.9	1.5	1.4	3.7	4.2	1.4	0.8	2.4	0.9	0.6
	24	1.2	0.9	1.1	2.8	0.8	4.6	1.6	1.5	1.1	0.9	1.4	2.1
	20	1.4	1.0	1.2	3.1	1.2	5.4	2.4	2.1	1./	0.6	1.0	1.6
	20	1.1	1.1	0.5	2.0	2.3	<u> </u>	3.1	1.9	1.3	1.8	1.3	1.3
	28	1.0	1.5	0.0	1.9	3.1 2.2	3.9	2.1	1.0 0.0	1.1	0.0	0.5	1.1
	29	0.9	1.5	0.4	2.0	3.1	3.4	2.2	13	0.9	0.7	0.5	1.0
	30	0.8		0.8	2.8	1.2	2.0	2.0	2.1	0.7	1.1	1.0	0.5
	31	1.2		0.8		1.7		2.8	2.2		0.8		0.5
	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Month Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Month Day 1	Jan 1.0	Feb	Mar 1.8	Apr 0.7	May 1.9	Jun 1.5	Jul 1.3	Aug 2.0	Sep 0.7	Oct 0.6	Nov 0.7	Dec 0.6
Yr/	Month Day 1 2 3	Jan 1.0 0.8	Feb 1.2 1.0	Mar 1.8 2.5	Apr 0.7 1.4	May 1.9 2.1	Jun 1.5 0.7	Jul 1.3 1.0	Aug 2.0 0.6	Sep 0.7 1.4	Oct 0.6 0.6	Nov 0.7 0.9	Dec 0.6 0.9
Yr/	Month Day 1 2 3 4	Jan 1.0 0.8 1.2 1.4	Feb 1.2 1.0 1.0	Mar 1.8 2.5 2.4 2.2	Apr 0.7 1.4 1.5	May 1.9 2.1 2.8	Jun 1.5 0.7 0.8	Jul 1.3 1.0 1.4	Aug 2.0 0.6 1.5 2.0	Sep 0.7 1.4 1.6	Oct 0.6 0.6 1.0	Nov 0.7 0.9 0.8	Dec 0.6 0.9 0.6 0.6
Yr/	Month Day 1 2 3 4 5	Jan 1.0 0.8 1.2 1.4 1.3	Feb 1.2 1.0 1.0 0.6 1.2	Mar 1.8 2.5 2.4 2.2 1.9	Apr 0.7 1.4 1.5 1.9 1.4	May 1.9 2.1 2.8 1.8 1.1	Jun 1.5 0.7 0.8 1.3 0.8	Jul 1.3 1.0 1.4 1.2 2.0	Aug 2.0 0.6 1.5 2.0 1.0	Sep 0.7 1.4 1.6 1.3 0.9	Oct 0.6 0.6 1.0 0.9 0.9	Nov 0.7 0.9 0.8 0.7 1.6	Dec 0.6 0.9 0.6 0.6 0.8
Yr/	Month Day 1 2 3 4 5 6	Jan 1.0 0.8 1.2 1.4 1.3 1.0	Feb 1.2 1.0 1.0 0.6 1.2 1.0	Mar 1.8 2.5 2.4 2.2 1.9 1.5	Apr 0.7 1.4 1.5 1.9 1.4 1.2	May 1.9 2.1 2.8 1.8 1.1 0.8	Jun 1.5 0.7 0.8 1.3 0.8 0.7	Jul 1.3 1.0 1.4 1.2 2.0 3.5	Aug 2.0 0.6 1.5 2.0 1.0 0.9	Sep 0.7 1.4 1.6 1.3 0.9 1.7	Oct 0.6 0.6 1.0 0.9 0.9 1.0	Nov 0.7 0.9 0.8 0.7 1.6 1.2	Dec 0.6 0.9 0.6 0.6 0.8 1.0
Yr/	Month Day 1 2 3 4 5 6 7	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2	Feb 1.2 1.0 0.6 1.2 1.0 0.8	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8	Oct 0.6 1.0 0.9 0.9 1.0 1.3	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6	Dec 0.6 0.9 0.6 0.6 0.8 1.0 1.5
Yr/	Month Day 1 2 3 4 5 6 7 8	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7	Oct 0.6 1.0 0.9 0.9 1.0 1.3 0.4	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0
Yr/	Month Day 1 2 3 4 5 6 7 8 9	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0 1.4	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.6	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8	Oct 0.6 1.0 0.9 0.9 1.0 1.3 0.4 1.2	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3	Dec 0.6 0.9 0.6 0.6 0.8 1.0 1.5 1.0 1.0
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.2 1.0 1.1 1.4	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.6 2.0	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6	Oct 0.6 1.0 0.9 0.9 1.0 1.3 0.4 1.2 0.9	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0	Dec 0.6 0.9 0.6 0.6 0.8 1.0 1.5 1.0 1.0 1.7
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.1 1.4 1.3	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.6 2.0 1.5	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.0 1.7 1.4
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 11 12	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.3 1.4	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.4 1.0 0.6 1.2 1.0 0.8 1.0 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.0 0.8 1.0 1.0 0.8 1.0 1.0 0.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 1.3 1.2	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.6 2.0 1.5 0.7	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.6 0.8 0.7	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.0 1.7 1.4 0.5
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 11 12 13	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 2.2 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 2.2	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 2.0	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.9	Oct 0.6 0.9 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.6 0.5	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8
Yr/	Month Day 1 2 3 4 5 6 7 7 8 9 9 10 11 11 12 13 14	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 0.8 0.4	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.9 1.9	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.3 0.8 0.7 0.0 0.8 0.7 0.8 0.7 0.0 0.8 0.7 0.0 0.8 0.0 0.8 0.7 0.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.6	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2	Oct 0.6 0.9 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.8
93 Yr/	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 11 12 13 14 15 16	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 0.8 0.4 1.0	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.3 2.1	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.0 1.0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.0 1.5 1.0 1.2 1.3 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.9 1.8 1.7 1.9 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.2	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.8 0.8 0.6	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.2
2003 JL	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 0.8 0.4 1.0 0.8	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.3 1.2 2.1 1.8	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.1 0.4 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.5	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.0	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.9 1.8 1.7 1.9 1.8 1.7 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.0	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.2 0.9 0.8 0.8	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.7	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 1.2 1	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4
2003	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8	Feb 1.2 1.0 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2 2.1 1.8 1.6	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.2 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.0 1.9 1.4 1.9 1.0 1.9 1.4 1.9 1.0 1.9 1.4 1.9 1.0 1.9 1.4 1.9 1.0 1.9 1.0 1.9 1.4 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.3 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.9 1.8 1.7 1.9 1.8 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 2.6	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6 0.6 0.6 0.6	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.2 0.9 0.8 0.8 0.8	Oct 0.6 0.9 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.7 0.8	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 1.2 1 4	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9
2003 Xr	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 0.8 0.8 0.8 0.8 0.8	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 1.5 0.9 1.0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.2 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.9 1.2 1.9 1.4 1.2 0.6 1.9 1.2 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.9 1.4 1.2 0.6 1.9 1.9 1.4 1.2 0.6 1.9 1.9 1.4 1.2 0.6 1.9 1.9 1.9 1.9 1.2 0.6 1.9 1.9 1.9 1.9 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.9 1.0 1.0 1.9 1.0 1.3 2.8	May 1.9 2.1 2.8 1.3 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8 1.7 1.9 1.8 1.7 1.9 1.3 1.7 1.9 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 2.6 1.2	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.0 1.4	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6 0.6 0.6 1.3 2.0	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.9 0.2 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Oct 0.6 0.9 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8 0.6 0.7 0.8 1.0	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6
2003 Xr/	Month Day 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8 1.0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.5 1.0 0.6 1.9 1.4 1.9 1.0 1.2 0.6 1.9 1.0 1.2 0.6 1.9 1.0 1.2 1.3 1.2 0.6 1.9 1.0 1.2 1.3 1.2 0.6 1.9 1.0 1.2 1.3 1.2 0.6 1.9 1.0 1.2 1.3 1.2 0.6 1.9 1.0 1.2 1.0 1.2 1.3 1.2 0.6 1.9 1.0 1.3 2.8 2.0	May 1.9 2.1 2.8 1.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8 1.7 1.9 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 2.6 1.2 1.7	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.4 2.0 1.4 1.5 1.4 1.5 1.5 1.8 1.9 2.0 1.4 1.5 1.5 1.8 1.9 2.0 1.4 1.5 1.5 1.8 1.9 2.0 1.4 1.5 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.5 1.8 1.4 1.5 1.8 1.9 2.0 2.4 1.6 1.5 1.6 1.5 1.8 1.5 1.8 1.5 1.4 1.5 1.8 1.5 1.8 1.5 1.4 1.5 1.8 1.5 1.4 1.5 1.8 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.8 1.5 1.4 1.5 1.8 1.5 1.6 1.5 1.6 1.5 1.8 1.5 1.6 1.6 1.5 1.6 1.5 1.6 1.6 1.5 1.8 1.5 1.6 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.6 1.5 1.6 1.6 1.5 1.6 1.6 1.6 1.5 1.4 1.5 1.4 1.5 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6 0.6 1.3 2.0 1.4	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.2 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.9 0.7 0.9 0.9 0.9 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8 0.6 0.7 0.8 1.0 0.7 0.7 0.7	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
2003	Month Day 1 2 3 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 1.0 0.8	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.0	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.0 1.3 2.8 2.0 1.6 1.6 1.6 1.0 1.3 1.5 1.0 1.3 1.5 1.0 1.3 1.5 1.0 1.4 1.3 1.5 1.0 1.4 1.3 1.5 1.0 1.4 1.3 1.5 1.0 1.4 1.3 1.5 1.0 1.3 2.8 2.0 1.6 1.6 1.6 1.9 1.3 1.6 1.0 1.3 2.8 2.0 1.6 1.6 1.6 1.9 1.6 1.9 1.6 1.9 1.6 1.9 1.6 1.0 1.3 2.8 2.0 1.6 1.6 1.6 1.6 1.9 1.6 1.6 1.6 1.9 1.3 2.8 2.0 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	May 1.9 2.1 2.8 1.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8 1.7 1.8 1.7 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.7 1.8 1.7 1.8 1.7 1.8 1.7 1.8 1.7 1.9 1.8 1.0 1.1 1.1 1.1 1.0 1.0 1.1	Jun 1.5 0.7 0.8 1.3 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 1.0 2.6 1.2 1.7 1.5	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.0 1.4 1.6 1.5 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.5 1.8 1.9 1.0 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 0.4 1.6 1.6 1.6 0.4 1.6 1.6 1.6 0.4 1.5 1.8 1.6 0.4 1.6 1.6 0.4 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6 0.6 0.6 1.3 2.0 1.4 1.8	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.2 0.9 0.8 0.8 0.8 0.8 0.7 1.0	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.7 0.8 1.0 0.7 0.6	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.9
2003	Month Day 1 2 3 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.4 1.0 0.6 1.3 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.0 1.7	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.0 1.5 0.9 1.0 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.0 1.5 0.9 1.0 0.5 0.9 1.0 1.5 0.9 1.0 1.5 0.9 1.0 1.5 0.9 1.0 1.5 0.9 1.0 0.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.5 1.5 0.9 1.5 0.5 1.5 0.9 1.5 0.5 1.5 0.9 1.5 0.5 1.5 0.9 1.5 0.5 1.5 0.9 1.5 0.5 1.5 0.5 1.5 0.5 1.5 0.9 1.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.3 2.8 2.0 1.6 1.1 1.3 1.5 1.0 1.3 1.3 1.5 1.0 1.3 1.3 1.5 1.0 1.3 1.3 1.5 1.0 1.3 1.3 1.5 1.0 1.3 1.3 1.3 1.3 1.5 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.5 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	May 1.9 2.1 2.8 1.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8 1.7 1.8 1.7 1.9 1.8 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.0 1.4 1.6 0.4 2.4 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 2.4 1.6 0.4 1.6 0.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 1.4 1.6 0.4 1.5 1.6 0.4 2.4 2.0 1.4 1.5 1.6 0.4 2.0 1.4 1.6 0.4 2.0 1.4 1.6 1.5 1.8 1.6 0.4 2.0 1.4 1.6 1.5 1.8 1.6 1.5 1.8 1.6 1.5 1.8 1.6 1.6 1.5 1.8 1.6 1.5 1.8 1.6 1.5 1.8 1.6 1.5 1.8 1.6 1.5 1.8 1.6 1.5 1.8 1.8 1.6 1.5 1.8 1.8 1.8 1.6 1.5 1.8 1.8 1.8 1.6 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 2.0 1.5 0.7 1.0 0.6 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.2 0.9 0.8 0.8 0.8 0.8 0.6 0.7 1.0 0.9 0.9 0.9 0.2 0.9 0.9 0.9 0.2 0.9 0.9 0.9 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.6	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.9 1.4 0.9 0.6 0.9 1.0 0.0 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.9 0.6 0.8 0.8 0.8 0.8 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.0
2003 J. J.	Month Day 1 2 3 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.6 1.4 1.3 1.2 2.1 1.3 1.3 1.2 2.1 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.3 1.2 1.3 1.3 1.3 1.2 1.3 1.3 1.3 1.3 1.3 1.2 1.3 1.3 1.3 1.3 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.0 1.5 0.9 1.0 1.5 1.0 1.5 1.0 1.1 0.4 0.7 1.5 0.9 1.5 1.0 1.1 0.4 0.7 1.5 0.9 1.5 0.4 0.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.4 0.7 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.0 0.15 0.9 1.0 0.15 0.9 1.0 0.15 0.9 1.0 0.15 0.9 1.0 0.15 0.9 1.0 0.15 0.9 1.0 0.15 0.9 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 0.9 1.2 1.0 0.15 1.2 1.2 1.0 0.15 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.2 0.6 1.3 1.5 1.0 1.2 0.6 1.3 2.8 2.0 1.6 1.1 1.3 1.3 1.3 1.5 1.0 1.3 1.3 1.3 1.5 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	May 1.9 2.1 2.8 1.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8 1.7 1.8 1.7 1.9 1.8 1.0 1.0 1.0 1.0 2.8 1.1 1.1 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.7 1.8 1.7 1.9 1.8 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4 1.1	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.0 1.4 1.6 0.4 2.4 2.0 1.4 1.5 1.8 0.7	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 2.0 1.5 0.7 1.0 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9 0.6	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.6 0.8	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.9 1.4 0.9 0.6 0.9 1.0 1.5 0.8 1.0 0.6 0.8 0.8 0.8 0.8 0.9 0.6 0.8 0.8 0.8 0.8 0.9 0.6 0.8 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.0
2003 X X	Month Day 1 2 3 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.2 1.0 1.1 1.4 1.3 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.6 1.4 1.0 0.8 1.2 0.8 1.0 0.8 1.2 0.8 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.0 0.8 1.3 1.3 1.2 0.8 1.3 1.3 1.2 0.8 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.0 1.5 0.9 1.0 1.5 1.0 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.4 0.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.4 0.7 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.0 0.1 0.1 0.1 0.1 0.1 0.4 0.7 1.5 0.9 1.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.0 1.3 0.6 1.9 1.4 1.0 1.3 0.6 1.3 0.6 1.9 1.4 1.0 1.3 0.6 1.3 0.8 2.0 1.6 1.1 0.0 1.3 0.8 2.0 0.6 1.1 0.0 1.3 0.8 2.0 0.6 1.1 0.0 1.3 0.8 2.0 0.6 1.1 0.0 1.3 0.8 2.0 0.6 1.1 0.0 1.3 2.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 2.0 0.6 1.1 1.3 0.8 1.0 1.0 1.0 1.3 0.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	May 1.9 2.1 2.8 1.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8 1.7 1.9 1.8 1.0 1.0 1.0 1.0 1.0 1.0 3.6 3.6   	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4 1.1 1.5	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.0 1.4 1.6 0.4 2.0 1.4 1.5 1.8 0.7 1.0 1.0 1.5 1.8 0.7 1.0 1.0 1.5 1.8 0.7 1.0 1.0 1.5 1.8 0.7 1.0 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9 0.6 0.7	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.7 0.8 1.0 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.6 0.8 0.9	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.0 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9
2003	Month Day 1 2 3 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 6 21	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.6 1.4 1.8 1.0 0.8 0.9 0.9 1.2 1.0 1.3 1.3 1.2 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 2.1 1.3 1.3 1.3 1.2 2.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.2 1.0 1.5 0.9 1.0 1.5 0.4 0.7 1.2 1.0 0.7 1.0 0.5 0.2 1.0 0.7 1.0 0.5 0.9 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.3 0.6 1.9 1.4 1.3 0.6 1.9 1.4 1.3 0.6 1.3 2.8 2.0 1.6 1.1 1.3 0.8 2.0 1.5 1.5 1.0 1.3 0.8 1.5 1.0 1.3 2.8 2.0 1.5 1.5 1.5 1.5 1.0 1.3 2.8 2.0 1.5 1.5 1.5 1.5 1.5 1.0 1.3 2.8 2.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	May 1.9 2.1 2.8 1.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.8 1.7 1.9 1.8 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4 1.1 1.5 1.0	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.0 1.4 1.6 0.4 2.0 1.4 1.6 0.4 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 1.4 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.0 1.4 1.6 0.4 2.1 1.6 1.5 1.4 1.6 0.4 2.0 1.4 1.6 1.5 1.4 1.6 1.5 1.4 1.6 1.5 1.4 1.6 1.5 1.4 1.6 1.5 1.4 1.6 1.6 1.5 1.4 1.6 1.6 1.6 1.7 1.4 1.6 1.6 1.7 1.4 1.6 1.7 1.4 1.6 1.4 1.6 1.4 1.6 1.7 1.4 1.6 1.7 1.4 1.6 1.7 1.4 1.6 1.7 1.4 1.6 1.7 1.4 1.6 1.7 1.4 1.6 1.7 1.4 1.7 1.8 1.7 1.6 1.7 1.8 1.7 1.8 1.7 1.8 1.6 1.7 1.4 1.1 1.6 1.8 0.7 1.0 1.4 1.7 1.6 1.8 0.7 1.0 1.4 1.1 1.6 1.8 0.7 1.0 1.4 1.0 1.0 1.4 1.1 1.6 1.8 0.7 1.0 1.4 1.0 1.0 1.4 1.1 1.6 1.8 0.7 1.0 1.4 1.0 1.0 1.4 1.0 1.0 1.4 1.1 1.0 1.0 1.4 1.0 1.0 1.4 1.0 1.0 1.0 1.4 1.0 1.0 1.0 1.4 1.0 1.0 1.0 1.0 1.0 1.0 1.4 1.0 1.0 1.0 1.4 1.0 1.0 1.4 1.0 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.0 1.4 1.4 1.0 1.0 1.4 1.4 1.0 1.0 1.4 1.4 1.0 1.4 1.4 1.5 1.0 1.4 1.4 1.0 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9 0.6 0.7 0.7	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.7 0.8 1.0 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.6 0.8 0.9 0.9 0.9	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.0 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.2 0.7 0.3 1.4 0.9 1.0 1.5 1.0 1.2 0.7 0.3 1.4 0.9 1.5 1.0 1.2 0.7 0.3 1.4 0.9 1.5 1.0 1.2 0.7 0.3 1.4 0.9 1.5 1.0 1.2 0.7 0.3 1.4 0.9 1.0 1.5 1.2 0.7 0.3 1.4 0.9 1.5 1.0 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.0 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.0 1.0 1.2 0.7 0.3 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.5 0.8 1.2 0.6 0.6 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
2003 Z	Month Day 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 20 21 22 23 24 25 26 26	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 0.8 0.4 1.0 0.8 0.4 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 1.4 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.6 1.4 1.8 1.0 0.6 1.7 1.3 0.8 0.9 0.9 0.7 1.2 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.0 1.3 1.3 1.2 2.1 1.8 1.0 1.7 1.3 1.3 1.2 2.1 1.8 1.0 1.7 1.3 1.3 1.2 2.1 1.8 1.0 1.7 1.3 1.3 1.2 2.1 1.3 1.3 1.2 2.1 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.5 1.0 0.7 1.5 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.1 0.4 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 0.7 1.0 0.7 1.0 0.7 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 0.7 1.0 0.7 0.7 1.0 0.7 1.0 0.7 0.7 1.0 0.7 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.7 0.0 0.0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.3 0.8 1.5 0.0 1.2 0.6 1.9 1.4 1.9 1.4 1.3 0.6 1.9 1.4 1.3 0.8 2.0 1.6 1.1 1.3 0.8 2.0 1.5 1.5 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.9 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4 1.1 1.5 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.2 1.5 1.4 1.9 1.0 1.0 1.0 1.2 1.5 2.4 1.1 1.5 1.5 1.4 1.5 1.5 2.4 1.1 1.5 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.4 1.6 0.4 2.4 2.0 1.4 1.6 0.4 2.1 1.6 0.4 2.0 1.4 1.5 1.8 0.7 1.0 1.4 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 1.0 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9 0.6 0.7 0.5 0.9	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.6 0.7 0.8 1.0 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.8 0.8 0.6 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.9 0.9 0.9 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.7 0.3 1.4 0.9 0.6 0.9 1.0 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 0.6 0.9 0.7 0.3 1.4 0.9 0.6 0.9 0.6 0.9 1.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 0.6 0.9 1.0 0.5 0.8 0.8 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.9 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
2003	Month Day 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 20 21 22 23 24 25 26 27 28	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.4 1.3 1.4 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 1.4 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.6 1.4 1.8 1.0 0.6 1.2 0.8 0.9 0.7 1.0 1.2 0.8 1.2 0.8 0.9 0.7 1.0 0.8 0.9 0.7 1.0 0.8 0.9 0.7 1.0 0.8 0.9 0.7 1.0 0.8 0.9 0.7 1.0 0.8 0.9 0.7 1.0 0.8 0.8 0.9 0.7 1.0 0.8 0.8 0.9 0.7 1.0 0.8 0.8 0.9 0.7 1.0 0.8 0.8 0.9 0.7 0.8 0.8 0.9 0.7 0.8 0.8 0.9 0.7 0.8 0.8 0.8 0.9 0.7 0.8 0.8 0.8 0.9 0.7 0.8 0.8 0.8 0.9 0.7 1.3 0.8 0.8 0.9 0.7 1.3 0.8 0.9 0.7 1.0 0.7 1.0 0.8 0.9 0.7 1.0 0.7 0.7 1.0 0.8 0.9 0.9 0.9 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.2 1.0 0.7 0.0 0.7 0.0 0.0	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.5 1.5 1.0 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.3 0.6 1.9 1.4 1.3 0.8 2.0 1.6 1.1 1.3 0.8 2.0 1.5 2.2 1.5 2.2 1.5 2.2 1.5 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.9 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4 1.1 1.5 1.0 1.3 1.9 2.4	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.4 1.6 0.4 2.4 2.0 1.4 1.6 0.4 2.0 1.4 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.0 1.4 0.6 0.4 2.0 0.4 2.0 0.4 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.0 1.4 0.6 0.4 2.4 1.6 0.4 2.0 0.4 0.4 0.6 0.4 2.4 1.6 0.4 2.0 0.4 0.6 0.4 2.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 1.0 0.6 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9 0.6 0.7 0.5 0.9 0.9	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.1 1.1 1.5 2.66 2.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 0.6 1.0 0.9 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.8 0.8 0.8 0.6 0.7 0.8 1.0 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.8 0.8 0.6 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.6 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.6 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.7 0.3 1.4 0.9 0.6 0.9 1.0 1.7 0.3 1.4 0.9 0.6 0.9 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.0 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 0.3 1.4 0.9 0.6 0.9 1.0 0.8 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0
2003	Month Day 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 20 21 22 23 24 25 26 27 28 29	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.3 1.4 1.4 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 1.4 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.6 1.4 1.8 1.0 0.6 1.7 1.3 0.8 0.9 0.7 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.3 1.3 1.3 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.0 1.3 1.3 1.2 2.1 1.8 1.0 1.7 1.3 1.3 1.2 2.1 1.8 1.0 1.7 1.3 1.0 1.3 1.2 2.1 1.8 1.0 1.7 1.3 0.8 0.9 0.7 1.0 1.3 1.2 2.1 1.3 1.2 1.3 1.0 1.3 1.2 2.1 1.3 1.0 1.3 1.2 2.1 1.3 1.0 1.3 1.2 1.3 1.0 1.3 1.2 2.1 1.3 1.0 1.3 1.0 1.3 1.2 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.1 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.1 1.3 0.8 0.9 0.7 1.0 1.0 1.0 1.1 1.3 0.8 0.9 0.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.0 1.5 0.9 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.0 0.7 1.5 1.0 0.7 1.0 1.5 1.0 0.4 0.7 1.2 1.0 0.7 1.5 1.0 0.7 1.5 1.0 0.4 0.7 1.5 1.0 0.7 1.5 1.0 0.4 0.7 1.5 1.0 0.4 0.7 1.5 1.0 0.4 0.7 1.5 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.5 1.0 0.7 1.5 1.0 0.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.5 1.0 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.0 1.3 2.8 2.0 1.6 1.1 1.3 0.8 1.5 1.5 1.0 1.5 1.0 1.2 1.3 1.5 1.0 1.3 2.8 2.0 1.5 1.5 1.5 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.8 1.7 1.9 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4 1.1 1.5 1.0 1.3 1.9 2.4 1.1 1.9 2.2 1.5 2.4 1.1 1.9 2.2 1.5 2.4 1.1 1.9 2.2 1.5 2.4 1.1 1.9 2.2 1.5 2.4 1.1 1.9 2.2 1.5 2.4 1.1 1.9 2.2 1.5 2.4 1.1 1.9 1.5 2.4 1.1 1.9 1.5 2.4 1.1 1.9 1.2 1.5 1.2 1.5 1.2 1.5 1.5 2.4 1.1 1.5 1.5 2.4 1.1 1.5 1.2 1.5 2.4 1.1 1.5 1.2 1.5 2.4 1.1 1.5 1.2 1.2 1.5 2.4 1.1 1.5 1.2 1.2 1.5 2.4 1.1 1.5 1.2 1.2 1.5 2.4 1.1 1.5 1.2 1.2 1.5 2.4 1.2 1.5 1.2 1.5 1.2 1.5 2.4 1.1 1.5 1.2 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 2.4 1.1 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.5 1.5 1.5 1.2 1.5 1.5 1.5 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.4 2.0 2.4 1.6 0.4 2.4 2.0 1.4 1.6 0.4 2.0 1.4 0.6 0.4 2.0 1.4 0.6 0.4 2.0 1.4 0.6 0.4 2.0 1.5 1.5 1.8 0.7 1.0 1.4 0.6 0.4 2.0 0.4 2.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 1.0 0.6 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9 0.6 0.7 0.5 0.9 0.9 1.3 2.0	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.1 1.1 1.5 2.66 2.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 0.6 1.0 0.9 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.6 0.7 0.8 0.6 0.7 0.8 1.0 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.9 0.6 0.8 0.7 1.6 0.6 0.6 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.7 0.3 1.4 0.9 0.6 0.9 1.0 1.7 0.3 1.4 0.9 0.6 0.9 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.9 1.0 1.0 1.7 0.3 1.4 0.8 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.9 1.0 1.0 1.0 1.7 0.3 1.4 0.8 0.8 1.2 0.7 0.3 1.4 0.6 0.6 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.7 0.3 1.4 0.8 0.6 0.6 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
2003	Month Day 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 25 26 27 28 29 30	Jan 1.0 0.8 1.2 1.4 1.3 1.0 1.2 1.0 1.1 1.4 1.4 1.3 1.4 1.4 1.4 0.8 0.4 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Feb 1.2 1.0 0.6 1.2 1.0 0.8 1.0 1.4 1.0 0.6 1.0 1.3 1.3 1.2 2.1 1.8 1.6 1.4 1.8 1.0 1.7 1.3 0.8 0.9 0.7 1.0 1.2	Mar 1.8 2.5 2.4 2.2 1.9 1.5 1.0 1.7 1.3 1.9 2.1 1.1 0.4 0.7 1.2 1.0 1.5 0.9 1.0 0.7 1.2 1.0 0.7 1.2 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 1.5 0.9 1.0 0.7 0.8 1.2 1.0 0.7 1.0 0.7 1.2 1.0 0.7 0.8 1.2 1.0 0.7 1.2 1.2 1.0 0.7 1.2 1.2 1.2 1.0 0.7 1.2 1.2 1.0 0.7 1.2 1.2 1.1 0.8 1.2 1.2 1.1 1.1 0.1 1.2 1.2 1.2 1.1 0.8 1.2 1.2 1.2 1.2 1.1 1.2 1.1 1.2 1.2	Apr 0.7 1.4 1.5 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.2 1.3 1.5 1.0 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.2 1.3 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.4 1.2 0.6 1.9 1.4 1.9 1.0 1.3 2.8 2.0 1.6 1.1 1.3 0.8 1.5 2.2 1.5 2.0 1.5 1.5 1.5 1.0 1.1 1.3 0.8 1.5 2.2 1.5 2.0 1.1 1.5 1.5 1.1 1.3 0.8 1.5 2.2 1.5 2.0 1.1 1.5 1.5 1.1 1.3 0.8 1.5 2.2 1.5 2.0 1.1 1.5 1.5 1.5 1.0 1.1 1.3 0.8 1.5 2.2 1.5 2.0 1.1 1.3 0.8 1.5 2.2 1.5 2.0 1.1 1.3 0.8 1.5 2.2 1.5 2.0 1.1 1.5 2.0 1.5 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.5 2.0 1.1 1.1 1.1 1.1 1.1 1.1 1.5 1.1 1.1	May 1.9 2.1 2.8 1.8 1.1 0.8 1.2 1.3 0.9 1.3 1.7 1.9 1.8 1.7 1.9 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Jun 1.5 0.7 0.8 1.3 0.8 0.7 1.4 1.9 3.7 2.0 1.2 1.6 1.4 0.8 1.0 1.0 1.0 1.0 2.6 1.2 1.7 1.5 2.4 1.1 1.5 1.0 1.3 1.9 2.4 2.0	Jul 1.3 1.0 1.4 1.2 2.0 3.5 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.0 2.4 1.6 0.4 2.0 1.4 1.6 0.4 2.0 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.0 1.4 0.6 1.5 1.8 1.9 2.0 2.4 1.6 0.4 2.0 1.4 0.6 0.4 2.0 1.4 0.6 0.4 2.0 0.4 2.0 0.4 0.4 0.6 0.4 2.0 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0	Aug 2.0 0.6 1.5 2.0 1.0 0.9 0.7 0.7 0.7 0.7 0.6 2.0 1.5 0.7 1.0 1.0 0.6 0.6 0.6 1.3 2.0 1.4 1.8 0.9 0.6 0.7 0.7 0.5 0.9 0.9 0.9 0.9	Sep 0.7 1.4 1.6 1.3 0.9 1.7 0.8 0.7 0.8 0.6 0.8 0.7 0.9 0.2 0.9 0.1 1.1 1.5 2.66 2.5 1.0 0.7 1.0 0.9 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Oct 0.6 1.0 0.9 1.0 1.3 0.4 1.2 0.9 0.6 0.6 0.6 0.6 0.6 0.8 0.8 0.6 0.7 0.8 1.0 0.7 0.8 1.0 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Nov 0.7 0.9 0.8 0.7 1.6 1.2 0.6 0.6 1.3 2.0 1.6 0.6 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.9 0.9 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 1.1 2.1 1.4 1.5 0.9 0.9 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 0.6 0.9 0.6 0.8 1.0 1.5 1.0 1.7 1.4 0.5 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.6 0.9 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.8 1.2 0.7 0.3 1.4 0.9 0.6 0.9 1.0 1.0 1.0 1.7 0.3 1.4 0.9 0.6 0.6 0.9 1.0 1.0 1.0 1.7 0.3 1.4 0.9 0.6 0.6 0.9 1.0 1.0 1.0 1.0 1.7 0.3 1.4 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8

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	Month	la se	<b>F</b> - <b>b</b>	Mau	A	M	l	11	A	<b>C</b>	0.1	Neur	D
Yr/	Dav	Jan	гер	war	Apr	way	Jun	Jui	Aug	Sep	Uct	INOV	Dec
	1		0.0	1.0	1.0	4.5	4.4	1.5	1.0	1.0	0.0	0.0	1.0
		<u> </u>	0.8	1.0	1.0	1.5	1.1	1.5	1.9	1.2	0.8	0.8	1.0
	2	1.0	1.6	1.2	1.2	1.5	2.9	1.5	1.2	1.2	1.1	1.1	1.2
	3	10	21	11	12	0.8	15	11	14	12	0.8	10	0.6
	4		4 7	1.1	1.2	4.0	1.0	1.1	1.1	1.2	0.0		0.0
	4	0.0	1./	1.0	0.9	1.0	1.1	1.0	0.9	1.3	0.8	0.8	0.0
	5	0.7	0.9	2.0	0.9	1.0	1.0	2.0	0.8	1.0	1.0	0.5	1.5
	6	06	13	10	04	0.6	19	16	12	12	0.6	0.6	15
	7	0.0	1.0	1.0	<u> </u>	0.0	1.0	1.0	1.2	1.2	0.0	0.0	1.0
	/	0.6	1.8	2.0	1.3	0.7	2.2	1.0	1./	1.3	0.6	0.6	1.0
	8	1.0	0.9	1.3	1.6	1.9	1.3	0.9	2.0	0.9	1.1	0.6	0.7
	Q	1 8	20	1 8	1 2	10	15	10	1 8	1 0	22	01	07
		1.0	2.0	1.0	1.2	1.3	1.5	1.3	1.0	1.0	2.2	0.7	0.7
	10	1.6	1./	1.6	1.4	1.8	0.9	1.5	0.9	0.9	2.4	0.6	1.5
	11	0.6	1.6	1.0	0.8	1.9	1.5	1.3	1.3	0.8	1.9	0.7	0.6
	12	1 0	1 /	<u>^ 0</u>	<u> </u>	07	07	21	1 2	10	17	00	90
	12	1.0	1.4	0.0	0.0	0.7	0.7	<u> </u>	1.2	1.0		0.0	0.0
	13	1.4	1.3	1.0	1.1	1.0	1.4	2.0	0.5	1.0	0.8	0./	0.4
	14	0.8	0.7	1.0	1.0	1.5	1.9	2.1	0.9	1.2	1.1	0.5	1.5
	15	<u>∩ o</u>	16	<u>^ 0</u>	9 0	15	20	16	1 2	15	10	1 2	1 /
2	10	0.0	1.0	0.0	0.0	1.0	2.0	1.0	1.3	1.0	1.0	<u> .</u>	1.4
ŏ	16	0.8	1.5	0.9	0.6	1.5	1.4	2.5	1.0	2.6	0.5	0.7	1.4
$\sim$	17	1.9	1.1	0.6	1.4	1.4	2.6	1.7	1.9	1.2	0.8	0.5	1.0
	10	1 0	1.0	0.0	1 4	1 0	0.0	1.0	0.0	0.0	0.7	0.0	0.0
	10	1.0	1.0	0.8	1.4	1.3	2.9	1.0	2.0	0.0	0.7	0.3	0.0
	19	1.3	1.0	1.0	0.7	1.4	2.8	1.6	0.9	0.6	1.3	0.5	1.2
	20	06	07	10	15	13	20	22	11	06	13	07	20
	01	0.0	1.0	1.0	1.0	1.0	0.0	0.1		1.0	1.0	0.7	0.0
1	21	U.8	1.0	1.0	1.4	1.0	<u> </u>	<u>Z.I</u>	1.1	1.9	1.0	0.8	U.8
1	22	0.8	1.3	1.3	1.8	0.9	1.9	0.8	1.0	1.6	1.1	0.6	0.8
1	23	10	18	15	19	24	17	10	15	0.6	10	0.6	07
1		1.0	U 	1.0	1.0	<u></u> -	 	1.0	0	0.0	 ^ 7		0.7
	24	1.0	1.5	1.5	1.3	2.5	1.5	0.8	0.7	0.6	0.7	0.8	0.6
	25	1.2	1.1	1.0	1.5	1.1	1.2	1.1	1.0	0.6	0.5	0.7	0.7
	26	1 0	09	07	21	18	12	13	10	05	09	07	10
	07	1.0	0.0	0.7	<u> </u>	1.0	1.4	1.0	1.0	0.0	0.5	0.7	1.0
	21	1.0	2.0	0.7	1.6	2.5	1.1	1.6	1.0	0.9	1.0	0.8	2.2
	28	1.1	0.9	0.6	1.9	1.1	1.2	1.8	1.3	0.8	0.7	0.8	0.7
	29	14	12	0.8	07	10	10	13	0.6	14	20	11	07
	20	1.1	1.2	0.0	0.7	1.0	1.0	1.0	0.0	1.1	2.0	1.1	0.7
	30	1.0		0.7	2.2	1.2	0.8	2.3	0.8	1.5	0.7	1.3	0.4
	31	1.0		0.7		1.1		2.4	1.3		0.8		1.3
	Maria									-			
$\sim$			< l l l l l l l l l l l l l l l l l l l			}							
	viontn	Jan	Feb	Mar	Apr	Mav	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Viontn Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Day 1	Jan 2.8	Feb	Mar 0.9	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Day 1	Jan 2.8	Feb 0.8	Mar 0.9	Apr 1.0	May 1.9	Jun 1.2	Jul 1.9	Aug 0.8	Sep	Oct 0.7	Nov 1.3	Dec 1.3
Yr/	Day	Jan 2.8 0.6	Feb 0.8 0.5	Mar 0.9 0.8	Apr 1.0 1.0	May 1.9 1.0	Jun 1.2 0.8	Jul 1.9 1.5	Aug 0.8 1.2	Sep 1.2 1.3	Oct 0.7 0.8	Nov 1.3 1.2	Dec 1.3 1.1
Yr/	Day 1 2 3	Jan 2.8 0.6 0.6	Feb 0.8 0.5 1.0	Mar 0.9 0.8 1.0	Apr 1.0 1.0 0.6	May 1.9 1.0 1.2	Jun 1.2 0.8 0.8	Jul 1.9 1.5 1.5	Aug 0.8 1.2 1.1	Sep 1.2 1.3 1.0	Oct 0.7 0.8 1.3	Nov 1.3 1.2 1.2	Dec 1.3 1.1 0.6
Yr/	Day Day 2 3 4	Jan 2.8 0.6 0.6	Feb 0.8 0.5 1.0	Mar 0.9 0.8 1.0	Apr 1.0 1.0 0.6 1.0	May 1.9 1.0 1.2 1.5	Jun 1.2 0.8 0.8	Jul 1.9 1.5 1.5 1 4	Aug 0.8 1.2 1.1	Sep 1.2 1.3 1.0 1.0	Oct 0.7 0.8 1.3 1.6	Nov 1.3 1.2 1.2 0.8	Dec 1.3 1.1 0.6 0.8
Yr/	Day 1 2 3 4	Jan 2.8 0.6 0.6 0.6	Feb 0.8 0.5 1.0 0.6	Mar 0.9 0.8 1.0 1.6	Apr 1.0 1.0 0.6 1.0	May 1.9 1.0 1.2 1.5	Jun 1.2 0.8 0.8 0.8	Jul 1.9 1.5 1.5 1.4	Aug 0.8 1.2 1.1 1.6	Sep 1.2 1.3 1.0 1.0	Oct 0.7 0.8 1.3 1.6	Nov 1.3 1.2 1.2 0.8	Dec 1.3 1.1 0.6 0.8
Yr/	Day Day 1 2 3 4 5	Jan 2.8 0.6 0.6 0.6 0.9	Feb 0.8 0.5 1.0 0.6 1.5	Mar 0.9 0.8 1.0 1.6 1.0	Apr 1.0 1.0 0.6 1.0 1.7	May 1.9 1.0 1.2 1.5 0.9	Jun 1.2 0.8 0.8 0.8 0.7	Jul 1.9 1.5 1.5 1.4 1.3	Aug 0.8 1.2 1.1 1.6 1.4	Sep 1.2 1.3 1.0 1.0 1.5	Oct 0.7 0.8 1.3 1.6 1.0	Nov 1.3 1.2 1.2 0.8 0.5	Dec 1.3 1.1 0.6 0.8 0.9
<u>Yr/</u>	Day 1 2 3 4 5 6	Jan 2.8 0.6 0.6 0.9 1.3	Feb 0.8 0.5 1.0 0.6 1.5 0.6	Mar 0.9 0.8 1.0 1.6 1.0 1.1	Apr 1.0 1.0 0.6 1.0 1.7 2.4	May 1.9 1.0 1.2 1.5 0.9 1.0	Jun 1.2 0.8 0.8 0.8 0.7 2.9	Jul 1.9 1.5 1.5 1.4 1.3 0.9	Aug 0.8 1.2 1.1 1.6 1.4 2.1	Sep 1.2 1.3 1.0 1.0 1.5 1.9	Oct 0.7 0.8 1.3 1.6 1.0 0.9	Nov 1.3 1.2 1.2 0.8 0.5 0.3	Dec 1.3 1.1 0.6 0.8 0.9 1.0
Yr/	Day 1 2 3 4 5 6 7	Jan 2.8 0.6 0.6 0.9 1.3 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1	Jun 1.2 0.8 0.8 0.8 0.7 2.9 2.6	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1 1	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5
Yr/	Day 1 2 3 4 5 6 7	Jan 2.8 0.6 0.6 0.9 1.3 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.2	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.2	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8 2.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.2	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5
Yr/	Day 1 2 3 4 5 6 7 8	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8 2.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.8	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5
Yr/	Month Day 1 2 3 4 5 6 7 8 9	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8	Jun 1.2 0.8 0.8 0.8 0.7 2.9 2.6 1.8 1.7	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8 2.0 1.5	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.8 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8 2.0 1.5 1.9	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.8 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.6
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.2	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.5 1.9	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.9	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.8 0.5 0.5 0.5 1.0	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.6 0.2
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.9	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0 0.6	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.0 1.5 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 0.5 1.0	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.6 0.8 0.8 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.6 0.8 0.9 0.5 0.5 0.6 0.8 0.5 0.5 0.5 0.6 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Yr/	Month (Day 1 2 3 4 5 6 7 8 9 10 11 12	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.8	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0 0.6 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.8 0.5 0.5 1.0 0.9	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.6 0.8 0.5
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.8 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0 0.6 1.0 0.8	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3 1.0	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.8 2.0 1.5 1.9 1.5 1.9 1.8 2.0 1.5 1.9 1.8 1.9 1.5 1.9 1.8 1.9 1.5 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.8 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.8 0.5 0.5 1.0 0.9 0.9	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.6 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
Yr/	Month         Day         1           1         2         3           4         5         6           7         8         9           10         11         12           13         14         14	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.0 1.4 0.8 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0 0.6 1.0 0.6 0.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.1 1.3 2.0	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.2	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2	Sep 1.2 1.3 1.0 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.3 1.3 2.1	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.6 1.9 0.6	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.6 0.8 0.5 0.5 1.2
Yr/	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.8	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.4 0.8 1.0 0.6	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3 1.0 1.2	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.1	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 1.0 0.9 0.9 1.0 0.9	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.6 0.8 0.5 0.5 1.3
Yr/ 9	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.9 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.4 0.8 1.0 0.6 0.8	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.8 0.5 0.5 1.0 0.9 0.9 1.0 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.6 0.8 0.5 0.5 1.3 1.0
005 JL	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.0 1.0 0.6 0.8 1.3	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0 0.6 1.0 0.8 0.9 0.6 0.6	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.3 1.0 1.2 1.5 2.1	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.6 0.7 1.9	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7
2005	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.9 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.8 1.0 0.6 0.6 1.0 1.0 0.6 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 0.8 1.0 0.9 0.6 1.0 0.0 1.0 0.9 0.6 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.2 1.5 1.5 0.9 1.0 1.2 1.5 0.9 1.0 1.2 1.5 0.9 1.0 1.2 1.5 0.9 1.0 1.2 1.5 0.9 1.0 1.1 1.2 1.5 0.9 1.0 1.1 1.2 1.5 0.9 1.0 1.1 1.2 1.5 0.9 1.0 1.1 1.2 1.5 0.9 1.0 1.1 1.1 1.3 0.9 1.1 1.1 1.3 0.9 1.1 1.1 1.3 1.0 1.1 1.1 1.2 1.5 0.9 1.1 1.1 1.1 1.2 1.1 1.1 1.2 1.1 1.1	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 2.3 1.4 1.2 2.3 1.4 1.2 2.3 1.4 1.2 1.5 1.2 1.2 1.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.9 1.0 1.3 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.0 1.5 1.9 1.0 1.0 1.5 1.9 1.0 1.0 1.0 1.0 1.5 1.9 1.0 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.6 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.2 1.9 0.4 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 0.8 0.5 0.5 1.2 0.8 0.5 0.5 0.5 1.2 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.7 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 X /	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           12	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.8 0.9 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 0.6 1.0 0.8 0.9 0.6 0.6 1.0 0.8 0.9 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 2.5 1.0 2.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.9 2.0 1.2 2.0 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 2.1	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.2 1.2 1.2 1.5 1.9 1.8 2.1 2.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.2 0.8 0.5 0.5 1.0 0.9 1.0 0.5 1.0 0.9 1.0 0.5 1.2 1.2 0.8 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.7 1.0
2005 J.J. /	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 9.9	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.0 0.6 0.8 1.3 1.0 0.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.0 0.6 1.5 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 0.6 0.6 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 0.8 0.9 0.6 0.6 1.0 2.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2 1.0	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.0 1.5 1.9 1.0 1.0 1.5 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.6	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.6 0.8 0.5 0.5 1.3 1.0 0.7 1.0 0.5
2005 J. J.	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 0.9 0.9 1.0 1.0 0.9 0.7	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.6 0.8 1.3 1.0 1.5 1.4	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 0.6 1.0 0.6 0.6 1.0 2.0 1.9	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5	Jun 1.2 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 1.0 1.5 1.0	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.2 1.2 1.3 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.0 1.5 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.8 1.0 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.6 0.8	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.5 1.0 0.5 1.0
2005 X-1	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.8 0.9 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 0.9 0.9 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.0 0.6 1.5 0.6 1.0 0.6 1.5 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 0.6 0.6 0.6 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 0.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.9	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.2 1.6 1.2 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 0 0 0 0 0 0 0 0 0 0 0 0 0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.7 0.9 0.6 0.9 0.6 0.9 0.9 0.6 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.7 0.9 0.6 0.7 0.6 0.7 0.6 0.7 0.9 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.9 0.6 0.7 0.6 0.7 0.0 0.6 0.6 0.7 0.6 0.6 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.3 0.5 0.5 0.5 1.0 0.9 0.9 0.5 0.3 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.7 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 July 1	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           200           21	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 0.9 0.7 1.0 1.0 0.9 0.7 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.5 1.4 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 0.6 1.0 2.0 1.9 1.0 1.1 0.9 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 2.5 1.2 1.0 0.9 0.8 2.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5 2.4 4	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.0	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.5 1.5 1.0	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 2.4 1.0 0.8 2.4 1.0 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 5.7 1.9 0.4 0.5 0.7 1.9 0.4 0.5 0.7 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.5 1.0 0.9 0.9 1.0 0.5 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 July 1	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.8 0.8 0.8 0.9 1.0 1.0 1.0 0.9 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 1.5 1.4 0.6 1.5 1.0 0.6 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 0.6 1.0 2.0 1.9 1.0 1.2	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5 2.4 1.2	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.7	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 0.7 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.5	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.5 1.0 0.5 0.5 1.3 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 July 1	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.8 0.8 0.8 0.9 1.0 1.0 1.0 0.9 0.9 0.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.6 0.8 1.3 1.0 1.5 1.4 0.6 1.3 1.0 1.5 1.4 0.6 1.3 1.0 1.5 1.4 0.6 1.5 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.0 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 1.0 1.1 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.5 1.5 1.2 1.0 0.6 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.0	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5 2.4 1.2 1.3	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.4 1.0 1.9 2.0 1.1 2.3 1.4 1.0 1.5 1.5 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.5 1.5 1.5 1.7 1.0	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.3 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.0 1.3 1.8 2.1 2.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.8 2.1 2.6 1.8 2.4 1.0 0.8 0.0 0.8 0.9 1.3 1.8 2.1 1.8 2.4 1.0 0.8 0.9 1.3 1.3 1.3 1.3 1.8 1.8 1.9 1.2 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.6 1.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.5 0.7 0.7 0.9 0.9 0.6 0.9 0.9 0.9 0.6 0.9 0.9 0.9 0.6 0.9 0.9 0.9 0.9 0.9 0.6 0.9 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.6 0.9 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.7 0.9 0.6 0.7 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.7 0.9 0.6 0.7 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.7 0.9 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 July 1	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.8 0.8 0.9 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 1.5 1.4 0.6 1.5 1.4 0.6 1.5 1.4 0.6 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.0 1.5 1.0 1.0 1.0 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5 2.4 1.2 1.2 1.3 1.0 0.9 1.1 1.1 1.2 1.5 0.9 1.0 1.1 1.2 1.5 0.9 1.0 1.1 1.2 1.5 0.9 1.0 1.1 1.1 1.3 2.0 0.8 1.4 1.3 1.5 1.5 1.1 1.1 1.1 1.1 1.1 1.2 1.5 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.8 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.5 1.5 1.7 1.5 1.5 1.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.5 1.7 1.0 0.6	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.2 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 2.4 1.0 1.2 1.8 2.4 1.0 1.2 1.8 2.4 1.0 1.2 1.8 2.4 1.0 1.8 2.4 1.0 0.8 0.9 1.2 1.8 2.4 1.0 0.8 0.9 1.2 1.8 2.4 1.0 0.8 0.9 1.2 1.8 2.4 1.0 0.8 0.9 1.2 1.8 1.9 1.2 1.8 1.9 1.9 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.8 1.9 1.9 1.9 1.2 1.8 1.9 1.9 1.2 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 0.4 0.6 0.7 0.9 0.4 0.6 0.7 0.9 0.6 1.0 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.8 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.8 0.7 0.8 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.8 0.7 0.8 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.6 0.6 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.6 0.6 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.6 0.6 0.7 0.8 0.0 0.6 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.5 1.0 0.9 0.9 1.0 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.5 1.3 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA /	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 23	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.5 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 1.0 0.6 0.6 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9 0.6 0.6 1.0 0.8 0.9 0.6 1.0 1.0 0.8 0.9 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.8 1.7	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.7 1.0 0.6	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.5 0.7 0.8 1.0 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.8 0.9 0.6 0.7 0.8 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.8 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.7 0.8 0.7 0.8 0.7 0.8 0.5 0.7 0.6 0.7 0.7 0.8 0.5 0.7 0.5 0.5 0.7 0.7 0.8 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.4 	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.5 1.3 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.8 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.0 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 0.6 0.6 0.6 0.6 1.0 2.0 1.9 1.0 1.2 2.2 1.1 0.7	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.4 1.3	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9 1.4	Jun 1.2 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.4 1.0 1.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.5 1.5 1.4 1.7 1.5 1.5 1.5 1.4 1.7 1.5 1.5 1.4 1.7 1.5 1.5 1.5 1.4 1.7 1.5 1.5 1.5 1.4 1.7 1.5 1.2 2.3 1.4 1.0 1.7 1.5 1.2 2.0 1.1 1.5 1.2 2.0 1.1 1.5 1.2 2.0 1.1 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.2 1.5 1.4 1.5 1.5 1.2 1.5 1.5 1.5 1.5 1.6 1.5 1.5 1.5 1.5 1.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.5 1.5 1.5 1.7 1.0 0.6 1.3	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.6 1.9 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 0.8 1.0 0.9 0.6 0.7 0.9 0.9 0.6 0.7 0.9 0.9 0.6 0.9 0.9 0.9 0.6 0.9 0.9 0.9 0.9 0.6 0.9 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.6 0.9 0.6 0.7 1.9 0.6 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.8 0.7 0.8 0.0 0.8 0.0 0.6 0.7 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.8 0.0 0.0	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.5 0.3 0.5 0.4 0.6	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month Day 1 2 3 4 5 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.6 0.8 1.3 1.0 0.6 0.6 1.0 1.4 0.6 0.6 1.5 1.4 0.6 1.5 1.0 0.6 1.5 1.0 0.6 1.5 1.0 1.0 1.5 1.0 1.0 1.5 1.0 1.0 1.0 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 1.0 1.1 0.9 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 0.9 0.8 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.5 2.3 1.8 1.4 1.1 1.2 1.5 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 0.6 0.0 0.6 0.0 0.6 0.0 0.0 0	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9 1.4 0.9	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1 1.5	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.5 1.4 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 0 0.8 0.9 1.3 1.9 1.7 1.0 0.5 1.9 1.1 0 1.5 1.9 1.0 1.5 1.9 1.5 1.9 1.0 1.5 1.9 1.5 1.9 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 1.2 1.8 2.1 1.0 1.2 1.8 2.1 1.2 1.8 2.1 1.9 1.2 1.8 2.1 1.2 1.8 2.1 1.0 1.2 1.8 2.1 1.2 1.8 2.1 1.0 1.3 1.8 2.1 1.0 1.7 1.0 1.2 1.1 1.8 2.1 1.2 1.1 1.8 2.1 1.0 1.2 1.1 1.8 2.1 1.0 1.2 1.1 1.8 2.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.9 0.9 0.9 0.6 0.9 0.9 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.9 0.6 0.7 0.8 0.0 0.6 0.7 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.5 0.5 1.0 0.9 0.9 1.0 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.5 0.3 0.5 0.5 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24           25           26	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.9 0.8 0.8 0.8 0.9 1.0 1.0 1.0 1.0 0.9 0.9 0.7 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 1.0 0.8 0.9 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 2.4 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 2.4 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 2.4 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 0.9 0.8 0.6 1.0 1.7 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9 1.4 1.9 1.9 1.4 1.9 1.0 1.1 1.1 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9 1.4 1.2 1.5 1.0 1.1 1.1 1.1 1.1 1.3 2.0 0.8 1.4 1.2 1.5 1.1 1.1 1.1 1.3 2.5 2.4 1.2 1.2 1.2 1.1 1.1 1.1 1.3 2.5 2.4 1.2 1.2 1.2 1.1 1.1 1.3 2.5 2.4 1.2 1.2 1.2 1.1 1.1 1.3 2.5 2.4 1.2 1.2 1.2 1.2 1.1 1.3 2.5 2.4 1.2 1.2 1.2 1.2 1.2 1.1 1.3 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.4 1.2 1.5 2.5 2.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1 1.2 1.0 0.7 0.6 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 1.2 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 1.2 0.5 1.3 0.5 1.3 1.2 0.5 1.3 0.5 1.3 1.2 0 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.8 1.7 1.6 1.0 1.5 1.4 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.7 1.0 0.6 1.3 1.2 1.1 1.4 2.0 0.6 0.9 1.2 1.3 1.0 1.5 1.1 1.2 1.1 1.4 2.0 0.6 0.9 1.2 1.3 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.7 1.0 0.6 1.2 1.5 1.5 1.7 1.0 0.6 1.5 1.7 1.0 0.6 1.5 1.5 1.7 1.0 0.6 1.3 1.5 1.5 1.7 1.0 0.6 1.3 1.5 1.5 1.7 1.0 0.6 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.7 1.0 0.6 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.7 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.2 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.2 1.9 1.3 1.9 1.2 1.9 1.3 1.9 1.2 1.9 1.3 1.9 1.2 1.9 1.3 1.9 1.2 1.9 1.2 1.9 1.3 1.9 1.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.7 0.8 1.0 0.9 0.6 1.0 0.9 0.6 1.0 0.9 0.6 1.0 0.9 0.6 0.7 0.8 0.7 0.8 0.9 0.6 0.7 0.8 0.7 0.8 0.9 0.6 0.7 0.8 0.7 0.8 0.7 0.9 0.6 0.7 1.9 0.6 0.7 1.9 0.6 0.7 1.9 0.6 0.7 1.9 0.6 0.7 1.9 0.6 0.7 1.9 0.6 0.7 1.9 0.6 0.7 1.9 0.6 0.7 0.8 1.0 0.8 0.7 0.8 1.0 0.8 0.7 0.8 0.6 0.7 0.8 0.0 0.5 0.7 0.8 0.5 0.7 0.6 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.7 0.5 0.7 0.8 0.7 0.5 0.5 0.5 0.7 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 1.3 1.2 1.2 0.8 0.5 0.3 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.5 1.3 1.0 0.7 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24           25           26	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.9 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 1.5 1.0 0.6 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 0.8 1.0 1.0 1.0 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.4 1.3 2.4 2.0 1.4 1.5 1.2 1.2 1.0 0.9 0.8 0.6 1.0 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9 1.4 0.9 1.9	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 0.5 1.3 0.5 1.3 0.5 1.3 1.2 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 1.2 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 1.2 2.0 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 0.5 1.3 1.2 0.5 1.3 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.2 0.5 1.3 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.8 1.7 1.6 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.5 2.1 1.5 1.0 1.5 1.7 1.0 0.6 1.3 1.5 1.0	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.7 1.0 1.0 1.5 1.9 1.1 1.9 1.1 1.9 1.1 1.9 1.1 1.9 1.1 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.0 1.0 1.5 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 0.7 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.4 0.6 0.4 0.4	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24           25           26           27	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.0 1.4 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 1.3 1.0 0.6 1.3 1.3 1.1 0.9 1.2 1.3 1.3	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 1.0 0.6 1.0 1.0 0.6 1.0 1.0 0.6 1.0 1.0 0.6 1.0 1.0 0.6 1.0 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 0.6 1.0 0.6 1.0 0.6 0.6 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.4 1.3 2.4 2.0 2.0 2.5 1.2 1.2 1.0 0.9 0.8 0.6 1.0 1.7 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9 1.4 0.9 1.5 1.1 1.5 1.5 1.5 1.5 1.5 1.5	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1 1.5 1.0 2.0 2.1 1.5 1.0 2.0	Jul 1.9 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.2 1.6 1.0 1.5 1.8 1.7 1.6 1.0 1.5 1.3 1.5 1.2 2.3 1.4 1.5 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 1.5 1.5 1.5 1.7 1.0 0.6 1.5 1.5 1.7 1.0 0.6 1.3 1.5 1.0 0.6 1.3 1.5 1.0 1.5 1.0 0.6 1.5 1.5 1.7 1.0 0.6 1.5 1.5 1.5 1.7 1.0 0.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 1.0 1.3 1.8 2.1 1.2 1.9 1.0 1.3 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.7 1.0 0.9 1.3 1.9 1.2 1.9 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 0.8 0.5 0.7 0.8 0.5 0.8	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.3 0.5 0.5 1.0 0.9 0.9 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.4 0.6 0.4 1.0	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24           25           26           27           28	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.9 0.8 0.8 0.9 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.4 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 1.0 1.4 0.6 0.6 1.0 1.0 0.6 1.0 1.0 0.6 1.0 1.0 0.6 0.6 1.0 0.6 0.6 0.6 0.6 1.0 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 1.0 0.6 1.0 0.6 1.0 1.0 0.6 1.0 0.7 1.0 1.0 0.7 1.1 0.7 0.7 1.1 1.2 1.1 0.7 0.7 1.1 1.2 1.1 0.7 0.7 1.1 1.2 1.1 1.2 1.1 1.1 0.7 0.7 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 0.9 0.8 0.6 1.0 1.7 2.4 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 2.4 2.5 2.3 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 2.4 1.8 1.4 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 2.4 1.8 1.4 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5 2.4 1.2 1.3 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.0 0.7 0.6 0.5 1.3 1.2 2.0 1.3 1.0 0.7 0.6 0.5 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 1.3 1.2 2.0 2.1 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.0 2.0 1.7 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.0 1.5 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.8 1.7 1.6 1.0 1.5 1.8 1.7 1.6 1.0 1.5 1.8 1.7 1.6 1.0 1.5 1.8 1.7 1.5 1.2 2.3 1.4 1.0 1.5 1.2 2.3 1.4 1.0 1.5 1.5 1.2 2.3 1.4 1.0 1.5 1.5 1.5 1.2 2.3 1.4 1.0 1.5 1.5 1.5 1.2 2.3 1.4 1.0 1.5 1.2 2.0 1.1 1.5 1.2 2.0 1.1 1.5 1.2 2.0 1.2 1.6 1.0 1.5 1.2 2.0 1.2 1.6 1.0 1.5 1.2 2.0 1.2 1.6 1.0 1.5 1.5 1.2 2.0 1.5 1.5 1.2 2.0 1.5 1.5 1.2 2.0 1.5 1.5 1.2 2.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.5 1.7 1.0 0.6 1.3 1.5 1.7 1.0 0.6 1.3 1.5 1.7 1.0 0.6 1.4 1.4 2.1 1.4 2.5 0.6 0.9 1.2 1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.7 1.0 0.8 0.9 1.3 1.9 0.8 0.9 1.3 1.9 0.8 0.9 1.3 1.9 0.8 0.9 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.3 1.9 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.0 0.8 0.9 1.0 0.8 0.9 1.0 0.8 0.9 1.0 0.8 0.9 0.9 1.0 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.9 0.8 0.9 0.8 0.9 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 0.8 1.0 0.6 0.5 0.7 0.8 0.5 0.8 0.5 0.5 0.8 0.5 0.5 0.8 0.5 0.8 0.5 0.5 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.5 0.5 1.0 0.9 0.9 1.0 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.5 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.7 1.0 0.5 1.0 0.5 1.3 1.0 0.7 0.5 1.0 0.5 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 25 26 27 28 20	Jan 2.8 0.6 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.9 0.9 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 1.0 0.6 1.0 0.7 0.6 1.0 0.7 0.6 1.0 0.7 0.6 1.0 0.7 0.6 1.0 0.7 0.6 1.0 0.7 0.6 1.0 1.0 0.7 1.0 1.0 1.0 1.0 1.0 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.1 1.1 1.2 1.5 1.2 1.0 0.9 0.8 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.6 1.0 0.5 1.2 1.2 1.0 0.9 0.8 0.6 1.0 0.5 1.2 1.0 0.9 0.8 0.6 1.0 0.5 1.2 1.0 0.5 1.2 1.0 0.9 0.8 0.6 1.0 0.5 1.2 1.0 0.5 1.2 1.0 0.5 1.2 1.0 0.5 1.2 1.0 0.5 0.6 1.0 0.5 1.2 1.0 0.9 0.8 0.6 1.0 0.5 1.2 0.0 0.8 0.6 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5 2.4 1.2 1.3 1.9 1.4 0.9 1.9 1.5 1.3 2.0	Jun 1.2 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.7 0.6 0.7 1.5 1.0 0.7 0.7 0.6 0.7 1.5 1.0 0.7 0.7 0.6 0.7 1.5 1.0 0.7 0.7 0.6 0.7 1.5 1.0 0.7 0.7 0.6 0.7 1.5 1.0 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.2 1.3 1.2 2.0 0.7 0.6 0.5 1.3 1.2 2.0 0.2 1.3 1.2 2.0 2.1 1.5 1.0 0.2 0 2.1 1.5 1.0 0.2 0 2.0 1.3 1.2 2.0 2.0 2.1 1.5 1.0 0.2 0 2.0 1.3 1.2 2.0 2.0 1.3 1.2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.8 1.7 1.6 1.0 1.5 1.3 1.5 1.4 1.7 1.5 1.2 2.3 1.4 1.0 1.5 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.0 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.0 1.5 1.7 1.0 0.6 1.3 1.5 1.7 1.0 0.6 1.3 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.7 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.3 1.9 1.2 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.3 1.9 1.3 1.9 1.0 1.2 1.9 1.0 1.2 1.9 1.0 1.2 1.9 1.0 1.2 1.9 1.0 0.8 0.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.0 1.3 1.9 1.3 1.9 1.0 1.3 1.9 1.3 1.9 1.0 1.0 0.9 0.9 0.0 0.9 0.0 0.9 0.0 0.0	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.7 0.8 0.7 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.6 0.5 0.7 0.8 0.5 0.5 0.6 0.5 0.7 0.8 0.5 0.6 0.7 0.8 0.5 0.6 0.7 0.8 0.5 0.6 0.7 0.8 0.5 0.6 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.7 0.8 0.5 0.5 0.8 0.5 0.5 0.8 0.5 0.5 0.8 0.5 0.5 0.5 0.8 0.5 0.5 0.5 0.8 0.5 0.5 0.5 0.8 0.5 0.5 0.8 0.5 0.5 0.5 0.8 0.5 0.5 0.5 0.5 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.5 0.5 1.0 0.9 0.9 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.4 0.6 0.4 1.0 1.2 1.2 1.2 1.2 0.8 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24           25           26           27           28           29           20	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.9 0.9 0.8 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.4 0.8 1.0 0.6 0.8 1.3 1.0 0.6 0.8 1.3 1.0 0.6 1.5 1.4 0.6 1.5 1.4 0.6 1.5 1.4 0.6 1.5 1.0 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 1.0 0.6 0.6 1.0 0.6 1.0 0.6 0.6 1.0 0.7 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.7 1.0 1.0 0.6 0.6 1.0 0.7 1.0 1.0 1.0 0.6 0.6 1.0 1.0 1.0 0.6 0.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.4 1.3 2.4 2.0 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 1.7 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 1.7 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.7 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.4 1.2 1.3 1.9 1.4 0.9 1.4 0.9 1.5 2.5 2.4 1.2 1.3 1.9 1.4 0.9 1.2 1.1 1.1 1.1 1.3 2.5 2.5 2.4 1.2 1.3 1.9 1.4 0.9 1.4 1.2 1.3 1.9 1.4 1.2 1.3 1.9 1.4 1.2 1.3 1.9 1.4 1.9 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.7 0.6 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.5 1.3 1.2 2.0 2.1 1.5 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.0 0.5 1.3 1.0 0.5 1.5 1.0 0.5 1.5 1.5 1.5 1.0 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.3 1.5 1.8 1.7 1.6 1.0 1.5 2.3 2.3 1.7	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.5 1.5 1.7 1.0 0.6 1.5 1.7 1.0 0.6 1.5 1.5 1.7 1.0 0.6 1.5 1.5 1.7 1.0 0.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 1.9 2.1 0.8 1.0 0.6 0.7 0.8 1.0 0.6 0.7 0.8 0.7 0.8 0.5 0.8 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.8 0.5 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 0.3 0.5 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.5 1.0 0.5 1.0 0.9 1.0 0.5 1.1 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 0.3 0.5 0.3 0.5 0.5 1.0 0.5 1.1 1.1 1.2 1.1 1.2 1.1 1.2 0.3 0.5 0.3 0.4 0.6 0.4 1.0 0.4 1.0 0.4 1.0 0.4 1.0 0.4 1.0 0.4 1.0 0.4 1.0 0.4 1.0 0.4 1.1 1.2 1.4 1.0 0.5 0.3 0.4 0.4 1.0 0.4 1.1 1.2 1.4 1.0 0.5 0.3 0.4 1.0 0.4 1.1 1.4 1.4 1.8 0.4 1.1 1.4 1.4 1.8 0.4 1.1 1.4 1.4 1.8 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2005 JA	Month           Day           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16           17           18           19           20           21           22           23           24           25           26           27           28           29           30	Jan 2.8 0.6 0.9 1.3 1.0 1.6 0.6 0.9 1.3 1.0 1.6 0.6 0.9 0.8 0.8 0.8 0.8 0.8 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Feb 0.8 0.5 1.0 0.6 1.5 0.6 1.0 0.6 1.0 1.0 1.4 0.6 0.8 1.3 1.0 1.5 1.4 0.6 0.8 1.3 1.0 1.5 1.4 0.6 1.5 1.4 0.6 1.5 1.0 1.5 1.0 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 0.9 0.8 1.0 1.6 1.0 1.1 0.9 0.6 1.0 0.6 1.0 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 0.8 0.9 0.6 1.0 1.0 0.6 0.6 1.0 0.6 1.0 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.6 0.6 1.0 0.7 1.0 1.0 0.7 1.1 0.7 0.7 1.1 1.2 2.2 1.1 0.7 0.7 1.1 1.0 0.7 1.1 1.0 0.7 1.1 1.0 0.7 0.7 1.1 1.0 0.7 1.1 1.0 0.7 0.7 1.1 1.0 0.7 1.1 1.0 0.7 0.7 1.1 1.0 0.7 0.7 1.1 1.0 1.0 0.7 1.1 1.0 1.0 0.7 1.1 1.0 1.0 0.7 1.1 1.0 0.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Apr 1.0 1.0 0.6 1.0 1.7 2.4 2.0 2.5 2.3 1.8 1.4 1.1 1.2 1.5 1.5 1.2 1.0 0.9 0.8 0.6 1.0 1.4 1.3 2.4 2.0 0.9 0.8 0.6 0.9	May 1.9 1.0 1.2 1.5 0.9 1.0 1.1 1.8 1.8 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.3 2.5 2.5 2.4 1.2 1.3 1.9 1.4 0.9 1.4 0.9 1.1 1.1 1.3 2.0 0.8 1.4 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Jun 1.2 0.8 0.8 0.7 2.9 2.6 1.8 1.7 1.4 0.9 1.2 2.0 1.3 0.9 1.5 1.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 0.9 0.5 1.3 1.2 2.0 0.5 1.3 0.9 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 0.9 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.2 2.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.0 0.5 1.3 0.5 1.0 0.5 1.3 0.5 1.0 0.5 1.5 1.0 0.5 1.5 1.0 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	Jul 1.9 1.5 1.5 1.4 1.3 0.9 1.1 2.0 1.7 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.2 1.6 1.0 1.5 1.2 2.3 1.4 1.0 1.9 2.0 1.1 2.3 1.5 1.5 1.2 2.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 0.8 1.2 1.1 1.6 1.4 2.1 2.5 0.6 0.9 1.2 1.3 1.0 1.2 1.5 2.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	Sep 1.2 1.3 1.0 1.5 1.9 1.8 2.0 1.5 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.9 1.0 1.3 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.1 2.6 1.2 1.8 2.4 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.0 0.8 0.9 1.3 1.9 1.5 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.3 1.9 1.5 1.9 1.3 1.9 1.3 1.9 1.5 1.9 1.3 1.9 1.5 1.9 1.3 1.9 1.5 1.9 1.5 1.9 1.3 1.9 1.5 1.9 1.5 1.9 1.3 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.9 1.5 1.0 0.9 0.8 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Oct 0.7 0.8 1.3 1.6 1.0 0.9 1.0 1.2 1.9 0.9 0.6 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.7 1.9 0.4 0.6 0.7 0.8 0.5 0.8 0.5 0.8 0.5 0.6 1.3	Nov 1.3 1.2 0.8 0.5 0.3 0.5 0.8 0.5 0.5 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.6 0.8 0.3 0.5 1.1 1.2 1.6 0.8 0.3 0.5 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.5 1.1 1.2 1.2 1.2 1.2 1.2 0.8 0.5 0.5 1.0 0.9 0.9 1.0 0.5 1.1 0.5 1.0 0.9 1.0 0.5 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.0 0.9 0.9 1.0 0.5 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Dec 1.3 1.1 0.6 0.8 0.9 1.0 0.5 0.5 0.5 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.3 1.0 0.5 1.0 0.5 0.5 0.5 1.3 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0

	Month		I		•					•	<u> </u>		<b>_</b>
Yr/	Day	Jan	⊦eb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	1.8	0.4	1.3	1.1	1.5	2.4	0.5	1.1	0.6	0.9	0.5	0.6
	2	1.3	0.5	0.8	1.1	1.6	1.7	1.0	1.6	1.7	0.7	0.5	0.4
	3	0.7	1.4	0.6	1.1	1.4	1.5	1.2	1.9	2.4	0.9	0.5	0.7
	4	0.7	1.8	0.7	0.5	1.3	1.4	2.0	1.7	1.0	0.5	0.4	1.4
	5	2.5	1.4	0.5	0.8	0.9	1.3	1.5	2.0	0.7	0.4	0.3	0.7
	6	1.4	0.4	1.2	1.1	1.0	1.3	1.9	1.9	0.6	0.3	0.5	0.8
	7	1.5	0.5	1.3	0.8	0.9	1.3	1.5	1.5	0.9	0.3	1.0	0.6
	8	0.5	0.8	1.9	0.6	0.9	1.2	1.6	1.0	1.0	0.3	0.8	0.5
	9	0.5	0.7	1.8	2.0	2.5	1.1	1.9	1.0	0.8	0.6	0.6	0.6
	10	0.4	0.6	1.3	2.6	1.2	0.9	2.3	1.0	1.0	0.8	0.6	0.6
	11	12	0.7	11	24	10	10	14	0.6	0.6	10	0.6	0.4
	12	0.8	0.8	1.0	19	1.0	13	10	1.0	10	0.8	0.0	0.8
	13	0.3	10	1.0	14	0.7	2.0	17	0.9	0.8	14	1.0	0.7
	14	0.0	0.6	1.0	1.4	0.7	15	2.0	1.0	1.0	2.5	<u> </u>	1.0
	15	0.0	1.0	<u>1.2</u>	1.0	22	1.5	0.6	1.0	0.6	0.5	1.0	1.0
90	16	1.2	1.0	0.0	1.7	1.0	1.0	0.0	1.1	0.0	0.5	1.0	0.0
20	17	0.7	0.9	0.0	1.5	1.8	1.0	1.0	0.0	1.0	0.7	1.1	0.0
	10	0.7	0.8	1.0	1.0	2.2	3.1	1.0	0.8	1.0	0.0	1.0	0.8
	10	0.5	0.6	1.0	1.3	1.3	0.9	1./	0.0	1.0	0.0	1.0	1.1
	19	0.7	0.5	1.4	1./	1.1	1.0	1./	0.8	0.9	0.6	0.6	1.0
	20	8.0	0.4	2.2	1./	2.6	1.0	2.0		1.1	2.4	1.5	0.4
	21	1.4	0.6	1.4	1.4	1.0	0.6	2.2	2.0	0.6	1.0	1.0	0.6
	22	1.0	0.6	1.1	1.1	1.4	0.8	1.7	1.0	0.7	0.9	1.0	0.4
	23	1.5	1.5	1.4	1.5	1.2	0.8	1.8	1.0	1.6	0.8	0.8	0.4
	24	1.2	0.8	1.4	1.4	1.1	1.2	1.8	1.0	0.6	0.8	1.0	0.5
	25	0.3	0.7	1.4	0.8	1.4	1.9	2.7	1.3	0.6	0.9	1.0	0.6
	26	1.1	0.6	1.7	0.9	1.2	2.8	2.0	1.2	0.6	0.7	1.1	0.7
	27	0.6	0.9	1.5	0.9	0.6	1.8	1.9	1.5	1.2	0.6	1.0	0.8
	28	0.6	1.6	1.5	0.6	1.2	2.4	2.0	1.8	0.6	0.6	0.8	0.6
	29	0.4		1.1	1.4	3.0	1.6	2.0	1.2	0.5	0.6	0.6	0.6
	30	0.6		1.2	1.5	2.0	2.2	1.8	0.6	0.5	0.6	0.6	0.6
	31	0.6		0.7		0.8		0.9	0.6		0.6		0.5
<	Month	lau.	E.h	Mau	<b>A</b>	Maria	l	I. J	<b>A</b>	6 a m	0.4	Nau	Dee
Yr/	Month Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Νον	Dec
Yr/	Month Day 1	Jan 0.4	Feb 0.3	Mar 0.7	Apr 1.1	Мау 0.6	Jun 0.6	Jul 0.6	Aug 3.4	Sep 2.2	Oct 0.6	Nov 0.6	Dec 2.7
Yr/	Month Day 1 2	Jan 0.4 0.4	Feb 0.3 0.3	Mar <u>0.7</u> 0.6	Apr 1.1 1.1	May 0.6 0.8	Jun 0.6 0.3	Jul 0.6 0.3	Aug <u>3.4</u> 2.6	Sep 2.2 2.8	Oct 0.6 0.5	Nov 0.6 1.3	Dec 2.7 2.0
Yr/	Month Day 1 2 3	Jan 0.4 0.4 0.6	Feb 0.3 0.3 0.1	Mar 0.7 0.6 0.5	Apr 1.1 1.1 1.1	May 0.6 0.8 2.5	Jun 0.6 0.3 0.5	Jul 0.6 0.3 0.8	Aug <u>3.4</u> 2.6 2.7	Sep 2.2 2.8 2.7	Oct 0.6 0.5 0.5	Nov 0.6 1.3 0.8	Dec 2.7 2.0 2.2
Yr/	Month Day 1 2 3 4	Jan 0.4 0.6 0.6	Feb 0.3 0.3 0.1 0.6	Mar 0.7 0.6 0.5 1.3	Apr 1.1 1.1 1.1 0.3	May 0.6 0.8 2.5 0.7	Jun 0.6 0.3 0.5 0.8	Jul 0.6 0.3 0.8 1.0	Aug 3.4 2.6 2.7 3.6	Sep 2.2 2.8 2.7 1.2	Oct 0.6 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2	Dec 2.7 2.0 2.2 1.6
Yr/	Month Day 1 2 3 4 5	Jan 0.4 0.4 0.6 0.6 0.6	Feb 0.3 0.3 0.1 0.6 0.3	Mar 0.7 0.6 0.5 1.3 1.3	Apr 1.1 1.1 1.1 0.3 0.3	May 0.6 0.8 2.5 0.7 0.6	Jun 0.6 0.3 0.5 0.8 0.2	Jul 0.6 0.3 0.8 1.0 0.9	Aug 3.4 2.6 2.7 3.6 2.2	Sep 2.2 2.8 2.7 1.2 3.1	Oct 0.6 0.5 0.5 0.5 0.6	Nov 0.6 1.3 0.8 1.2 0.4	Dec 2.7 2.0 2.2 1.6 1.4
<u>Yr/</u>	Month Day 1 2 3 4 5 6	Jan 0.4 0.6 0.6 0.6 0.8	Feb 0.3 0.3 0.1 0.6 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.3	Apr 1.1 1.1 1.1 0.3 0.3 0.3	May 0.6 0.8 2.5 0.7 0.6 0.3	Jun 0.6 0.3 0.5 0.8 0.2 0.7	Jul 0.6 0.3 0.8 1.0 0.9	Aug 3.4 2.6 2.7 3.6 2.2 2.2	Sep 2.2 2.8 2.7 1.2 3.1 5.6	Oct 0.6 0.5 0.5 0.5 0.6 0.1	Nov 0.6 1.3 0.8 1.2 0.4 0.3	Dec 2.7 2.0 2.2 1.6 1.4 0.5
Yr/	Month Day 1 2 3 4 5 6 7	Jan 0.4 0.6 0.6 0.6 0.8 0.3	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.1	Apr 1.1 1.1 1.1 0.3 0.3 0.4	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.8	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4 5	Oct 0.6 0.5 0.5 0.5 0.6 0.1	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8
Yr/	Month Day 1 2 3 4 5 6 7 8	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1	Apr 1.1 1.1 0.3 0.3 0.3 0.4 0.3	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6	Jul 0.6 0.3 1.0 0.9 0.9 0.8 0.7	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1	Oct 0.6 0.5 0.5 0.6 0.1 0.4	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0
Yr/	Month Day 1 2 3 4 5 6 7 8 8	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.9 0.8 0.7	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 2.4	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1	Oct 0.6 0.5 0.5 0.5 0.6 0.1 0.4 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0
Yr/	Month Day 1 2 3 4 5 6 7 8 9	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6 0.6 0.6	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7	Apr 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.8 0.7 0.9 0.6	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.2	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2	Oct 0.6 0.5 0.5 0.5 0.6 0.1 0.4 0.3 0.5 0.2	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.2	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6 0.6 0.6	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7	Apr 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 2.3	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.5 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.2	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6 0.6 0.6 0.6 0.8 0.6	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.2	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.7 0.7 0.7	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 3.1	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2	Oct 0.6 0.5 0.5 0.5 0.6 0.1 0.4 0.3 0.5 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.3 0.0	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 12	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6 0.6 0.6 0.8 0.6 0.8 0.6 0.6	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7	Apr 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.3 0.3	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.3 3.1 2.2	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2	Oct 0.6 0.5 0.5 0.5 0.6 0.1 0.4 0.3 0.5 0.3 0.3 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.0	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.0
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7	Apr 1.1 1.1 1.1 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.5 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 1.1	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 2.2	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.5 0.3 0.3 0.4 0.3 0.4 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.3	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6	Apr 1.1 1.1 1.1 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.5 0.6 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 1.1 1.1 1.1	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 3.8	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.3 0.0 0.5 0.5 0.3 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.2 1.2
V Yr/ 20	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 12	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.1 0.3	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 2.5 0.5 0.7 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.7	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 1.1 1.1 1.1 0.7	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 3.8 4.3 2.5	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.4 0.3 0.4 0.4 0.4 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6
2007	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.1 0.3 0.1	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.4	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.8 0.5	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.7 0.8	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.7	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 1.1 1.1 1.1 0.7 	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 4.3 2.1	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.1 0.4 0.5 0.1 0.4 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0
2007	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.1 0.3 0.1 0.3 0.4 0.4	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.4 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 - - - - - - - - - - - - -	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.8 0.7	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.7 0.4 1	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 1.1 1.1 1.1 0.7 0.8 	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.1 0.8 0.2 0.5 0.3 0.0 1.0 0.8 0.2 0.4 0.4 0.5 0.3 0.0 0.0 0.5 0.3 0.0 0.0 0.0 0.5 0.3 0.0 0.0 0.0 0.5 0.3 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9
2007 JA	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.1 0.3 0.1 0.3 0.4 0.4 0.4	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.3 0.7	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7	Apr 1.1 1.1 1.1 0.3 0.3 0.4 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.8 0.7 1.0	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.7 0.4 0.4	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.8 0.7 0.9 0.6 0.6 1.1 1.1 1.1 0.7 0.8 0.5	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2 3.4	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1
2007 JA	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.3 0.3 0.1 0.3 0.1 0.3 0.4 0.4 0.4 0.3	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.3 0.7 0.1	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3	Jul 0.6 0.3 0.8 1.0 0.9 0.9 0.8 0.7 0.9 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2 3.4 2.3	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.4 0.3 0.4 0.3 0.5 0.3 0.5 0.3 0.3 0.4 0.3 0.4 0.3 0.5 0.3 0.3 0.4 0.3 0.4 0.3 0.5 0.3 0.3 0.4 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.5 0.3 0.3 0.3 0.4 0.3 0.5 0.3 0.3 0.3 0.4 0.3 0.5 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8
2007 JA	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Jan 0.4 0.6 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.1 0.3 0.1 0.3 0.4 0.4 0.4 0.3 0.3	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.3 0.7 0.1 0.8	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8	Apr 1.1 1.1 1.1 0.3 0.3 0.4 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6 0.3	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2 3.4 2.3 3.0	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.3 0.4 0.3 0.5 0.3 0.3 0.4 0.3 0.5 0.3 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.4 0.3 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.4 0.3 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.4 0.0 1.0 0.8 0.2 0.4 0.4 0.3 0.2 0.4 0.4 0.3 0.2 0.4 0.5 0.3 0.0 0.0 0.5 0.3 0.0 0.0 0.0 0.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2
2007 J. A	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.6 0.8 0.6 0.3 0.3 0.3 0.1 0.3 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.3 0.7 0.1 0.8 0.7 0.4 0.3 0.7 0.4 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.5 0.6 0.6 0.6 0.7 0.4 0.7 0.4 0.7 0.6 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2 3.4 2.3 3.0 2.2 3.0 2.4 3.3 3.1 2.9 3.8 4.3 2.1 2.2 3.8 3.8 4.3 2.1 2.2 3.8 3.8 4.3 2.1 3.8 3.8 4.3 2.1 3.8 4.3 2.1 3.8 3.8 4.3 2.1 3.8 4.3 2.1 3.8 4.3 2.1 3.8 4.3 2.1 3.8 4.3 2.1 3.8 4.3 2.1 3.8 4.3 2.1 3.8 4.3 2.1 2.2 3.8 4.3 2.1 2.2 3.8 4.3 2.1 2.2 3.8 4.3 2.1 2.2 3.8 3.8 4.3 2.1 2.2 3.0 2.1 3.8 3.8 4.3 2.1 2.2 3.0 3.8 4.3 2.1 2.2 3.0 2.1 3.8 3.8 4.3 2.1 2.2 3.4 2.2 3.0 2.1 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.2 0.4 0.3 0.0 1.0 0.8 0.2 0.4 0.3 0.2 0.4 0.3 0.2 0.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3
2007	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.1 0.3 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.1 0.8 0.6 0.7	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 1.0	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 1.1 0.7 0.7 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3 0.3 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.4 0.7 0.6 0.5	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.5 0.7	Jul 0.6 0.3 0.9 0.9 0.9 0.6 0.6 0.6 0.6 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 3.1 2.9 3.8 4.3 2.1 2.2 3.4 2.2 3.4 2.3 3.0 2.2 3.4 2.2 3.4 2.2 3.6 2.2 3.6 2.2 3.0 2.4 3.3 3.1 2.9 3.8 3.8 4.3 2.1 3.8 3.8 4.3 2.1 3.8 4.3 3.1 2.2 3.8 3.8 4.3 2.1 3.8 4.3 3.1 2.2 3.8 4.3 3.1 2.2 3.8 4.3 3.1 2.2 3.8 4.3 3.1 2.2 3.8 4.3 3.1 2.2 3.8 3.8 4.3 2.1 3.8 3.8 4.3 3.1 2.2 3.8 3.8 3.8 3.8 3.8 3.1 2.2 3.8 3.8 3.8 3.8 3.1 2.2 3.8 3.8 3.8 3.8 3.1 2.2 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.5 0.1 0.3 0.5 0.1 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.5 0.1 0.8 0.2 0.4 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.0 0.8 0.0 0.5 0.3 0.0 0.0 0.5 0.3 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8
2007	Month Day 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.3 0.7 0.1 0.8 0.7 0.4	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 1.0 0.9	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3 0.3 0.6 1.1 1.1 1.1 0.3 0.3 0.4 0.3 0.4 0.3 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.4 0.7 0.6 0.5 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.5 0.7 1.1	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 0.6 1.1 1.1 1.1 1.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2 3.4 2.3 3.4 2.2 3.4 2.3 3.0 2.2 3.0 2.4 3.3 3.1 2.9 3.8 3.8 4.3 3.1 2.2 3.0 2.2 3.0 2.4 3.3 3.1 2.9 3.8 3.8 4.3 3.1 2.2 3.0 2.2 3.0 2.4 3.3 3.1 2.9 3.8 3.8 3.1 2.2 3.0 2.2 3.0 3.1 2.2 3.0 3.1 2.2 3.0 3.1 2.2 3.0 3.1 2.2 3.8 3.8 3.1 2.2 3.0 3.1 2.2 3.8 3.8 3.1 2.2 3.8 3.8 3.1 2.2 3.8 3.8 3.1 2.2 3.4 3.8 3.8 3.8 3.1 2.2 3.4 3.8 3.8 3.1 2.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.2 3.4 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.5 0.1 0.3 0.5 0.1 0.3 0.5 0.1 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.0 0.8 0.2 0.4 0.0 0.4 0.5 0.1 0.8 0.2 0.5 0.3 0.0 0.0 1.0 0.8 0.2 0.5 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8 1.0
2007	Month Day 1 2 3 4 5 6 7 8 9 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.3 0.7 0.1 0.8 0.7 0.1 0.8 0.7 0.4 0.3	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 1.0 0.9 1.0	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.6 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3 0.3 0.3 0.5 1.1 0.7 1.1 0.7 1.1 0.3 0.3 0.3 0.3 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.6 0.5 0.6 0.5 0.6 0.5 0.7	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.3 0.7 0.3 0.7 0.3 0.7 0.8 0.6 1.1 0.3 0.7 0.5 0.7 0.3 0.5 0.7 0.5 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.5 0.7 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5 0.6	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 4.3 2.1 2.2 3.4 4.3 2.1 2.2 3.4 2.3 3.8 4.3 2.1 2.2 3.4 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.2 3.0 2.4 3.3 3.1 2.2 3.8 3.8 4.3 3.1 2.2 3.8 3.8 4.3 2.1 2.2 3.8 3.8 4.3 2.1 2.2 3.8 3.8 4.3 2.1 2.2 3.4 3.8 3.8 4.3 2.1 2.2 3.4 3.8 3.8 3.8 3.0 2.1 2.2 3.8 3.8 3.8 3.0 2.2 3.8 3.8 3.0 2.2 3.8 3.8 3.8 3.0 2.2 3.4 3.8 3.8 3.0 2.1 2.2 3.4 3.2 3.8 3.0 3.0 2.2 3.4 3.8 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2 1.3	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.3 0.5 0.1 0.3 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.5 0.1 0.5 0.1 0.8 0.2 0.5 0.3 0.0 0.0 0.5 0.1 0.5 0.3 0.0 0.5 0.5 0.3 0.0 0.5 0.3 0.0 0.5 0.3 0.0 0.5 0.3 0.0 0.5 0.5 0.3 0.0 0.5 0.3 0.0 0.5 0.5 0.3 0.0 0.5 0.5 0.3 0.0 0.5 0.5 0.5 0.1 0.8 0.5 0.5 0.5 0.1 0.8 0.5 0.5 0.1 0.8 0.5 0.5 0.1 0.8 0.5 0.1 0.8 0.5 0.1 0.8 0.5 0.1 0.8 0.5 0.1 0.8 0.2 0.5 0.1 0.8 0.2 0.5 0.1 0.8 0.2 0.5 0.3 0.0 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.0 0.5 0.1 0.8 0.2 0.4 0.0 0.5 0.1 0.8 0.2 0.4 0.0 0.8 0.2 0.4 0.0 0.8 0.0 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.5 0.1 0.6 0.5 0.5 0.4 0.0 0.6 0.5 0.5 0.4 0.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8 1.0 1.1
2007	Month Day 1 2 3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.3 0.7 0.1 0.8 0.6 0.7 0.1 0.8 0.6 0.7 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 1.0 0.9 1.0 0.6	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3 0.3 0.5 1.1 0.7 0.6 0.3 0.3 0.6 0.0 0.7 0.7 0.7 0.7 0.8 0.3 0.7 0.7 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.0	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.7 0.6 0.6 0.7 0.4 0.7 0.6 0.5 0.6 0.7 0.6 0.5 0.6 0.5 0.6 0.7 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.6 0.7 0.7 0.6 0.6 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.7 0.7 0.4 0.7 0.6 0.6 0.7 0.7 0.4 0.7 0.6 0.6 0.5 0.6 0.7 0.4 0.7 0.6 0.6 0.5 0.6 0.6 0.7 0.6 0.6 0.7 0.7 0.4 0.7 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.7 0.5 0.6 0.7 0.6 0.5 0.6 0.7 0.7 0.6 0.5 0.6 0.7 0.7 0.6 0.5 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.3 0.7 0.3 0.7 0.3 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 0.1 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.3 0.7 0.3 0.5 0.3 0.7 0.3 0.5 0.3 0.5 0.3 0.7 0.3 0.5 0.3 0.7 0.3 0.5 0.3 0.7 0.3 0.5 0.3 0.7 0.5 0.3 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.9 0.7 0.5 0.7 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.6 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5 0.6 0.6	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 4.3 2.1 2.2 3.4 2.3 3.1 2.9 3.8 4.3 2.1 2.2 3.4 2.2 3.0 2.2 3.0 2.4 3.3 3.1 2.9 3.8 4.3 2.1 2.2 3.0 2.2 3.0 2.4 3.3 3.1 2.9 3.8 4.3 3.1 2.2 3.8 4.3 3.1 2.2 3.0 2.4 3.8 4.3 3.1 2.2 3.8 3.8 4.3 3.1 2.2 3.8 3.8 4.3 3.1 2.2 3.8 3.8 4.3 3.1 2.2 3.4 3.8 4.3 3.1 2.2 3.4 3.8 4.3 3.0 2.2 3.8 3.8 4.3 3.0 2.2 3.8 3.8 4.3 3.0 2.2 3.4 3.8 3.8 4.3 3.0 2.2 3.4 3.8 3.8 3.8 3.0 2.2 3.4 3.8 3.8 3.8 3.0 2.2 3.8 3.8 3.0 2.2 3.4 3.8 3.8 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2 1.3 1.1	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.4 0.3 0.5 0.1 0.3 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.0 0.4 0.0 0.8 0.2 0.4 0.0 0.8 0.2 0.5 0.3 0.0 1.0 0.8 0.0 0.5 0.1 0.8 0.2 0.5 0.3 0.0 0.0 1.0 0.8 0.2 0.5 0.3 0.0 0.0 1.0 0.8 0.2 0.5 0.3 0.0 0.0 1.0 0.8 0.5 0.3 0.0 0.0 1.0 0.8 0.5 0.1 0.0 0.5 0.3 0.0 0.0 0.5 0.1 0.8 0.5 0.5 0.1 0.8 0.5 0.1 0.8 0.5 0.1 0.8 0.5 0.1 0.8 0.5 0.1 0.8 0.5 0.1 0.8 0.2 0.5 0.3 0.0 0.5 0.1 0.8 0.2 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.0 0.5 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8 1.0 1.1 0.7
2007	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.1 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.3 0.7 0.1 0.8 0.6 0.7 0.4 0.3 0.7 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 0.7 0.6 1.8 0.9 0.7 0.6 1.3 0.9 1.0 0.9 1.0 0.5 1.3 0.9 1.0 0.5 0.9 0.7 0.6 1.3 0.9 1.5 0.9 0.7 0.6 0.5 0.9 0.7 0.6 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.9 0.0 0.9 0.0 0.9 0.0 0.0	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3 0.3 0.4 0.3 0.5 0.5 0.7 1.0 0.6 0.3 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.5 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.4 0.4 0.7 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.7 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.7 0.1 0.5 0.6 0.7 0.7 0.5 0.6 0.5 0.6 0.7 0.7 0.5 0.6 0.5 0.6 0.7 0.7 0.5 0.6 0.7 0.7 0.7 0.5 0.7 0.7 0.7 0.5 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.5 0.7 0.3 0.7 0.5 0.7 0.5 0.7 0.3 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 4.3 2.1 2.2 3.4 2.3 3.0 2.6 2.5 2.9 3.2 3.4	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2 1.3 1.1 0.9	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.5 0.3 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.5 0.1 0.8 0.2 0.4 0.2 0.4 0.0 0.8 0.2 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.9 2.1 0.8 1.2 1.3 1.8 1.0 1.1 0.7 0.6
2007 JA	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.1 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.3 0.7 0.1 0.8 0.6 0.7 0.4 0.3 0.7 0.1 0.8 0.5 0.7 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 0.7 0.6 1.8 0.9 0.7 0.6 0.8 0.5 0.9 1.0 0.5 0.9 0.7 0.6 0.5 0.9 0.7 0.6 0.5 0.9 0.7 0.6 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.8 0.9 0.0 0.9 0.0 0.8 0.9 0.0 0.9 0.0 0.9 0.0 0.9 0.0 0.9 0.0 0.0	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3 0.3 0.6 1.1 1.1 0.7 0.6 0.3 0.3 0.3 0.6 0.0 0.5 0.7 0.6 0.7 0.6 0.7 0.6 0.3 0.3 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.4 0.4 0.7 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.4 0.5 0.3 0.7 0.5 0.7 0.3 0.5 0.7 0.5 0.7 0.3 0.5 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.9 0.9 0.6 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5 0.6 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 4.3 2.1 2.2 3.4 2.3 3.0 2.0 2.4 3.8 4.3 2.1 2.2 3.4 2.3 3.0 2.0 2.5 2.9 3.2 3.2 3.4 3.5	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 2.1 1.9 3.1 1.2 1.3 1.2 1.5 2.1 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.5 0.3 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.5 0.1 0.3 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.5 0.1 0.8 0.2 0.4 0.0 0.4 0.0 0.4 0.5 0.5 0.2 0.4 0.5 0.2 0.5 0.2 0.5 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8 1.0 1.1 0.7 0.6 1.0
2007 JA	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 20 21 22 23 24 25 26 27 28	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.1 0.3 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.4 0.3 0.7 0.1 0.8 0.6 0.7 0.4 0.3 0.7 0.1 0.8 1.4 1.0 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.3 0.1 0.8 1.4 1.4 0.3 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.3 0.1 0.8 1.4 0.3 0.5 0.7 0.4 0.4 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.5 0.7 0.4 0.3 0.5 0.7 0.4 0.3 0.5 0.7 0.4 0.3 0.6 0.7 0.4 0.3 0.7 0.1 0.8 0.6 0.7 0.4 0.3 0.6 0.7 0.4 0.3 0.6 0.7 0.4 0.3 0.5 0.7 0.4 0.4 0.3 0.5 0.7 0.4 0.4 0.3 0.5 0.7 0.4 0.4 0.4 0.5 0.7 0.4 0.4 0.4 0.5 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Mar 0.7 0.6 0.5 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 1.0 0.9 1.0 0.5 1.3 0.9 0.7 0.6 0.8 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.9 0.9 0.0 0.9 0.0 0.9 0.0 0.9 0.0 0.9 0.0 0.0	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.7 0.8 0.7 1.0 0.6 0.3 0.3 0.3 0.6 1.1 1.1 0.7 0.6 0.3 0.3 0.3 0.4 0.5 0.0 0.6 0.7 0.7 0.8 0.3 0.6 0.0 0.6 0.7 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.7 0.6 0.0 0.6 0.0 0.6 0.7 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.1 1.1 0.7 0.6 0.3 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.6 0.6 0.5 0.6 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.5 0.7 0.3 0.7 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.9 0.9 0.6 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5 0.6 0.6 0.5 1.4 1.0 1.1 1.2 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 4.3 2.1 2.2 3.4 2.3 3.0 2.0 2.6 2.5 2.9 3.2 3.4 3.5 2.9	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.5 0.1 0.3 0.3 0.5 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.0 0.8 0.2 0.4 0.0 0.8 0.0 0.5 0.1 0.8 0.2 0.4 0.0 0.5 0.3 0.0 1.0 0.8 0.0 0.5 0.1 0.8 0.2 0.4 0.5 0.3 0.0 0.0 0.8 0.0 0.5 0.3 0.0 0.5 0.3 0.0 0.5 0.3 0.0 0.5 0.3 0.0 0.8 0.5 0.5 0.3 0.0 0.8 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.3 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.0 0.8 0.0 0.5 0.1 0.0 0.8 0.0 0.5 0.0 0.4 0.0 0.8 0.0 0.4 0.0 0.8 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.5 0.5 0.2 0.2 0.4 0.2 0.4 0.5 0.2 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.5 0.2 0.4 0.4 0.5 0.5 0.2 0.4 0.4 0.5 0.5 0.5 0.2 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8 1.2 1.3 1.8 1.0 1.1 0.8 1.2 1.3 1.8 0.6 2.0 1.9 2.1 0.8 1.0 1.7 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.2 1.5 1.0 1.7 2.0 2.3 2.0 1.2 1.5 1.0 1.7 2.0 2.3 2.0 1.2 1.5 1.0 1.7 2.0 2.3 2.0 1.2 1.2 1.5 1.0 1.2 1.5 1.0 1.2 1.5 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.0 1.7 2.0 2.3 2.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
2007	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.3 0.7 0.4 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 1.0 0.9 1.0 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.7 0.6 0.8 0.9 1.0 0.7 0.6 0.8 0.9 0.7 0.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 1.1 0.7 0.6 0.3 0.3 0.6 0.7 1.0 0.6 0.3 0.3 0.6 0.7 1.0 0.6 0.3 0.3 0.6 0.7 1.0 0.6 0.7 0.6 0.3 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.3 0.6 0.7 0.6 0.3 0.6 0.7 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.1 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 1.1 0.7 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.3 0.6 0.6 0.3 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.5 0.7 0.3 0.7 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.7 0.3 0.5 0.5 0.5 0.7 0.3 0.5 0.5 0.5 0.7 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2 3.4 2.3 3.1 2.2 3.4 2.3 3.1 2.2 3.4 3.5 2.9 3.0 2.0 3.6 2.5 2.9 3.2 3.2 3.4 3.5 2.9 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2 1.3 1.2 1.9 3.1 2.5 1.2 1.3 1.2 1.2 1.3 1.2 1.2 2.1 2.2 2.1 2.2 3.8 1.2 1.2 1.2 3.8 1.2 1.2 1.2 3.8 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.2 1.3 1.2 1.5 2.1 1.2 1.3 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.2 1.2 1.5 2.1 1.2 1.2 1.2 2.1 1.2 2.1 1.2 2.1 1.2 2.1 1.2 2.1 1.2 2.1 1.2 2.1 1.2 2.1 2.2 1.2 2.1 2.2 1.2 2.1 1.2 2.1 2.1	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.4 0.4 0.3 0.5 0.1 0.3 0.3 0.5 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.0 0.8 0.2 0.4 0.0 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.2 0.4 0.5 0.5 0.2 0.4 0.5 0.5 0.2 0.5 0.3 0.0 1.0 0.8 0.2 0.5 0.3 0.0 1.0 0.8 0.2 0.5 0.3 0.0 1.0 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.6 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.4 0.5 0.1 0.8 0.0 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.4 0.6 0.5 0.1 0.4 0.6 0.5 0.1 0.4 0.6 0.5 0.5 0.1 0.4 0.6 0.5 0.5 0.2 0.4 0.5 0.5 0.1 0.4 0.5 0.5 0.1 0.4 0.5 0.5 0.2 0.4 0.4 0.5 0.5 0.2 0.4 0.4 0.5 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.5 0.4 0.4 0.4 0.5 0.5 0.4 0.4 0.5 0.5 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8 1.0 1.1 0.8 1.2 1.3 1.8 1.0 1.7 0.6 1.0 1.1 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 2.3 2.0 2.3 2.0 2.3 2.0 1.2 1.5 0.8 1.0 1.7 2.0 2.3 2.0 2.3 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.7 2.0 2.3 2.0 2.3 2.0 1.2 1.5 0.8 1.0 1.7 2.0 2.3 2.0 2.3 2.0 1.2 1.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.5 1.6 1.4 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.0 1.7 2.0 1.0 1.7 2.0 1.2 1.0 1.7 2.0 1.2 1.0 1.0 1.7 2.0 1.0 1.7 1.0 1.0 1.7 2.0 1.0 1.7 1.0 2.1 0.8 1.0 1.0 1.7 1.0 2.1 0.8 1.1 2.1 0.8 1.2 1.3 1.2 1.3 1.0 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.1 1.2 1.1 2.1 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1
2007	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 25 26 27 28 29 30	Jan 0.4 0.6 0.6 0.8 0.3 0.6 0.8 0.6 0.8 0.6 0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Feb 0.3 0.3 0.1 0.6 0.3 0.3 0.3 0.1 0.8 1.4 1.0 0.3 0.6 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.7 0.4 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Mar 0.7 0.6 0.5 1.3 1.3 1.1 1.1 0.9 1.6 1.7 1.4 1.0 0.7 0.6 0.8 0.5 0.9 0.7 0.6 1.8 0.9 1.0 0.9 1.0 0.9 1.0 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.9 1.0 0.5 0.9 0.7 0.6 0.8 0.9 1.0 0.9 0.7 0.6 0.8 0.9 1.0 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 1.0 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.7 0.6 0.8 0.9 0.0 0.0 0.8 0.9 0.0 0.0 0.0 0.8 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Apr 1.1 1.1 1.1 0.3 0.3 0.3 0.4 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.6 0.3 0.3 0.6 0.7 1.0 0.6 0.3 0.3 0.6 0.7 1.0 0.6 0.3 0.3 0.6 0.7 1.0 0.6 0.3 0.3 0.6 0.0 0.6 1.1 1.1 0.7 0.6 0.7 0.6 0.3 0.3 0.6 0.0 0.6 0.0 0.6 1.1 1.1 0.7 0.6 0.7 0.6 0.3 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.7 0.6 0.3 0.6 0.7 0.6 0.3 0.6 0.7 0.6 0.3 0.6 0.7 0.6 0.3 0.6 0.7 0.6 0.3 0.6 0.3 0.6 0.7 0.6 0.3 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.6 0.8 2.5 0.7 0.6 0.3 0.7 1.9 0.7 0.6 0.6 0.5 0.6 0.6 0.6 0.7 0.4 0.4 0.7 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.6 0.6 0.5 0.6 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Jun 0.6 0.3 0.5 0.8 0.2 0.7 0.8 0.6 0.2 0.7 0.3 0.5 0.8 0.6 1.1 0.3 0.4 0.5 0.3 0.7 0.5 0.7 0.3 0.7 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.7 0.3 0.5 0.5 0.8 0.5 0.8 0.5 0.2 0.7 0.3 0.5 0.5 0.8 0.5 0.2 0.7 0.3 0.5 0.5 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Jul 0.6 0.3 0.9 0.9 0.9 0.8 0.7 0.9 0.6 0.6 0.6 1.1 1.1 1.1 1.1 0.7 0.8 0.5 1.4 1.0 1.1 1.2 0.5 0.6 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Aug 3.4 2.6 2.7 3.6 2.2 2.2 3.0 2.4 3.3 2.3 3.1 2.9 3.8 3.8 4.3 2.1 2.2 3.4 2.3 3.0 2.1 2.2 3.4 2.3 3.0 2.1 2.2 3.4 3.3 2.1 2.2 3.4 3.5 2.9 3.2 3.2 3.4 3.5 2.9 3.2 3.4 3.5 2.9 3.2 3.4 3.5 2.9 3.2 3.4 3.5 2.9 3.2 3.4 3.5 2.9 3.8 3.1 2.2 3.8 3.8 4.3 3.0 2.0 3.8 3.8 4.3 3.0 2.0 3.8 3.8 4.3 3.0 2.0 3.8 3.8 4.3 3.0 2.0 3.4 3.8 3.8 4.3 3.0 2.0 3.4 3.5 3.0 2.0 3.4 3.5 3.0 2.0 3.6 3.5 3.5 3.5 3.0 3.0 3.0 3.0 3.0 2.0 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	Sep 2.2 2.8 2.7 1.2 3.1 5.6 4.5 3.1 2.0 2.2 3.8 1.2 1.6 1.1 2.2 1.3 1.2 1.5 2.1 1.9 3.1 2.5 1.2 1.3 1.2 1.9 3.1 2.5 1.2 1.3 1.2 1.2 3.1 2.0 2.2 3.8 1.2 1.2 1.3 1.2 1.2 3.1 2.0 2.2 3.8 1.2 1.2 1.3 1.2 1.2 3.8 1.2 1.2 1.5 2.1 1.2 3.8 1.2 1.2 1.5 2.1 1.2 3.8 1.2 1.2 1.5 2.1 1.2 1.5 2.1 1.5 2.1 1.2 1.5 2.1 1.2 1.5 2.1 1.5 2.1 1.2 3.1 1.2 1.5 2.1 1.5 2.1 1.5 2.1 1.2 3.1 2.2 1.5 2.1 1.2 1.5 2.1 1.2 3.1 2.2 3.8 1.2 1.5 2.1 1.2 3.1 2.5 1.2 1.2 3.1 2.5 1.2 1.2 3.1 2.5 1.2 3.1 2.5 1.2 3.1 2.5 1.2 3.1 2.5 1.2 3.1 2.5 1.2 3.1 2.5 1.2 3.1 2.5 1.2 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.1 3.1 2.5 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.5 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 1.2 2.3 2.3 1.2 2.3 1.2 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2	Oct 0.6 0.5 0.5 0.6 0.1 0.4 0.3 0.3 0.3 0.4 0.4 0.3 0.4 0.3 0.4 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.5 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Nov 0.6 1.3 0.8 1.2 0.4 0.3 2.8 0.2 0.5 0.3 0.0 1.0 0.8 0.6 0.5 0.1 0.8 0.2 0.4 0.6 0.5 0.1 0.8 0.2 0.4 0.6 0.5 0.1 0.8 0.2 0.4 0.0 0.8 0.0 0.5 0.1 0.8 0.2 0.4 0.5 0.5 0.3 0.0 1.0 0.8 0.2 0.4 0.5 0.3 0.0 1.0 0.8 0.2 0.5 0.3 0.0 1.0 0.8 0.2 0.5 0.3 0.0 1.0 0.8 0.2 0.5 0.1 0.8 0.2 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.2 0.4 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.6 0.5 0.1 0.6 0.5 0.1 0.8 0.0 0.4 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.4 0.5 0.1 0.8 0.0 0.5 0.1 0.8 0.0 0.4 0.5 0.5 0.1 0.4 0.6 0.5 0.1 0.4 0.6 0.5 0.1 0.4 0.6 0.5 0.1 0.4 0.5 0.1 0.5 0.1 0.4 0.0 0.4 0.5 0.2 0.2 0.1 0.4 0.5 0.1 0.5 0.2 0.1 0.5 0.2 0.2 0.1 0.5 0.2 0.2 0.2 0.2 0.1 0.5 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Dec 2.7 2.0 2.2 1.6 1.4 0.5 0.8 1.0 1.7 2.0 2.3 2.0 1.2 1.8 0.6 2.0 1.9 2.1 0.8 1.2 1.3 1.8 1.0 1.1 0.8 1.2 1.3 1.8 1.0 1.1 0.7 0.6 1.0 1.1 2.1 2.1 0.8 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3

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	Month	lan	Feb	Mar	Anr	May	lun	hul	Διισ	San	Oct	Nov	Dec
Yr/	Dav	Jan	гер	Iviar	Ahi	Iviay	Jun	Jui	Aug	Seh	061	NUV	Dec
,	1	0.4	15	17	2.0	1.0	2.0	10	2.0	10	11	07	0.0
	1	Z.4	1.5	1./	2.0	1.Z	2.0	1.9	3.0	1.0	1.1	0.7	0.2
	2	0.5	1.6	1.3	0.3	2.4	0.9	1.5	2.0	1.3	1.2	0.8	0.2
	3	1.3	1.8	1.6	1.5	1.2	2.8	2.1	1.7	1.9	1.5	0.7	0.2
	1	1.5	1.0 0.0	1.0	<u>າ.ວ</u> ງງ	0.4	1.0	 	1.7	1.3 0.0	1.0	0.7	0.1
	- T	1.0	2.3	1.0	۷.3	Z.4	Ι.Ζ	2.0	1.0	2.3	Ι.Ζ	0.0	0.1
	5	1.0	2.2	1.9	2.0	2.1	2.7	3.0	1.6	1.6	2.4	1.6	0.1
	6	0.5	1.6	1.3	3.3	2.7	1.9	2.1	1.6	2.5	2.5	0.5	1.4
	7	05	25	10	13	2.8	10	1.8	11	25	22	0.1	12
	- /	0.5	2.5	1.0	1.5	2.0	1.0	1.0	1.1	2.5	2.2	0.1	1.2
	8	0.6	1.0	2.0	2.5	1.2	2.5	2./	1.4	1.5	1.4	0.3	3.0
	9	1.1	2.8	1.5	1.7	4.0	3.6	2.0	4.1	1.4	1.3	0.5	1.2
	10	10	39	12	31	18	32	17	13	16	17	02	13
	11	1.0	0.0	0.0	0.1	0.1	1.0	1.7	1.0	1.0	1.7	0.2	1.0
	- 11	1.5	2.8	0.8	2.2	2.1	1.0	1.0	1.2	0.7	1.0	0.4	1.1
	12	2.6	1.8	1.4	1.5	1.8	2.0	2.2	2.2	0.9	1.2	0.7	1.0
	13	1.3	2.4	1.5	1.5	2.0	1.7	1.0	2.1	1.1	1.0	2.2	0.7
	1/	1.0	0.0	1.6	1.4	4.0	26	0.1	10	1.2	1.5	1 2	0.5
	14	1.0	0.8	1.0	1.4	4.0	2.0	Z. I	1.0	1.3	1.0	1.3	0.5
ω	15	0.0	1.8	1.4	2.4	1.8	2.1	2.0	1.3	1.0	3.5	1.0	0.3
8	16	0.2	0.9	1.7	2.6	1.4	2.6	1.9	1.3	1.0	3.3	0.5	1.2
2	17	00	10	<u>^ 0</u>	22	10	10	1 2	17	12	12	0.6	11
	17	0.9	1.3	0.0	2.3	1.3	1.0	1.5	1./	1.5	1.2	0.0	1.1
	18	1.9	1.4	1.3	1.3	1.7	2.4	2.2	1.6	1.0	1.1	0.5	0.1
	19	0.7	0.6	1.3	0.4	2.0	2.8	1.5	2.2	3.0	1.2	0.1	1.0
	20	1 २	07	11	15	31	21	11	10	13	19	በና	24
	2.5	1.0	0.7	1.1	1.5	0.1	47	1.1	1.0	1.0	1.3	1.0	2.7
	<u> </u>	0.9	1.4	1.4	1./	2.7	1./	1.8	1.8	1.9	1.5	1.3	U./
	22	1.3	1.2	0.9	1.6	3.4	1.5	2.0	0.9	2.2	1.2	0.7	1.0
	23	22	23	10	18	12	20	13	1.5	3.0	0.5	0.3	09
	21	<u></u>	2.0	1.0	1.0	1.6	2.0	1.0	1.0	1.0	0.0	0.0	0.0
	24	U.2	2.1	1./	1.4	1.0	۷.3	1.0	1./	1.0	0.2	0.0	0.9
	25	0.6	1.4	1.5	1.3	2.3	1.5	1.8	0.9	1.4	0.5	0.2	0.9
	26	0.9	3.4	2.1	2.7	1.8	2.1	2.2	1.0	0.9	0.5	0.8	0.3
	27	0.1	2.6	1 /	1 /	1.0	10	10	1 /	0.5	0.7	0.1	10
	27	<u> </u>	2.0	1.4	1.4	1.0	1.0	1.9	1.4	0.5	0.7	0.1	1.0
	28	1.5	1.5	0.5	1.3	0.5	3.6	2.2	2.9	1.5	0.5	0.2	0.7
	29	1.2	0.7	2.0	1.4	0.6	3.4	2.3	1.6	2.1	2.5	1.1	0.5
	30	06		03	11	11	19	17	15	16	06	0.9	11
	21	1 6		2.0		1 5	1.0	0.C	1.0	1.0	0.0	0.0	0.7
	31	1.0		2.0		C.1		2.0	1.0		0.7		0.7
							_						_
	Month	lan	Eab	Мак	٨٥٢	Max	lun	ll	<b>A</b>	San	Oat	Nev	Dee
Yr/	Month Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Month Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Month Day 1	Jan 0.4	Feb 0.4	Mar 0.5	Apr 0.8	May 0.5	Jun 2.5	Jul 2.1	Aug 2.5	Sep 2.3	Oct 2.3	Nov 0.9	Dec 0.7
Yr/	Month Day 1 2	Jan 0.4 0.7	Feb 0.4 0.3	Mar 0.5 0.3	Apr 0.8 0.7	May 0.5 1.3	Jun 2.5 0.1	Jul 2.1 1.5	Aug 2.5 1.9	Sep 2.3 0.6	Oct 2.3 0.9	Nov 0.9 0.5	Dec 0.7 0.9
Yr/	Month Day 1 2 3	Jan 0.4 0.7 1.1	Feb 0.4 0.3 0.6	Mar 0.5 0.3 0.3	Apr 0.8 0.7 1.2	May 0.5 1.3 0.9	Jun 2.5 0.1 1.2	Jul 2.1 1.5 2.9	Aug 2.5 1.9 2.5	Sep 2.3 0.6 2.5	Oct 2.3 0.9 1.4	Nov 0.9 0.5 0.6	Dec 0.7 0.9 0.8
Yr/	Month Day 1 2 3 4	Jan 0.4 0.7 1.1	Feb 0.4 0.3 0.6	Mar 0.5 0.3 0.3	Apr 0.8 0.7 1.2	May 0.5 1.3 0.9	Jun 2.5 0.1 1.2	Jul 2.1 1.5 2.9	Aug 2.5 1.9 2.5	Sep 2.3 0.6 2.5	Oct 2.3 0.9 1.4	Nov 0.9 0.5 0.6	Dec 0.7 0.9 0.8
Yr/	Month Day 1 2 3 4	Jan 0.4 0.7 1.1 0.5	Feb 0.4 0.3 0.6 1.4	Mar 0.5 0.3 0.3 0.2	Apr 0.8 0.7 1.2 1.0	May 0.5 1.3 0.9 1.9	Jun 2.5 0.1 1.2 0.9	Jul 2.1 1.5 2.9 2.0	Aug 2.5 1.9 2.5 3.1	Sep 2.3 0.6 2.5 2.4	Oct 2.3 0.9 1.4 0.7	Nov 0.9 0.5 0.6 0.4	Dec 0.7 0.9 0.8 0.8
Yr/	Month Day 1 2 3 4 5	Jan 0.4 0.7 1.1 0.5 0.4	Feb 0.4 0.3 0.6 1.4 0.7	Mar 0.5 0.3 0.3 0.2 0.2	Apr 0.8 0.7 1.2 1.0 1.3	May 0.5 1.3 0.9 1.9 2.7	Jun 2.5 0.1 1.2 0.9 3.2	Jul 2.1 1.5 2.9 2.0 2.2	Aug 2.5 1.9 2.5 3.1 2.3	Sep 2.3 0.6 2.5 2.4 1.2	Oct 2.3 0.9 1.4 0.7 0.2	Nov 0.9 0.5 0.6 0.4 0.6	Dec 0.7 0.9 0.8 0.8 0.9
Yr/	Month Day 1 2 3 4 5 6	Jan 0.4 0.7 1.1 0.5 0.4 0.1	Feb 0.4 0.3 0.6 1.4 0.7 1.2	Mar 0.5 0.3 0.3 0.2 0.2 0.4	Apr 0.8 0.7 1.2 1.0 1.3 2.3	May 0.5 1.3 0.9 1.9 2.7 1.1	Jun 2.5 0.1 1.2 0.9 3.2 2.6	Jul 2.1 1.5 2.9 2.0 2.2 2.0	Aug 2.5 1.9 2.5 3.1 2.3 2.7	Sep 2.3 0.6 2.5 2.4 1.2 3.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1	Nov 0.9 0.5 0.6 0.4 0.6 0.6	Dec 0.7 0.9 0.8 0.8 0.9 1.4
Yr/	Month Day 1 2 3 4 5 6 7	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4	Mar 0.5 0.3 0.2 0.2 0.4 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1 0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3 2	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4	Nov 0.9 0.5 0.6 0.4 0.6 0.6 0.8	Dec 0.7 0.9 0.8 0.8 0.9 1.4 1 1
Yr/	Month Day 1 2 3 4 5 6 7 0	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4	Mar 0.5 0.3 0.2 0.2 0.2 0.4 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4	Nov 0.9 0.5 0.6 0.4 0.6 0.6 0.8	Dec 0.7 0.9 0.8 0.8 0.9 1.4 1.1
Yr/	Month Day 1 2 3 4 5 6 7 8	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.4	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9	May 0.5 1.3 0.9 2.7 1.1 1.0 0.9	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.3	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.4	Nov 0.9 0.5 0.6 0.4 0.6 0.6 0.8 1.1	Dec 0.7 0.9 0.8 0.8 0.9 1.4 1.1 0.7
Yr/	Month Day 1 2 3 4 5 6 7 8 9	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.1	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9	Nov 0.9 0.5 0.6 0.4 0.6 0.6 0.8 1.1 1.2	Dec 0.7 0.9 0.8 0.8 0.9 1.4 1.1 0.7 0.6
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.1 0.1	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.1 0.1 0.1	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1	May 0.5 1.3 0.9 2.7 1.1 1.0 0.9 2.0 1.3 1 7	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2	Nov 0.9 0.5 0.6 0.4 0.6 0.6 0.8 1.1 1.2 1.3 1.2	Dec 0.7 0.9 0.8 0.8 0.9 1.4 1.1 0.7 0.6 0.7
Yr/	Month (Day 1 2 3 4 5 6 7 8 9 10 11	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.1 0.1 0.3	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.4	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.2	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.2	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0	Nov 0.9 0.5 0.6 0.4 0.6 0.6 0.8 1.1 1.2 1.3 1.2	Dec 0.7 0.9 0.8 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2
Yr/	Month Day 1 2 3 4 5 6 7 8 9 9 10 11 11	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.1 0.1 0.1 0.3 0.9	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.8 1.3	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9	Nov 0.9 0.5 0.6 0.4 0.6 0.6 0.8 1.1 1.2 1.3 1.2 1.1	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2
Yr/	Month (Day 1 2 3 4 5 6 7 8 9 10 11 12 13	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.1 0.1 0.3 0.9 0.4	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.1 0.1 0.1 0.3 0.9 0.4 0.8	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2 0.2	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2 2.2	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9	Nov 0.9 0.5 0.6 0.6 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8	Dec 0.7 0.9 0.8 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.4 0.1 0.1 0.3 0.9 0.9 0.4 0.8 1 6	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.2 0.2 0.2 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 0.3 1.2 0.3 1.2 0.4 0.4 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2	Jun 2.5 0.1 1.2 0.9 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2 2.2 2.2 2.4	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0 1	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9	Nov 0.9 0.5 0.6 0.6 0.6 0.6 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2
Yr/ 60	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 12	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.1 0.1 0.1 0.3 0.9 0.4 0.8 1.6 0.8	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2 0.2 0.2 0.2	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.2 1.0 1.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.5 1.1 0.9 0.3 1.1 0.3 1.2 1.5 0.4 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.8 1.2 1.2	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 0.2	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.8	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2
5002 Fr	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.1 0.3 0.9 0.4 0.8 1.6 0.1	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2 0.2 0.1 0.2	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.3	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2
2009 X	Month (Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.1 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.2	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.2 1.3 1.5	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0
2009 J. J.	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.6	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.5 0.3 0.3 0.2 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4	May 0.5 1.3 0.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.2 1.5 1.5	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.1 0.9 1.2 0.8 1.0 1.4	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.1 1.6 0.1 1.6 0.1 1.6 0.4 0.1 0.5 0.4 0.1 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.5 0.4 0.1 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.5 1.1 0.5 1.2 1.4 0.7 1.2 1.4 0.7 1.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.5 1.5	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 2.2	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.2	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 9	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 2.5 1.1	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.1 0.5 1.3 0.5 0.1 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.2 1.3 1.5 1.5	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.7 0.7	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 2.3 2.9 0.1 1.5 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.2	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.2 0.2 1.0 0.9 0.7 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.7 0.6 0.7 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.5 1.1 1.3	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.7 0.8 2.5	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.6
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.6 1.4 2.5 1.2	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.1 0.2 0.2 0.4 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5 2.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.1 1.3 0.9	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 2.5 3.9 2.5 3.9 2.5 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.1	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5 1.2 1.4	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.5 0.3 0.5 0.2 0.4 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.2 0.4 1.2 1.0 1.3 1.0 2.9 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.1 2.9 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 1.5 2.6 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.1 2.9 1.5 2.6 1.4 2.1 0.4 2.1 1.5 2.6 1.4 2.2 0.4 2.1 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 2.1 1.5 2.6 1.4 2.2 0.4 2.1 0.4 2.1 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 2.1 0.4 2.1 0.3 1.1 2.2 0.4 2.1 0.4 2.2 1.4 2.2 0.4 2.1 0.4 2.2 0.4 2.6 1.4 2.2 0.4 2.1 0.4 2.6 1.4 2.2 0.4 1.4 2.2 0.4 1.4 2.2 0.4 1.4 2.2 0.4 1.4 2.2 0.4 1.4 2.2 0.4 1.4 1.5 2.6 1.4 1.4 2.2 0.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.5 1.5 1.1 1.3 0.9 2.9	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.7 0.8 2.5 3.3 3.9	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 2.3 2.9 0.1 3.0	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 1.1	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.4 1.7 1.0	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.7 0.7 1.1 0.7 1.3 0.7 0.7 0.7 0.7 0.7 0.6 0.8 0.8 0.8 0.5 0.8 0.8 0.8 0.8 0.8 0.9 0.5 0.6 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 0.9 0.7 0.5 1.4 0.7 0.6 0.7 0.5 0.7 0.5 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.7 0.6 0.7 0.2 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 0.2 1.0 0.9 0.2 0.2 0.2 1.0 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5 1.2 1.2 1.2	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.2 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.2 0.4 0.2 0.4 0.1 0.2 0.2 0.4 0.1 0.2 0.2 0.4 0.1 0.2 0.2 0.4 0.1 0.1 0.2 0.2 0.2 0.4 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.6 1.4 2.2 0.4 2.1 0.3 1.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 2.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.5 1.5 2.6 1.4 2.5 1.5 2.6 1.4 2.5 1.5 2.6 1.4 2.5 1.5 2.6 1.4 2.5 1.5 2.6 1.4 2.5 1.5 2.6 1.4 2.5 1.5 2.6 1.4 2.5 1.5 2.5 1.5 2.6 1.4 2.5 1.5 2.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.0 2.0 1.3 1.7 1.3 1.2 1.5 1.5 1.1 1.5 1.5 1.1 1.5 1.5	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.8 2.5 3.3 3.9 2.5	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 2.3 2.9 0.1	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.1 0.2	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 1.1 1.2 1.3 0.6 0.6 0.8 0.5 0.6 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5 1.2 1.4 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.1	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 2.1 0.9 1.5 2.6 1.4 2.2 0.4 2.1 2.9 1.5 2.6 1.4 2.2 0.4 2.1 0.9 1.5 2.6 1.4 2.2 0.4 2.1 0.3 1.1 2.2 0.3 1.1 2.2 0.3 1.1 2.2 0.4 2.1 0.3 1.1 2.2 0.4 2.1 0.3 1.1 2.2 0.4 2.2 0.4 2.1 0.9 1.5 2.6 1.4 2.2 0.4 2.1 0.4 2.2 0.4 2.2 0.4 2.1 0.5 2.6 1.4 2.2 0.4 2.1 0.4 2.2 0.4 2.2 0.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.2 2.1 0.4 2.2 0.4 1.2 2.2 0.4 1.2 2.2 0.4 1.2 2.2 0.4 1.2 2.1 0.4 1.2 2.2 0.4 1.2 2.2 0.4 1.2 2.2 0.4 1.2 2.2 0.4 1.2 2.2 1.2 1.2 1.2 1.2 1.2 1.2	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 3.0 1.3	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 1.1 1.6	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.1 0.8 0.7	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 2.5 0.2
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.6 1.6 0.6 1.4 2.5 1.2 1.4 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 1.3	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.2 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.2 1.1 2.2 1.1 2.2 1.1 2.2 1.1 2.2 1.1 2.2 1.1 2.2 1.1 2.2 1.1 2.2 1.2 1	May 0.5 1.3 0.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	Jul 2.1 1.5 2.9 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 3.0 1.3 1.6	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 1.1 1.6 1.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6 0.8 1.1 1.2 1.1 0.6 0.8 0.5 1.1 0.6 0.8 0.5 0.8 0.1 0.6 0.8 0.8 0.5 0.6 0.8 0.8 0.5 0.8 0.1 0.6 0.8 0.8 0.5 0.6 0.8 0.8 0.5 0.8 0.5 0.8 0.5 0.8 0.5 0.6 0.8 0.5 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.6 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 2.5 0.2 1.0
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5 1.2 1.2 1.4 0.5 0.7 0.5 0.7 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.5 0.4 0.1 0.5 0.4 0.1 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 0.1 3 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5 0.5 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 1.0 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.2 0.4 2.2 0.4 1.5 2.6 1.4 1.9 1.2 0.4 2.2 0.4 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.2 0.4 2.2 0.4 1.5 2.6 1.4 1.9 1.2 0.4 2.2 0.4 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.2 0.4 1.9 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.5 2.6 1.4 1.9 1.5 2.1 0.4 1.9 1.5 2.1 1.2 0.2 0.2 1.2 0.2 0.2 1.2 0.2 0.2 1.2 0.2 0.2 1.2 0.2 0.2 1.2 0.2 0.2 1.2 0.2 0.2 1.2 0.2 0.2 1.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.7 0.8 2.5 3.3 3.9 2.2 2.2 2.8 2.5	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 2.3 2.9 0.1 1.5 3.0 1.6 1.7 2.5 3.0 1.6 1.7 2.5 3.0 1.6 1.7 2.5 3.0 1.6 1.7 2.5 3.0 1.6 1.7 2.5 3.0 1.7 2.5 3.0 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 1.8 1.5 2.3 2.9 0.1 1.8 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 1.5 2.5 3.0 1.8 1.5 1.7 2.5 3.0 1.8 1.5 1.8 1.5 1.8 1.5 1.5 1.5 1.7 1.8 1.5 1.5 1.7 1.8 1.5 1.5 1.7 1.7 1.8 1.5 1.5 1.7 1.7 1.8 1.5 1.7 1.7 1.7 1.7 1.8 1.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 2.1 3.3 2.1 1.1 2.0	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 2.4 1.6 1.5 2.3	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.4 1.7 1.0 1.1 0.9 1.2 0.8 1.0 0.9 1.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.7 0.2 0.1 0.4 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.9 0.1 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.6 0.8 0.5 1.1 1.4 1.3 0.6 0.6 1.1 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 0.9 0.7 0.6 1.0 0.9 0.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 25 26	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5 1.2 1.4 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 1.3 0.2 0.6 0.3 1.3 0.4 0.5 0.4 0.7 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.1 0.2 0.2 0.1 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 1.2 0.5 2.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.4 2.5 0.4 1.5 2.6 1.5 2.6 1.5 2.6 1.5 2.5 2.6 1.5 2.5 2.6 1.5 2.5 0.4 1.5 2.5 0.4 1.5 2.6 1.5 2.6 1.5 2.5 0.4 1.5 2.6 1.5 2.6 1.5 2.5 2.6 1.5 2.5 0.4 1.5 2.5 0.5 2.5 0.5 1.5 2.6 1.5 2.5 0.4 1.5 2.5 0.5 2.5 0.5 1.5 2.6 1.5 2.5 0.5 1.5 2.6 1.5 2.5 0.5 1.5 2.5 0.5 1.5 2.5 1.5 2.5 0.5 1.5 2.5 1.5 1.5 2.5 1.5 1.5 2.5 1.5 1.5 1.5 1.5 2.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.4 1.7 2.9 2.2 1.1 1.3 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.2 1.5 1.1 1.2 1.5 1.1 1.3 1.5 1.1 1.5 1.1 1.2 1.5 1.1 1.2 1.5 1.1 1.2 1.5 1.1 1.2 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.2 1.5 1.1 1.3 1.5 1.1 1.2 1.5 1.1 1.2 1.5 1.1 1.2 1.5 1.1 1.2 2.9 2.4 1.7 2.9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.2 2.2	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.8 2.5 3.3 3.9 2.2 2.8 2.5 3.2	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.6 1.5 2.3 2.9 0.1 1.6 1.5 2.0 1.6 1.7 2.5 2.0 1.6 1.7 2.5 2.0 1.6 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.5 3.0 1.3 1.6 1.3 1.6 1.7 1.8 0.4 1.3 1.6 1.3 1.6 1.7 1.8 1.8 1.9 2.5 3.0 1.3 1.6 1.8 1.8 1.9 2.5 3.0 1.3 1.6 1.8 1.8 1.6 1.3 1.6 1.8 1.6 1.3 1.6 1.8 1.6 1.3 1.6 1.7 1.8 1.6 1.3 1.6 1.7 1.8 1.6 1.8 1.6 1.3 1.6 1.7 1.8 1.6 1.8 1.6 1.8 1.6 1.8 1.6 1.8 1.6 1.8 1.6 1.8 1.6 1.8 1.6 1.8 1.6 1.8 1.8 1.6 1.8 1.8 1.8 1.6 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1 1.5	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 1.1 1.6 1.5 1.5 1.1 1.6 1.5 1.1 1.6 1.5 1.1 1.6 1.5 1.1 1.6 1.5 1.1 1.6 1.5 1.1 1.1 1.5 1.1 1.5 1.1 1.5 1.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3 1.0 0.9	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6 1.1 1.4	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 0.9 0.2 1.0 0.9 0.2 1.0 0.9 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 20 21 22 23 24 25 26 26 27	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.1 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 1.3 0.1 0.4 0.6 0.5 0.5 0.3 0.2 0.6 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.5 0.3 0.2 0.4 0.1 0.1 1.1 0.1 0.1 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 1.2 0.4 1.2 0.4 2.2 0.4 1.2 0.4 1.2 0.5 2.6 1.4 2.2 0.4 1.5 2.6 1.4 2.2 0.5 5 5 5 5 5 5 5 5 5 5 5 5 5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.0 2.0 2.0 1.3 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.5	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 2.3 2.9 0.1 1.5 3.0 1.5 2.0 1.6 1.7 2.5 3.0 1.5 2.5 3.0 1.3 1.6 1.7 1.8 3.0 1.3 1.6 1.7 1.8 3.0 1.3 1.6 1.7 1.8 3.0 1.3 1.6 1.7 1.8 3.0 1.3 1.6 1.7 1.8 3.0 1.3 1.6 1.7 1.8 1.5 3.0 1.3 1.6 1.7 1.8 1.5 3.0 1.3 1.6 1.7 1.8 1.6 1.7 1.8 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1 2.0 1.5	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 1.1 1.6 1.5 2.3 1.4 1.5 1.7 2.8 0.8 2.0 2.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3 1.0 0.6	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6 1.1 1.4 1.4 1.4	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 2.5 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.5 0.2 0.2 0.2 1.0 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5 1.2 1.4 0.5 0.7 0.5 0.5 0.3	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 1.3 0.1 0.4 0.3	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.2 0.1 0.5 1.3 0.5 0.1 0.2 0.1 0.5 0.1 0.5 0.1 0.5 0.1 0.2 0.1 0.5 0.1 0.5 0.1 0.2 0.1 0.5 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 1.2 0.2 0.5 0.2	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 1.5 1.1 1.3 0.9 1.9 2.0 1.3 1.5 1.1 1.3 0.9 2.9 2.4 1.3 1.3 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 0.9 2.9 2.4 1.3 1.3 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 0.9 2.9 2.0 1.3 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.1 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.3 1.5 1.3 1.3 1.5 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1 2.0 1.5 2.0 1.5 2.1 2.3 2.7 2.5 2.7 2.5 2.7 2.3 3.2 1.8 3.1 2.9 2.0 1.5 1.8 3.1 2.0 1.5 1.8 3.1 2.6 4.0 2.3 2.7 2.3 3.1 2.0 1.5 1.8 3.1 2.6 4.0 2.3 3.5 2.1 2.1 3.5 2.1 2.3 3.5 2.1 2.1 3.5 2.1 2.3 3.5 2.1 2.1 3.5 2.1 2.1 3.5 2.1 2.1 2.3 3.5 2.1 2.1 3.5 2.1 2.1 2.1 3.5 2.1 2.1 2.1 3.5 2.1 3.5 2.1 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 2.1 3.5 2.1 3.5 2.1 2.1 3.5 2.1 3.5 2.1 3.5 2.1 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 1.1 1.6 1.5 2.3 1.4 1.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3 1.0 0.6 0.9	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6 1.1 1.4 1.4 1.4 1.4	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 1.0 0.9 0.2 1.0 0.9 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 0.2 1.0 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27 28	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.4 0.1 0.3 0.9 0.4 0.6 1.6 0.6 1.6 0.6 1.6 0.6 1.6 0.6 1.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 1.3 0.1 0.4 0.4 0.3 0.4	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.5 1.3 0.5 0.5 0.1 0.2 0.1 0.5 0.1 0.5 0.1 0.2 0.1 0.5 0.1 0.2 0.1 0.5 0.1 0.2 0.1 0.5 0.1 0.2 0.1 0.2 0.1 0.5 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.5 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.5 2.6 1.4 2.2 0.4 1.9 1.5 2.6 1.4 2.2 0.4 1.9 1.5 2.6 1.4 2.2 0.4 1.5 2.5 0.2 0.5 0.5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 1.9 2.0 1.3 0.9 2.9 2.4 1.7 1.9 2.0 1.3 0.9 2.9 2.9 1.1 1.3 0.9 2.9 1.3 1.5 1.1 1.3 0.9 2.9 1.3 1.5 1.1 1.3 1.5 1.1 1.3 0.9 2.9 2.0 1.3 1.5 1.1 1.3 1.5 1.1 1.3 0.9 2.9 2.0 1.3 1.5 1.1 1.3 1.5 1.1 1.3 0.9 2.9 2.9 2.9 1.3 1.5 1.1 1.3 0.9 2.9 2.9 2.9 2.9 1.3 0.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.7 0.8 2.5 3.3 3.9 2.2 2.8 2.5 2.0 2.8 2.5	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 1.8 1.6 1.7 2.5 3.0 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 2.1 3.3 2.1 1.1 2.0 1.5 2.0 1.4	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 2.4 1.6 1.5 2.3 1.4 1.5 0.3 0.8 2.5 1.0 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3 1.0 0.6 0.9 0.9	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.5 1.1 1.4 1.4 1.4 1.4 0.4	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.7 0.6 1.0 0.9 0.7 0.6 1.0 0.9 0.2 1.0 1.0 0.5 0.2 1.0
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 25 26 27 28 29	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.8 1.6 0.1 1.6 0.6 1.4 2.5 1.2 1.4 0.5 0.7 0.5 0.5 0.3 0.3 1.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 1.3 0.2 0.6 0.3 1.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.4 0.5 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.2 0.4 0.3 0.2 0.6 0.3 0.2 0.4 0.3 0.2 0.6 0.3 0.2 0.4 0.4 0.3 0.2 0.6 0.3 0.2 0.4 0.4 0.3 0.2 0.6 0.3 0.2 0.4 0.4 0.5 0.3 0.2 0.6 0.3 0.2 0.4 0.4 0.5 0.3 0.2 0.4 0.4 0.5 0.3 0.2 0.4 0.4 0.5 0.3 0.2 0.4 0.4 0.4 0.5 0.3 0.4 0.4 0.4 0.5 0.3 0.4 0.4 0.4 0.4 0.5 0.3 0.4 0.4 0.4 0.4 0.4 0.5 0.3 0.4 0.4 0.4 0.4 0.4 0.5 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.1 0.5 0.1 0.5 1.3 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 0.4 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 0.3 1.1 2.9 0.5 2.6 1.4 2.2 0.4 1.2 2.1 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 1.3 1.7 1.3 1.5 1.1 1.3 0.9 2.9 2.4 1.7 1.0 0.9 2.0 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 1.3 0.9 2.9 2.9 2.4 1.7 1.3 0.9 1.3 1.5 1.1 1.3 0.9 2.9 2.4 1.7 1.3 0.9 2.9 2.4 1.7 1.3 0.9 2.9 2.4 1.7 1.3 0.9 2.9 2.4 1.7 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.0 1.3 1.5 1.1 1.3 0.9 2.9 2.4 1.3 0.9 2.0 0.9 2.0 0.3 1.5 1.1 1.3 0.9 2.9 2.0 1.3 0.9 2.9 2.0 1.3 0.9 2.9 2.0 1.3 0.9 2.0 0.3 1.7 1.3 0.9 2.9 2.0 1.3 0.9 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.7 0.8 2.5 3.3 3.9 2.2 2.8 2.5 2.0 2.5 2.0	Jul 2.1 1.5 2.9 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.5 3.0 1.3 1.6 1.7 2.5 3.0 1.3 1.8 1.8 2.9 2.5 3.0 1.3 1.8 1.8 2.9 2.5 3.0 1.3 1.8 1.8 2.9 2.5 3.0 1.3 1.8 1.8 2.8 2.9 2.5 3.0 1.3 1.8 1.8 1.8 2.9 2.5 3.0 1.3 1.8 1.8 2.8 2.9 2.5 3.0 1.8 1.8 1.8 2.8 2.8 2.9 2.5 3.0 1.8 1.8 2.8 2.8 2.9 2.5 3.0 1.8 1.8 2.8 2.8 2.8 2.9 2.5 3.0 2.8 2.8 2.8 2.8 2.9 2.5 3.0 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1 2.0 1.5 1.7 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.1 2.1 3.2 1.8 3.1 2.0 1.5 1.8 3.1 2.0 1.5 1.8 3.1 2.0 1.5 1.8 3.1 2.0 1.5 1.8 3.1 2.0 1.5 1.8 3.1 2.0 1.5 1.8 3.1 2.0 1.5 1.5 1.8 3.1 2.0 1.5 1.5 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1 3.3 2.1 1.1 3.3 2.1 1.1 3.3 2.1 1.1 3.3 2.1 1.1 3.3 2.1 1.1 3.3 2.1 1.1 3.3 2.1 1.1 1.1 1.0 1.5 1.1 1.1 1.1 1.0 1.5 1.1 1.1 1.1 1.1 1.0 1.5 2.1 1.1 1.1 1.1 1.0 1.5 2.0 1.5 2.1 1.1 1.1 1.1 2.0 1.5 2.1 1.1 1.1 1.1 2.0 1.5 2.0 1.5 2.1 1.1 1.1 1.1 2.0 1.4 1.5 2.0 1.5 2.1 1.1 1.1 2.0 1.4 1.5 2.0 1.5 2.0 1.5 2.1 1.1 1.5 2.0 1.4 1.4 1.5 2.0 1.4 1.4 1.5 2.0 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 2.4 1.6 2.0 1.1 1.6 1.5 2.3 1.4 1.5 2.3 1.4 1.5 2.3 1.4 1.5 2.5 2.4 1.5 2.5 1.0 2.5 1.0 1.8 1.5 1.7 2.8 0.8 2.0 2.4 1.5 1.5 1.7 2.8 0.8 2.0 2.4 1.5 1.5 1.5 1.7 2.8 0.8 2.0 2.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3 1.0 0.6 0.0 9 0.7	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6 1.1 1.4 1.4 1.4 1.4 1.4 1.2	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.1 0.9 0.2 1.2 1.0 0.9 0.2 1.0 0.9 0.2 1.0 0.9 0.2 1.0 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.7 0.6 0.7 0.2 0.2 1.0 0.9 0.7 0.2 0.2 1.0 0.9 0.7 0.2 0.2 1.0 0.7 0.2 0.2 1.0 0.7 0.2 0.2 1.0 0.7 0.2 0.2 1.0 0.7 0.2 0.2 1.0 0.7 0.2 0.2 1.0 0.9 0.2 1.0 0.7 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 0.2 1.0 0.2 1.0 0.2 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.2 1.0 0.5 0.2 1.0 0.2 1.0 0.5 0.2 1.0 0.2 1.0 0.5 0.2 1.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 22	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.3 0.9 0.4 0.1 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.1 0.3 0.9 0.4 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.1 0.5 0.3 0.2 0.6 0.3 1.3 0.1 0.4 0.3 0.4 0.4 0.3 0.4 0.5 0.3 0.4 0.4 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.3 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.1 0.2 0.1 0.5 1.3 0.5 2.1 0.5 0.1 0.5 0.1 0.5 1.3 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 0.4 2.1 0.9 0.3 1.1 2.0 0.4 2.1 0.4 2.2 0.4 1.9 1.2 2.1 0.4 2.1 0.4 2.2 0.4 1.9 1.2 2.1 0.4 2.1 0.4 2.2 0.4 1.9 1.2 2.1 0.2 0.5 0.2 0.5 0.2 0.5 0.4 0.5 0.2 0.5 0.2 0.5 0.4 0.5 0.2 0.5 0.2 0.5 0.5 0.4 0.5 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.2 1.2 1.3 1.5 1.5 1.1 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.3 0.9 2.0 1.3 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.5 1.1 1.3 0.9 2.9 2.4 1.3 0.4 0.4 0.5 1.3 0.5 1.3 0.9 2.9 2.0 1.3 0.4 0.5 1.3 0.5 1.3 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.8 1.3 3.2 2.2 4.0 2.2 1.0 0.7 0.7 0.8 2.5 3.3 3.9 2.2 2.8 2.5 2.0 2.8 2.5 2.0 2.8 2.5 2.0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 2.5 3.0 1.3 1.6 1.7 1.8 1.8 2.9 2.5 3.0 1.3 1.6 1.7 1.8 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.8 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.8 1.8 2.9 2.5 3.0 1.8 1.8 2.9 2.5 3.0 1.8 1.8 2.9 2.5 3.0 1.8 1.8 2.9 2.5 3.0 1.8 1.8 2.9 2.5 3.0 1.8 1.8 2.9 2.8 3.0 1.8 1.8 2.9 2.8 3.0 1.8 1.8 2.9 2.8 3.0 1.8 3.8 2.9 2.8 3.0 1.8 3.8 2.9 2.8 3.0 1.8 3.8 2.9 2.8 3.0 1.8 3.8 2.9 2.8 3.0 2.8 3.0 2.8 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1 2.0 1.5 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.1 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 2.1 3.5 2.0 1.5 2.1 3.5 2.0 1.5 2.1 3.5 2.0 1.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.1 3.5 2.0 1.5 3.5 2.0 1.5 3.5 2.0 1.5 3.5 2.0 1.5 3.5 2.0 1.5 2.0 1.5 2.0 1.5 2.0 1.5 2.0 1.5 2.0 1.5 2.0 1.5 2.0 1.5 2.0 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.4 1.5 2.0 1.5 2.0 1.4 1.5 2.0 1.4 1.5 1.5 2.0 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 2.4 1.6 2.0 1.1 1.6 1.5 2.3 1.4 1.5 0.3 2.4 2.5 2.5 2.4 1.2 0.3 0.8 2.5 1.0 1.8 1.4 1.5 0.3 0.8 2.5 1.0 1.8 1.4 1.5 1.7 2.8 0.8 2.0 2.4 1.5 0.3 0.8 2.5 1.0 1.8 1.4 1.5 1.7 2.8 0.8 2.0 2.4 1.5 1.7 2.8 0.8 2.0 2.4 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 2.4 1.6 2.0 2.3 1.4 1.5 2.3 1.4 1.5 0.3 2.5 2.4 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 2.4 1.5 2.3 1.4 1.5 0.3 2.5 2.5 2.4 1.5 2.5 2.5 2.4 1.5 2.5 2.5 2.5 2.6 2.6 2.6 2.0 1.1 1.5 2.3 1.4 1.5 0.3 2.5 2.3 1.4 1.5 0.3 2.5 2.3 1.4 1.5 0.3 2.5 2.3 1.4 1.5 0.3 2.5 0.3 2.5 0.3 2.5 0.3 0.5 2.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3 1.0 0.6 0.9 0.9 0.9	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6 0.8 0.5 1.1 1.2 1.3 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.3 1.2 1.1 0.6 0.6 0.8 0.5 1.1 1.2 1.3 1.2 1.1 0.6 0.6 0.8 0.5 1.1 1.2 1.3 1.2 1.1 0.6 0.6 0.8 0.5 1.1 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.7 0.6 0.6 0.7 0.6 0.6 0.7 0.6 0.4 0.7 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.9 0.2 0.2 1.0 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0
2009	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Jan 0.4 0.7 1.1 0.5 0.4 0.1 0.4 0.1 0.4 0.1 0.4 0.4 0.1 0.4 0.4 0.4 0.1 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Feb 0.4 0.3 0.6 1.4 0.7 1.2 1.4 1.3 1.4 1.3 1.5 1.3 2.9 3.5 1.1 1.2 1.1 0.5 0.3 0.2 0.6 0.3 1.3 0.2 0.6 0.3 0.1 0.4 0.4 0.5 0.3 0.2 0.6 0.3 0.2 0.6 0.3 0.4 0.4 0.5 0.3 0.2 0.6 0.3 0.4 0.5 0.3 0.2 0.6 0.3 0.4 0.5 0.3 0.2 0.6 0.3 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Mar 0.5 0.3 0.2 0.2 0.4 0.1 0.1 1.1 0.2 0.1 0.5 1.3 0.5 0.1 0.5 0.5 0.1 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.1 0.5 0.1 0.5 0.5 0.5 0.1 0.5 0.5 0.5 0.1 0.5 0.5 0.5 0.1 0.5 0.5 0.5 0.1 0.5 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Apr 0.8 0.7 1.2 1.0 1.3 2.3 1.0 2.9 1.8 0.4 2.1 0.9 0.3 1.1 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 1.2 0.4 1.2 0.4 1.2 0.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 1.5 2.6 1.4 2.9 0.3 1.1 2.9 0.3 1.1 2.9 0.3 1.1 2.9 0.3 1.1 2.9 0.4 2.1 0.4 2.9 1.5 2.6 1.4 2.2 0.4 1.9 1.2 2.1 0.4 2.1 0.4 2.1 0.4 2.1 0.4 2.2 0.4 1.9 1.2 2.1 0.4 1.9 1.2 0.2 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	May 0.5 1.3 0.9 1.9 2.7 1.1 1.0 0.9 2.0 1.3 1.7 1.3 1.8 1.2 1.2 1.3 1.5 1.5 1.1 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 2.9 2.0 1.3 0.9 2.9 2.4 1.7 1.3 0.9 2.9 2.4 1.7 1.3 0.9 2.9 2.4 1.3 0.9 2.9 2.4 1.3 0.9 2.9 2.4 1.3 0.9 2.9 2.4 1.3 0.9 2.9 2.4 1.3 0.9 2.9 2.4 1.3 0.9 2.9 2.4 1.3 0.9 2.9 2.0 1.3 0.9 2.9 2.4 1.3 0.9 2.0 1.3 1.5 1.1 1.3 0.9 2.9 2.4 1.3 0.4 0.3 2.3	Jun 2.5 0.1 1.2 0.9 3.2 2.6 1.0 0.9 2.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	Jul 2.1 1.5 2.9 2.0 2.2 2.0 1.6 2.4 1.7 2.5 2.0 1.9 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 0.1 1.8 0.4 1.5 2.3 2.9 2.5 3.0 1.3 1.6 1.7 2.5 2.0 1.8 0.4 1.5 2.3 2.9 2.5 3.0 1.3 1.6 1.7 2.5 2.0 0.1 1.8 0.4 1.5 2.3 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.5 3.0 1.3 1.8 2.9 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	Aug 2.5 1.9 2.5 3.1 2.3 2.7 3.2 1.8 2.9 2.0 1.5 1.8 3.1 2.6 4.0 2.3 1.7 2.3 3.5 2.1 2.1 3.3 2.1 1.1 2.0 1.5 1.7 2.3 3.5 2.1 1.7 2.3 3.5 2.1 1.1 1.1 2.0 1.5 1.4 1.4 1.4 1.4	Sep 2.3 0.6 2.5 2.4 1.2 3.5 0.3 0.8 2.5 1.0 1.8 1.4 1.3 1.5 1.7 2.8 0.8 2.0 2.4 1.6 2.0 2.4 1.5 1.7 2.8 0.8 2.0 2.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Oct 2.3 0.9 1.4 0.7 0.2 0.1 0.4 0.7 1.9 2.2 1.0 0.9 1.1 0.9 1.2 0.8 1.0 1.4 1.7 1.0 1.1 0.8 0.7 1.3 1.0 0.6 0.9 0.7 1.1	Nov 0.9 0.5 0.6 0.4 0.6 0.8 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 0.7 1.1 1.8 1.3 0.6 0.7 0.6 0.8 0.5 1.1 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.3 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.1 0.6 0.8 0.5 1.1 1.2 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.8 0.5 1.1 1.2 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.8 0.5 1.1 1.1 0.6 0.7 0.6 0.7 0.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Dec 0.7 0.9 0.8 0.9 1.4 1.1 0.7 0.6 0.7 0.2 0.2 1.0 0.9 0.2 0.2 1.1 0.9 0.2 0.2 1.0 0.9 0.2 1.0 0.9 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 1.0 0.5 0.2 0.2 1.0 0.5 0.2 0.2 0.2 1.0 0.5 0.2 0.2 0.2 1.0 0.5 0.3 0.5 0.3 0.5 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

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	Month	Jan	Feb	Mar	Apr	Mav	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Day	Jun	100	mai	, (p)	may	oun	our	,		000		000
	1	1.1	1.2	0.2	1.1	1.6	1.9	1.9	1.4	1.0	0.6	1.1	0.6
	2	1.0	0.8	1.5	1.6	1.5	3.8	3.1	1.5	1.2	0.5	0.2	0.2
	3	0.5	0.5	0.5	1.3	1.4	2.4	2.3	2.1	0.2	0.6	0.7	0.9
	4	1.1	0.5	0.7	1.1	0.9	3.1	2.7	2.4	1.1	1.2	2.0	0.9
	5	1.6	0.8	0.7	1.2	1.9	2.4	4.3	2.7	2.7	0.5	0.9	1.1
	6	1.1	1./	1./	1.8	1./	1.3	2.5	2.6	1./	0.2	0.8	0.5
	/	0.8	1.4	0.7	1.5	1.8	1.7	2.9	1.7	1.0	0.9	1.0	1.2
	8	0.9	3.2	1./	1.8	1.2	2.4	2.1	0.3	3.4	1.0	0.8	0.5
	9	1.3	3.9	0.5	1.1	1.8	2.1	2.1	2.4	2.5	0.5	0.9	2.3
	10	0.8	3.5	1.2	1.4	0.9	3.0	2.1	1.6	1./	1.2	1.1	0.6
	11	1.5	1.9	1.3	1.4	1.5	1./	2.2	1.5	1.3	1.1	0.7	1./
	12	1.5	0.9	0.7	1.5	1.6	1.6	3.2	2./	1.3	2.1	0.8	1.2
	13	2.3	1./	1.3	1.3	0.6	1.9	3.1	2.2	1.4	1.0	0.9	0.2
	14	1.8	1.9	0.5	1.3	1.8	2.9	2.2	1.1	0.7	1.3	0.7	0.5
은	10	1.5	2.4	1.1	2.1	1.2	3.3	1.9	1.7	1.5	0.3	0.2	0.2
20	10	1.9	1.0	2.1	1.8	2.6	1.0	1./	2.3	0.5	0.7	0.3	1.9
	10	1.4	1.0	0.7	1.4	2.5	2.2	1.0	1.3	0.9	1.0	0.3	2.4
	10	1./	1.9	0.4	2.5	1./	3./	1.5	0.2	3.4	0.5	0.3	1.4
	19	1./	0.2	1.4	1.4	1.4	1.0	4.4	0.2	1.3	0.1	0.2	0.5
	20	1.1	0.5	1.0	2.2	1./	0.5	2.5	1.5	1.0	0.6	0.4	0.6
	21	1.3	0.7	1.0	3.0	1.1	2.5	1.9	1.0	1.5	0.8	0.4	1.0
	22	1.3	1.1	1.3	2.2	3.6	2.1	0.9	1.4	1.2	2.8	0.2	0.1
	23	1.1	1.8	1.1	1.0	1.3	2.0	0.9	1.7	2.8	0.8	0.8	0.1
	24	1.0	0.5	1.2	1.5	1.4	2.2	1.3	2.3	1.0	2.1	0.4	1.4
	20	1.2	0.0	0.0	1.0	1.1	3.Z	0.0	3.0	1.0	1.0	1.1	0.7
	20	0.0	0.7	1.0	1.3	1.8	2.1	2.1	2.9	2.5	0.9	1.3	0.5
	21	0.2	0.0	1.2	1.0	3.Z	2.3	3.Z	2.1	1.2	1.2	1.5	0.4
	20	0.2	0.5	1.5	1.0	2.3	Z.1	3.1	2.0	2.0	1.3	0.7	0.8
	29	2.0		1.4	1.8	1.3	3.1	3.Z	2.4	1./	1.1	0.5	0.2
	21	1.0		1.2	1.7	1.3	0.3	1.3	1.2	1.3	0.7	0.3	1./
	31	1.0		0.3		3.0		1.1	Z.3		0.5		1.0
<	Month												
	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Month Day 1	Jan 2.2	Feb	Mar 23	Apr	May	Jun 28	Jul 2.6	Aug	Sep	Oct	Nov	Dec
Yr/	Month Day 1	Jan 2.2	Feb <u>1.7</u>	Mar 2.3	Apr 2.1	May 1.9	Jun 2.8	Jul 2.6	Aug 0.8	Sep <u>1.0</u> 0.7	Oct 1.1	Nov 0.8	Dec 0.5
Yr/	Month Day 1 2 3	Jan <u>2.2</u> 1.5 1 2	Feb 1.7 1.8 1.0	Mar 2.3 1.3	Apr 2.1 3.2 4.0	May 1.9 1.7	Jun 2.8 2.3 1 2	Jul 2.6 0.6	Aug 0.8 1.4 2.0	Sep 1.0 0.7	Oct 1.1 1.3	Nov 0.8 0.6	Dec 0.5 0.6
Yr/	Month Day 1 2 3 4	Jan 2.2 1.5 1.2 1.5	Feb 1.7 1.8 1.0 0.2	Mar 2.3 1.3 0.5 0.7	Apr 2.1 3.2 4.0	May 1.9 1.7 1.3 2 0	Jun 2.8 2.3 1.2 1 0	Jul 2.6 0.6 2.9 0.6	Aug 0.8 1.4 2.0 2.3	Sep 1.0 0.7 0.8 1.6	Oct 1.1 1.3 1.3 1.4	Nov 0.8 0.6 0.6	Dec 0.5 0.6 1.0 0.4
Yr/	Month Day 1 2 3 4 5	Jan 2.2 1.5 1.2 1.5 1.7	Feb 1.7 1.8 1.0 0.2 1.9	Mar 2.3 1.3 0.5 0.7 1.1	Apr 2.1 3.2 4.0 1.7 3.6	May 1.9 1.7 1.3 2.0 1.6	Jun 2.8 2.3 1.2 1.0 1 7	Jul 2.6 0.6 2.9 0.6 1.5	Aug 0.8 1.4 2.0 2.3 0.9	Sep 1.0 0.7 0.8 1.6 0.7	Oct 1.1 1.3 1.3 1.4 1.0	Nov 0.8 0.6 0.6 0.8 0.6	Dec 0.5 0.6 1.0 0.4 0.3
Yr/	Month Day 1 2 3 4 5 6	Jan 2.2 1.5 1.2 1.5 1.7 1.7	Feb 1.7 1.8 1.0 0.2 1.9 2.1	Mar 2.3 1.3 0.5 0.7 1.1	Apr 2.1 3.2 4.0 1.7 3.6 2.7	May 1.9 1.7 1.3 2.0 1.6 3.3	Jun 2.8 2.3 1.2 1.0 1.7 2.1	Jul 2.6 0.6 2.9 0.6 1.5 1.3	Aug 0.8 1.4 2.0 2.3 0.9 1.6	Sep 1.0 0.7 0.8 1.6 0.7 0.7	Oct 1.1 1.3 1.3 1.4 1.0 0.8	Nov 0.8 0.6 0.6 0.8 0.6 1.3	Dec 0.5 0.6 1.0 0.4 0.3 0.6
Yr/	Month Day 1 2 3 4 5 6 7	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.1	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3	Oct 1.1 1.3 1.3 1.4 1.0 0.8 1.2	Nov 0.8 0.6 0.6 0.8 0.6 1.3 1.0	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8
Yr/	Month Day 1 2 3 4 5 6 7 8	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8	Oct 1.1 1.3 1.3 1.4 1.0 0.8 1.2 0.3	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7
Yr/	Month Day 1 2 3 4 5 6 7 8 9	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.1 1.6 1.5 3.0	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3	Oct 1.1 1.3 1.3 1.4 1.0 0.8 1.2 0.3 0.7	Nov 0.8 0.6 0.6 1.3 1.0 0.9 0.6	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6
<u>Yr/</u>	Month Day 1 2 3 4 5 6 7 8 9 10	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5 3.0 2.5	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5	Oct 1.1 1.3 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8	Nov 0.8 0.6 0.6 1.3 1.0 0.9 0.6 0.9	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.1 1.6 1.5 3.0 2.5 0.7	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5 0.4	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0
<u>Yr/</u>	Month Day 1 2 3 4 5 6 7 8 9 10 11 12	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5 3.0 2.5 0.7 1.1	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5 0.4 1.3	Oct 1.1 1.3 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9
Yr/	Month Day 1 2 3 4 5 6 7 8 9 10 11 12 13	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.7 0.4 0.6	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7	Jul 2.6 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8	Oct 1.1 1.3 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 1.2	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6
Yr/	Month Day 1 2 3 4 5 6 6 7 8 9 10 11 11 12 13 14	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.8	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.8	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6
Yr/	Month Day 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.7 0.4 0.6 1.2 1.7	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 1.6 2.0 2.7 2.5 2.3 3.2	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 2.8 1.2 1.0 0.7	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7	Jul 2.6 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.7 1.5 2.4 1.3 1.3 1.3	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5 0.4 1.8 0.8 1.4	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 0.8 0.8 0.8	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2
011	Month Day 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.7 0.4 0.6 1.2 1.7 1.6	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 2.8 1.2 1.0 0.7 4.2	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3	Jul 2.6 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 1.2 0.9 0.8 1.6 1.2 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.8 0.9 1.2	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2 1.9
2011	Month Day 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.7 0.4 0.6 1.2 1.7 1.6 0.8	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7	Mar 2.3 1.3 0.5 0.7 1.1 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 2.9 1.2 1.8 2.1 2.0	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7	Jul 2.6 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 2.4 1.5 1.6 1.6	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1	Sep 1.0 0.7 0.8 1.6 0.7 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.4 1.8 0.8 1.4 1.1 0.7	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 1.2 0.9 0.8 0.8 0.8 0.9	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.8 0.8 0.9 1.2 0.9	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2 1.9 2.4
2011 X	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.7 0.7 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 2.9 1.2 1.8 2.1 2.0 1.9	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 3.5	Jul 2.6 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 2.4 1.5 1.6 1.6 1.1	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.1	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.1 0.7 0.9	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.8 0.9 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.8 0.9 1.2 0.9 0.3	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2 1.9 2.4 1.4
2011	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.7 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.9 2.9 2.9 2.9 1.2 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.9 2.9 2.9 2.9 2.9 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 3.5 1.8	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 2.4 1.5 1.6 1.6 1.1 1.0	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.1 1.4 0.9	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.3 1.8 0.7 0.9 1.9	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.8 0.9 0.8 0.8 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.8 0.9 1.2 0.9 0.3 0.6	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2 1.9 2.4 1.4 0.5
2011 × 1	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 0.7	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.9 2.0 1.9 1.2 1.2 1.2 1.3 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.7 1.3 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 3.5 1.8 2.1	Jul 2.6 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.1 1.4 0.9 2.6	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.1 0.7 0.9 1.9 0.8	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.8 0.9 1.2 0.9 0.3 0.6 0.7	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.2 1.9 2.4 1.4 0.5 0.6
2011	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 0.7 0.5	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.2 1.2 1.2 1.2 1.3 2.1 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.7 0.7 1.5 2.9 2.9 2.9 2.9 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 0.5 0.7 1.3 1.7 3.5 1.8 2.1 1.1	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.1 1.0 1.9 1.4	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.3 1.1 1.1 1.1 1.4 0.9 2.6 0.3	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.3 1.8 0.4 1.3 0.5 0.4 0.5 0.4 1.3 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 1.3 0.5	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0
2011 JA	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 1.8	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 2.2	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 2.9 2.8 1.2 1.0 0.7 0.7 4.2 2.5 1.7 1.7 0.7 0.5 1.6	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 3.3 2.7 0.7 1.5 3.3 2.7 0.7 1.5 3.3 2.7 0.7 1.5 3.3 2.7 0.7 1.5 3.3 2.7 0.7 1.5 3.3 2.7 0.7 1.5 2.7 0.7 1.5 3.3 2.7 0.7 1.5 2.7 0.7 1.5 3.3 2.9 1.2 1.8 2.1 1.2 1.8 2.1 1.9 1.2 1.8 2.1 2.0 1.2 1.8 2.1 2.0 1.2 1.5 3.5 2.7 1.5 3.5 2.7 1.5 3.5 2.7 1.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 3.5 1.8 2.1 1.1 1.0	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 1.0	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.3 0.8	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.2	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.7 0.8 0.8 0.9 1.7 0.8 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.1	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.1
2011 Zour Zour Zour Zour Zour Zour Zour Zour	Month Day 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2 0.5	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 1.8 0.7	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 2.2 1.7	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 0.7 0.5 1.6 1.2	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 1.2 1.8 2.1 2.0 1.9 1.2 1.8 2.1 2.0 1.9 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.9 1.2 1.9 2.0 1.9 2.0 1.2 1.9 2.0 1.9 2.1 2.0 1.9 2.1 2.0 1.2 1.9 2.0 1.9 2.0 1.9 2.0 1.2 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.6 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.6 1.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 0.5 0.7 1.3 1.7 0.5 0.5 0.7 1.3 1.7 0.5 0.7 0.5 0.8 1.7 0.5 0.7 0.5 0.8 1.7 0.5 0.8 0.8 0.5 0.8 0.5 0.8 0.8 0.8 0.8 0.5 0.7 0.7 0.8 0.8 0.5 0.7 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 1.0 2.2	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.3 0.8 1.3	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.4 1.1 0.7 0.9 1.9 0.8 1.3 0.5 0.4 1.4 1.4 1.1 0.7 0.9 1.8 1.4 1.4 1.1 0.7 0.9 1.8 1.8 0.8 1.3 0.5 0.4 1.3 0.8 1.3 0.5 0.4 1.3 0.8 1.3 0.5 0.4 1.3 0.8 1.3 0.8 1.3 0.5 0.4 1.3 0.8 1.4 1.1 0.7 0.9 1.9 0.9 1.9 0.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.2 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.2 1.8 0.8 1.8 1.8 0.8 1.4 1.1 0.7 0.9 0.8 1.8 1.8 0.8 1.8 1.8 0.8 1.8 1.8 0.8 1.8 0.8 1.8 0.8 1.8 0.8 1.8 0.8 1.8 0.8 0.8 1.8 0.8 0.8 1.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 1.2 0.9 0.8 1.2 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.7 0.8 0.8 0.9 1.7 0.8 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.1 0.3	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.1 0.1 0.1 0.1 0.1
2011 Zoli Zoli Zoli Zoli Zoli Zoli Zoli Zoli	Month Day 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2 0.5 0.7	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 1.9 2.5 1.8 1.9 2.5 1.8 1.7 1.2 1.9 1.2 1.9 1.2 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 2.2 1.7 1.6	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 0.7 0.5 1.6 1.2 1.7	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.2 1.8 2.1 1.0 1.9 5.5 2.1 1.7 2.1 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 1.2 1.8 2.1 1.0 1.9 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.6 1.7 1.0 1.7 0.6 1.7 1.0 1.7 2.8 1.2 1.0 1.7 2.1 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.7 0.6 1.7 1.7 0.6 1.7 1.7 0.6 1.7 1.3 2.8 1.2 1.7 0.6 1.7 1.3 2.8 1.2 1.7 0.6 1.7 1.3 2.8 1.2 1.7 0.6 1.7 1.3 2.8 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 1.3 1.7 0.5 0.7 1.3 1.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.3 1.7 1.3 1.7 0.5 0.7 1.3 1.7 1.3 1.7 1.3 1.7 0.5 0.7 1.3 1.7 1.1 1.3 1.7 1.3 1.7 1.3 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 1.1 1.0 1.9 1.4 1.0 1.2 2.2 2.2 2.2	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.3 0.8 1.3 2.4	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 0.5 0.4 0.7 0.9 0.9 1.9 0.8 0.8 0.5 0.4 0.7 0.9 0.9 1.9 0.8 0.8 0.4 0.7 0.9 0.9 1.9 0.8 0.4 0.7 0.9 0.9 0.9 1.9 0.8 0.4 0.7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 1.3 0.5 1.3 2.0 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.7 0.8 0.8 0.9 1.7 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.1 0.3 0.3	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.1 0.1 1.4
2011	Month Day 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 0.5 0.7 1.0	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 1.7 1.8 1.9 2.5 1.8 0.7 1.7 1.6	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 2.2 1.7 1.6 1.4	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 0.7 0.5 1.6 1.2 1.7 2.0	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.2 1.8 2.1 1.0 1.9 5.5 2.1 1.7 5.2	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.6 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.6 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.6 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 0.5 0.7 1.3 0.5 0.7 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.5 0.7 0.7 0.5 0.7 0.7 0.5 0.7 0.5 0.7 0.7 0.7 0.5 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.2 2.2 2.2 2.2 2.2 2.2	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.3 0.8 1.3 2.4 1.3 1.3 1.3 1.3 1.4 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 1.4	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 1.3 0.5 1.3 2.0 0.8 0.9	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.7 0.8 0.8 0.9 1.2 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.1 0.3 0.3 0.6	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.1 0.1 1.4 0.7
2011	Month Day 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Jan 2.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 0.5 0.7 1.0 1.3	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 1.7 1.2 1.8 1.9 2.1 1.2 2.3 3.2 1.7 1.2 1.3 3.2 1.7 1.6 1.6 1.6 1.6 1.6 2.0 2.7 2.5 2.3 3.2 1.7 1.2 1.3 3.2 1.7 1.2 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 2.2 1.7 1.6 1.4 1.2	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 1.7 0.7 0.5 1.6 1.2 1.7 2.0 2.2	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.2 1.8 2.1 2.0 1.9 5.5 2.1 1.7 5.2 1.7	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.3 1.7 0.6 1.7 0.6 1.7 1.3 2.8 1.2 1.0 1.7 2.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 1.5 1.6 1.1 1.0 1.9 1.4 1.0 1.1 1.0 1.1 1.3 0.9 1.0 1.5 1.3 0.9 1.0 1.5 1.3 0.9 1.0 1.5 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.1 1.3 0.9 1.0 1.5 1.4 2.4 1.6 1.6 1.1 1.1 1.0 1.5 1.4 2.4 1.6 1.1 1.6 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.1 1.6 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.1	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.3 0.8 1.3 2.4 1.3 1.3 0.9 2.6 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 1.4 1.0 1.4 1.0 1.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 1.3 0.5 1.3 2.0 0.8 0.9 0.9 0.8 0.9 0.8 0.9 0.9 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.7 0.8 0.9 1.7 0.8 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.1 0.3 0.6 0.3	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
2011 JA	Month Day 1 2 3 4 5 6 7 8 9 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 0.5 0.7 1.0 1.2 0.5 0.7 1.2 0.7 1.2 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 0.5 0.7 1.2 2.3 1.1 1.6 0.5 0.7 1.2 0.7 0.4 0.6 0.2 1.1 1.6 0.5 0.7 0.7 1.2 1.6 0.8 0.2 0.7 1.2 0.3 0.7 1.2 1.7 1.6 0.8 0.2 0.7 0.4 1.1 1.6 0.5 0.7 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.3 2.1 1.3 2.1	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.1 1.8 1.9 2.1 1.8 1.9 2.1 1.2 1.8 1.9 2.1 1.2 1.8 1.0 1.9 2.1 1.2 2.2 1.6 1.6 1.6 2.0 2.7 2.3 3.2 1.7 1.2 1.8 1.7 1.2 2.3 3.2 1.7 1.2 1.8 1.7 1.2 1.8 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 1.5 2.9 2.1 1.5 2.9 2.1 1.5 3.0 1.7 1.6 1.7 1.1 1.2 2.2 1.7 1.5 3.0 1.7 1.1 1.2 2.2 1.7 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 2.9 2.1 1.7 1.5 2.9 2.1 1.7 1.5 2.9 2.1 1.7 1.5 2.9 2.1 1.7 1.5 3.0 2.1 1.7 1.5 3.0 2.1 1.7 1.5 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 1.7 0.7 0.5 1.6 1.2 1.7 2.0 2.2 1.3	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.9 2.0 1.9 2.0 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 3.5 1.8 2.1 1.1 1.0 0.8 0.4 0.3 2.0 2.1	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 2.4 1.5 1.6 1.1 1.0 1.9 1.4 2.4 1.5 1.6 1.1 1.0 1.5 1.4 2.2 1.9 1.2 1.2 1.2 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.1 1.5 1.3 0.9 1.0 1.5 1.4 2.4 1.6 1.6 1.1 1.1 1.1 1.2 2.2 1.9 1.0 1.5 1.4 2.4 1.6 1.6 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.3 0.8 1.3 2.4 1.3 0.9 2.6 0.9 1.6 0.7 1.7 1.5 2.4 1.1 1.1 1.4 0.9 2.5 0.9 1.6 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.5 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.9 1.6 1.1 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.9 1.6 1.1 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.9 2.6 0.9 1.6 1.1 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.0 0.8 1.1 1.1 1.4 0.9 2.6 0.0 0.8 1.3 0.8 1.3 2.4 1.3 0.8 1.3 0.8 1.3 0.8 1.3 0.8 1.3 0.8 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.3 0.5 0.4 1.3 0.5 0.4 1.3 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.2 1.1 1.4 1.1 0.7 0.9 1.9 0.8 0.8 1.2 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.3 1.3 1.3 1.4 1.1 1.4 1.1 1.4 1.3 1.3 1.3 1.4 1.1 1.4 1.1 1.4 1.1 1.4 1.3 1.3 1.3 1.3 1.4 1.1 1.4 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.6 1.2 1.2 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 1.3 0.5 1.3 0.5 1.3 0.0 0.8 0.9 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.9 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.7 0.8 0.9 1.7 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.9 1.2 0.9 0.3 0.6 0.3 0.5	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.4 0.9 0.6 0.2 1.9 2.4 1.0 0.5 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 0.5 0.6 0.2 0.5 0.6 0.2 0.6 0.5 0.6 0.2 0.5 0.6 0.5 0.6 0.2 0.5 0.6 0.5 0.6 0.2 0.5 0.6 0.5 0.6 0.5 0.6 0.2 0.5 0.6 0.1 0.1 0.1 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
2011 JA	Month Day 1 2 3 4 5 6 7 8 9 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 0.5 0.7 1.0 1.2 0.5 0.7 1.2 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 0.5 0.7 1.2 2.3 1.1 1.6 0.5 0.7 1.2 2.3 1.1 1.6 0.5 0.7 1.2 0.3 0.7 1.2 0.7 0.4 0.6 0.2 1.2 1.7 1.6 0.8 0.2 0.7 0.4 1.6 0.5 0.7 0.7 1.2 0.3 0.7 1.2 1.6 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.7 1.2 0.7 1.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.1 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.1 1.6 1.6 2.0 2.7 2.5 2.3 3.2 1.7 1.2 1.8 1.7 1.2 1.8 1.6 1.6 1.6 1.6 2.0 2.7 2.5 2.3 3.2 1.7 1.2 1.8 1.7 1.2 1.8 1.7 1.2 1.8 1.7 1.2 1.8 1.7 1.2 1.8 1.7 1.2 1.8 1.9 2.5 1.7 1.2 1.8 1.9 2.5 1.8 1.9 2.5 1.7 1.2 1.8 1.9 2.5 1.7 1.2 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.9 2.5 1.8 1.7 1.2 1.8 1.7 1.2 1.8 1.7 1.7 1.6 1.6 1.0 0.7 1.7 1.7 1.6 1.6 1.0 0.7 1.7 1.7 1.6 1.6 1.0 0.7 1.7 1.7 1.7 1.6 1.6 1.0 0.7 1.7 1.7 1.6 1.0 0.7 1.7 1.6 1.0 0.7 1.7 1.6 1.0 0.7 1.7 1.6 1.0 0.7 1.7 1.6 1.0 0.7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 1.5 2.9 2.1 1.5 2.9 2.1 1.5 3.0 1.7 1.6 1.7 1.6 1.7 1.1 1.2 2.2 1.7 1.6 1.4 1.2 1.3 2.2 1.7 1.6 1.4 1.2 1.2 2.2 1.7 1.5 2.9 2.1 1.1 2.2 1.3 2.2 1.3 2.2 1.3 2.2 1.3 1.3 2.5 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.2 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 1.7 0.7 0.5 1.6 1.2 1.7 2.0 2.2 1.3 2.3	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 5.5 2.1 1.7 5.2 1.7 5.2 1.7 5.2 1.7 5.2 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.9 1.9 5.5 2.1 1.9 1.9 5.5 2.1 1.9 1.9 1.9 1.9 1.2 1.9 1.9 1.9 1.2 1.9 1.9 1.9 1.0 1.9 2.0 1.9 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 3.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.2 1.7 5.5 1.7 5.2 5.2 1.7 5.2 1.7 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 0.5 0.7 1.8 2.1 1.1 1.0 0.8 0.4 0.3 2.0 2.1 2.4	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.6 1.1 1.0 1.9 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 2.2 1.1 1.1 1.4 1.0 1.9 1.4 1.5 1.3 0.9 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2011	Month Day 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 20 21 22 23 24 25 26 27 28 29	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2 0.5 0.7 1.0 1.2 0.5 0.7 1.2 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 0.4 0.6 0.8 0.2 2.3 1.1 1.6 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.2 0.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2 0.7 1.2 0.7 1.6 0.8 0.7 1.2 0.7 1.6 0.8 0.2 0.7 1.1 1.6 0.5 0.7 1.0 1.3 2.1 2.3 1.3	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.7 1.6 1.6 1.0 0.7 1.7 1.6 1.6 1.0 0.7 1.7 1.6 1.6 1.0 0.7 1.7 1.2 1.8 1.7 1.2 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 1.5 2.9 2.1 1.2 1.2 1.4	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 1.7 0.7 0.7 0.5 1.6 1.2 1.7 2.5 1.7 1.7 0.7 0.7 0.7 2.5 1.7 1.7 0.7 0.7 0.7 0.5 1.6 1.2 1.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 2.8 2.9 1.2 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.8 2.1 2.0 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.5 2.7 1.5 2.7 2.8 2.9 1.2 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.0 1.9 2.1 1.7 2.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.5 2.7 1.9 2.0 1.0 1.9 2.1 1.7 5.5 2.1 1.7 5.5 2.1 1.7 5.2 1.7 2.0 1.7 2.0 1.7 2.5 2.1 1.7 2.5 2.1 1.7 2.2 1.7 2.0	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 3.5 1.8 2.1 1.1 1.0 0.8 0.4 0.3 2.0 2.1 2.4 1.3	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.6 1.1 1.0 1.9 1.4 2.4 1.5 1.6 1.1 1.0 1.9 1.4 2.2 1.9 1.2 1.4 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.5 1.4 2.4 1.0 1.5 1.4 2.4 1.5 1.6 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 1.0 1.1 1.0 1.9 1.4 2.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.1 1.0 1.4 1.0 1.4 1.0 1.1 1.4 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.4 1.0	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.3 0.8 1.3 2.4 1.3 1.3 1.1 1.1 1.4 0.9 2.6 0.9 1.6 1.1 1.5 2.4 1.5 1.2 1.5 1.2	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 1.4 1.0 1.3 1.4 1.5	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.2 1.2 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 1.3 0.5 1.3 0.5 1.3 0.0 0.8 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.7 0.8 0.9 1.7 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.9 1.2 0.9 0.3 0.6 0.3 0.5 0.4 0.6	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 1.9 0.6 0.2 0.6 0.2 0.6 0.2 0.5 0.6 0.2 0.6 0.2 0.5 0.6 0.2 0.5 0.6 0.2 0.5 0.6 0.5 0.6 0.2 0.5 0.6 0.5 0.6 0.2 0.5 0.6 0.5 0.6 0.2 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.0 0.5 0.6 0.1 0.1 0.1 0.5 0.4 0.8 0.2 0.5 0.4 0.5 0.4 0.8 0.2 0.5 0.4 0.8 0.2 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
2011	Month Day 1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 20 21 22 23 24 25 26 27 28 29 30	Jan 2.2 1.5 1.2 1.5 1.7 1.2 0.9 0.3 0.7 1.2 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2 0.5 0.7 0.4 0.6 1.2 1.7 1.6 0.8 0.2 2.3 1.1 1.6 1.2 0.5 0.7 1.2 0.5 0.7 1.2 0.5 0.3 0.7 0.4 0.5 1.2 0.7 0.4 0.5 1.2 0.5 0.7 0.4 0.5 0.5 0.7 0.4 0.5 0.5 0.7 0.4 0.5 0.5 0.7 0.4 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.7 0.5 0.5 0.5 0.7 0.5 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Feb 1.7 1.8 1.0 0.2 1.9 2.1 1.2 2.2 1.6 1.6 2.0 2.7 2.5 2.3 3.2 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.7 1.2 2.3 1.7 1.2 1.8 1.7 1.2 2.3 1.7 1.2 1.8 1.9 2.5 2.3 1.7 1.2 1.8 1.9 2.5 1.7 1.2 1.8 1.9 2.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	Mar 2.3 1.3 0.5 0.7 1.1 1.6 1.5 3.0 2.5 0.7 1.1 1.2 2.2 1.9 1.8 1.0 1.7 1.5 2.9 2.1 1.5 2.9 2.1 1.5 2.9 2.1 1.5 3.0 1.7 1.6 1.4 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.1 1.1 1.2 2.2 1.9 1.1 1.1 1.2 2.2 1.9 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 3.0 1.7 1.1 1.2 2.2 1.9 1.5 2.9 2.1 1.5 2.9 2.1 1.5 2.9 2.1 1.5 2.9 2.1 1.5 2.9 2.1 1.5 2.9 2.1 1.5 3.0 1.7 1.5 2.9 2.1 1.6 1.4 1.6 1.5 2.9 2.1 1.6 1.6 1.4 1.6 1.5 2.9 2.1 1.6 1.6 1.6 1.6 1.7 1.5 2.9 2.1 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1	Apr 2.1 3.2 4.0 1.7 3.6 2.7 1.3 1.8 2.6 1.0 2.9 2.8 1.2 1.0 0.7 4.2 2.5 1.7 1.7 0.7 0.7 0.5 1.6 1.2 1.7 0.7 0.7 0.5 1.6 1.2 1.7 0.7 0.7 0.7 0.5 1.6 1.2 1.7 0.7 0.7 0.7 0.7 0.5 1.6 1.2 1.7 0.7 0.7 0.7 0.7 0.5 1.6 1.2 1.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0	May 1.9 1.7 1.3 2.0 1.6 3.3 2.7 0.7 1.5 2.7 2.8 2.9 2.9 1.2 1.8 2.1 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.1 1.7 1.5 2.1 1.7 1.5 2.1 1.7 1.5 2.7 2.8 2.9 1.2 1.5 2.1 1.5 2.1 1.5 2.7 2.8 2.9 1.2 1.5 2.1 1.5 2.7 2.8 2.9 1.2 1.5 2.1 1.5 2.7 2.8 2.9 1.2 1.5 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.0 1.9 2.1 2.1 2.0 1.9 2.0 1.9 2.1 2.1 2.0 1.9 2.1 1.9 2.1 1.7 5.5 2.1 1.7 2.1 1.9 2.1 1.7 2.1 1.9 2.1 1.7 2.1 1.7 2.1 1.7 2.1 1.7 2.1 1.7 2.1 1.7 2.1 1.7 2.2 1.7 2.1 1.7 2.1 1.7 2.2 1.7 1.7 2.1 1.7 2.1 1.7 2.1 1.7 2.2 1.7 1.7 2.0 1.7 1.7 2.0 1.7 1.7 2.0 1.7 1.7 2.0 1.7 1.7 2.0 1.7 1.7 2.0 1.7 1.7 2.0 1.9 1.7 1.7 2.0 1.7 1.7 2.0 1.9 1.7 1.7 1.7 2.0 1.9 1.9 1.9 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	Jun 2.8 2.3 1.2 1.0 1.7 2.1 1.2 1.7 0.6 1.7 1.3 2.8 1.7 0.5 0.7 1.3 1.7 3.5 1.8 2.1 1.1 1.0 0.8 0.4 0.3 2.0 2.1 2.4 1.3 1.7	Jul 2.6 0.6 2.9 0.6 1.5 1.3 2.2 1.9 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.0 1.9 1.4 2.4 1.5 1.6 1.1 1.0 1.9 1.4 2.2 1.1 1.1 1.4 1.0 2.2 2.2 1.1 1.1 1.4 1.0 0.6 1.5 1.3 0.9 1.5 1.3 0.9 1.0 1.5 1.4 2.4 1.5 1.6 1.6 1.1 1.6 1.1 1.6 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.5 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 2.4 1.1 1.0 1.9 1.4 1.0 1.9 1.4 1.0 1.2 2.2 2.2 1.1 1.1 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.5 1.4 1.0 1.1 1.0 1.4 1.0 1.2 2.2 2.2 1.1 1.1 1.1 1.0 0.9 1.4 1.0 0.9 1.4 1.0 0.9 1.4 1.0 0.9 1.4 1.0 0.9 1.4 1.0 0.9 1.4 1.0 0.9 1.4 1.0 0.9 1.4 1.0 0.0 2.2 2.2 2.2 1.1 1.1 1.4 1.0 0.6 1.1 1.1 1.1 1.1 1.4 1.0 0.6 1.1 1.1 1.1 1.1 1.4 1.0 0.6 1.1 1.1 1.1 1.4 1.0 0.6 1.1 1.1 1.1 1.4 1.0 0.6 1.1 1.1 1.4 1.0 0.6 1.4 1.0 0.6 1.1 1.1 1.4 1.0 0.6 1.4 1.0 0.6 1.4 1.0 0.6 1.4 1.0 0.6 1.4 1.0 0.6 1.4 1.0 1.4 1.0 0.6 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.1 1.1 1.1 1.1 1.4 1.1 1.4 1.4	Aug 0.8 1.4 2.0 2.3 0.9 1.6 1.1 1.8 0.7 1.7 1.5 2.4 1.3 1.3 1.3 1.3 1.1 1.4 0.9 2.6 0.3 0.8 1.3 1.4 0.9 2.6 0.3 0.9 1.6 1.1 1.1 1.4 0.7 1.5 2.4 1.3 1.3 1.3 1.3 1.3 1.3 1.1 1.1	Sep 1.0 0.7 0.8 1.6 0.7 0.3 0.8 1.3 0.5 0.4 1.3 1.8 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 0.7 0.9 1.9 0.8 1.4 1.1 1.4 1.0 1.3 1.4 1.5 1.5	Oct 1.1 1.3 1.4 1.0 0.8 1.2 0.3 0.7 0.8 1.2 0.9 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Nov 0.8 0.6 0.8 0.6 1.3 1.0 0.9 0.6 0.9 1.9 1.7 0.8 0.9 1.2 0.9 0.3 0.6 0.7 0.8 0.1 0.3 0.6 0.7 0.8 0.1 0.9 0.3 0.6 0.7 0.8 0.1 0.9 0.3 0.6 0.7 0.8 0.1 0.9 0.5 0.4 0.6 0.6 0.6 0.9 0.3 0.6 0.7 0.8 0.6 0.9 0.3 0.6 0.7 0.8 0.1 0.6 0.9 0.3 0.6 0.7 0.8 0.1 0.8 0.6 0.9 0.3 0.6 0.7 0.8 0.1 0.8 0.7 0.8 0.1 0.8 0.1 0.5 0.4 0.6 0.5 0.4 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.5 0.4 0.6 0.6 0.6 0.5 0.4 0.6 0.6 0.6 0.6 0.6 0.6 0.5 0.4 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	Dec 0.5 0.6 1.0 0.4 0.3 0.6 0.8 0.7 0.6 1.6 1.0 0.9 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.6 0.2 1.9 2.4 1.4 0.5 0.6 1.0 0.6 0.2 1.9 0.6 0.0 0.6 0.2 0.6 0.0 0.6 0.2 0.6 0.0 0.6 0.2 0.6 0.0 0.6 0.2 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.6 0.0 0.0

$\sum$	Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Yr/	Day								0				
	1	0.5	1.3	0.9	0.7	1.1	3.2	0.6	1.9	1.5	0.6	0.7	1.5
	2	0.6	1.4	1.1	1.1	0.5	1.9	1.8	2.5	1.0	1.0	0.9	0.5
	3	1.0	0.9	1.0	0.8	0.6	2.0	2.1	2.9	1.0	1.0	1.4	0.5
	4	0.7	1.2	2.2	1.1	0.7	1.9	2.5	2.1	1.3	0.8	0.9	1.2
	5	0.3	2.1	1.6	1.1	1.4	1.9	3.3	1.2	1.1	0.7	1.2	1.4
	6	0.8	2.2	1.4	1.2	0.6	2.1	1.8	0.6	1.1	1.4	0.7	1.0
	7	0.8	2.4	3.2	1.0	0.9	1.1	3.1	0.9	1.3	1.3	0.8	1.1
	8	0.1	1.7	1.5	1.1	0.6	0.8	1.0	1.2	2.8	1.0	0.7	0.8
	9	1.1	1.9	1.0	1.1	1.8	2.0	0.9	1.6	0.8	1.1	1.3	0.6
	10	0.8	1.4	0.8	1.1	0.9	2.5	1.1	1.9	2.1	1.7	0.8	0.8
	11	1.3	0.9	0.9	1.6	1.3	1.1	2.2	1.3	0.8	0.6	0.5	0.7
	12	1.5	1.2	1.1	1.4	2.1	1.0	1.3	1.6	0.7	1.1	0.4	1.0
	13	0.5	1.3	1.3	1.2	0.9	1.5	1.9	1.2	0.9	1.5	0.3	1.2
	14	0.5	0.8	1.2	1.1	1.1	2.2	2.1	1.8	1.6	0.8	1.0	0.3
~	15	1.6	1.9	1.1	1.4	2.5	1.5	2.1	1.5	2.4	1.9	1.1	0.7
01	16	0.9	1.3	0.9	2.0	0.9	1.8	1.2	0.9	1.8	0.4	0.6	0.7
2	17	0.9	1.1	0.6	1.5	0.9	2.3	1.5	0.9	1.1	0.6	0.5	1.3
	18	1.5	2.0	0.6	0.9	0.8	1.8	2.5	1.5	0.4	0.8	0.7	0.9
	19	0.8	1.4	2.1	1.0	0.9	0.9	2.1	2.3	0.5	0.8	1.2	1.9
	20	0.6	0.9	3.1	2.9	1.1	1.8	2.0	1.0	1.1	0.3	1.5	1.1
	21	0.9	1.0	1.0	1.1	0.7	2.4	3.5	2.1	1.1	0.9	0.7	1.1
	22	0.8	1.9	1.8	2.1	0.7	2.8	1.3	2.7	1.2	0.8	0.9	0.9
	23	1.7	1.2	0.9	1.7	0.5	2.0	1.1	1.8	0.4	1.6	0.9	0.8
	24	0.6	2.1	1.8	0.9	0.7	2.7	2.1	1.0	0.9	0.6	0.8	0.7
	25	1.1	1.6	0.7	1.0	1.6	1.6	1.6	1.7	1.1	0.8	1.3	0.9
	26	1.3	2.3	1.1	0.9	0.4	1.3	1.8	1.9	1.3	0.3	0.6	0.8
	27	1.8	2.4	1.1	1.1	0.8	1.4	0.9	1.3	0.9	0.4	1.3	0.8
	28	1.6	1.7	1.4	1.0	0.7	1.1	0.9	2.4	1.0	0.7	0.9	0.8
	29	1.3	1.2	2.1	2.7	0.7	1.4	1.1	1.2	0.9	0.8	1.1	0.6
	30	1.6		1.3	1.6	0.9	2.1	1.0	0.8	0.6	0.6	1.4	0.5
	31	1.3		1.8		0.9		1.1	1.1	2.0	0.6		0.7

## 5) Natural Disaster

The Number Classified by Seismic Intensity of the Earthquake Observed in Pakistan (1900 to 2013)

			Ma	agnitude in	Richter sc	ale				Highest
Year	Unknown	<u>∼</u> 3.0	3.0~3.9	4.0~4.9	5.0~5.9	6.0~6.9	<u>7.0~7.9</u>	8.0 ~	Total	tremor
1909							1		1	7.0
1928						1			1	6.6
1931						1	1		2	7.1
1935								1	1	8.1
1945								1	1	8.0
1947						1			1	6.9
1966			ļ'	ļ'	2	2			4	6.8
1972			ļ'	ļ'	3				3	5.9
1973			ļ!	12	8				20	5.6
1974			ļ'	8	5	2			15	6.2
1975			Ļ'	11	5	ļ!			16	5.5
1976			ļ'	4	1				5	5.3
1977			ļ'	7	4				11	5.5
1978			1	9	5				15	5.5
1979			ļ'	10					10	4.8
1980			ļ'	12	3	ļ			15	5.4
1981			<b>└────′</b>	14	3	ļļ			17	5.4
1982	┠────┤		<b>└───</b> ┘	8	4	ļ			12	5.2
1983	┞────┤		<u>↓</u> י	11		ļ			12	4.8
1984	┞────┤		<b>└───</b> ┘	18	/	ļ			26	5.6
1985	┞───┤		<b>└──</b> ┘	15	5	ļ			20	5.7
1986		1	<u> </u>	12	2				15	5.3
1987			2	13	1				10	5.0
1988			<b>├</b> ────┦	15	۷				15	5.5
1989			<b>├</b> ────┦	10					10	4./
1990		. <u></u>	<u>├</u>	21	0	1			30 20	0.0
1991		. <u></u>	10	24	10				<u>20</u>	5.0
1002			1	23	5				43	<u> </u>
100/			<b>└</b>		2				10	5.5
1005			4	14	<u> </u>				10	5.0
1006		. <u></u>		17	3				27	5.0
1007		. <u></u>	81	126	9	1	1		218	7.1
1998			8	29	3	•			40	5.4
1999			3	15	6				24	5.7
2000			4	14	1	1			20	6.0
2001			2	16	3				21	5.2
2002			6	26	1				33	5.8
2003			1	14	1				16	5.0
2004		. <u></u>	3	21	5				29	5.5
2005		1	288	287	46	1	1		624	7.6
2006			77	47	3				127	5.2
2007			22	33	4				59	5.5
2008			87	80	7	2			176	6.4
2009			1	15	6				22	5.5
2010				19	8				27	5.4
2011				25	3		1		29	7.2
2012				28	3				31	5.4
2013			1	50	7	1	1		60	7.7
Total	0	1	613	1171	208	14	6	2	2015	_