# THE REPUBLIC OF KOREA

THE STUDY
ON
RIVER ENVIRONMENT IMPROVEMENT
FOR
THE TRIBUTARIES OF HAN RIVER SYSTEM
IN
SEOUL MUNICIPALITY AND ITS VICINITY

VOLUME 3
SUPPORTING REPORT

**JANUARY 1992** 

JAPAN INTERNATIONAL COOPERATION AGENCY

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# SUPPORTING REPORT I

# HYDROLOGICAL AND HYDRAULIC ANALYSIS

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	Location Map of Rainfall Observation Stations I Thiessen Polygon Map (1)

#### Chapter 1 Introduction

#### 1.1 Purpose of this study

Rainfall and discharge were observed in order to analyse hydrological and pollution loading balance within the basins and to understand the present flow-regime.

#### 1.2 Study Method

#### (1) Rainfall Observation

In order to understand the precipitation trend of each basin in terms of time and location, rainfall was measured from June 20, 1990 until July 18, 1991 at the five places where the self recording raingauges, SK1-10, were installed. The rainfall data were arranged as ten minute precipitation data through the whole observation period.

In order to understand the hydrological balance and pollution loading balance of each basin throughout the year, the water level of 15 stations were measured. Afterwards these data were utilized to determine the design conditions of water quality and the flow regime improvement plan.

#### (2) Discharge Observation

Observation started at fifteen places on April 9, 1990. In the beginning time, water level was recorded once a day through visual observations. Water level was recorded through the self-registering water level gauges, SUIKEN W-021-Z, installed from September to November 1991, until July 8, 1991.

The discharge survey, which measures velocity and depth in river cross sections, was carried out at every water level gauging station.

The water level data of a day was average figure of water levels of 6am and 6pm. Excepting the aforesaid stational observation, the discharge observation was conducted once droughty water period at the water resources in order to determine base run-off base flow.

#### 2.1 Location of Observation Stations

The locations of the observation stations for rainfall are shown in Table 2.1-1 and Fig. 2.1-1.

Table 2.1-1 Rainfall Observation Station

A.F. ( Yan) 1		,	<u></u>	
River name	Station name	Туре	Available data	Remarks
Anyang	Yangchon-gu	Self	Jan. 1'90 to Jun. 12'91	Existing
ditto	Kuro-gu	ditto	Jan. 1'90 to Jun. 12'91	ditto
ditto	Yongdungpo-gu	ditto	Jan. 1'90 to Jun. 12'91	ditto
ditto	Kwangmyong-gu	ditto	Jan. 1'90 to Jun. 12'91	ditto
ditto	Anyang-shi	Manual	Jan. 1'90 to Jun. 12'91	ditto
ditto	Kunpo-shi	Self	Jan. 1'90 to Jun. 12'91	ditto
ditto	Uiwang-shi	Manual	Jan. 1'90 to Jun. 16'91	ditto
ditto	Seoul National Univ.	Self	Jun. 20'90 to Jul. 16'91	New
ditto	Tokjang Primary School	Self	Jun. 20'91 to Jul. 16'91	New
ditto	Anyang Middle School	Self	Jan. 20'91 to Jul. 16'91	· <sub>:</sub> New
Yangjae	Socho-gu	Self	Jan. 1'91 to Jun. 12'91	Existing
ditto	Kangnam-gu	Self	Jan. 1'91 to Jun. 12'91	ditto
ditto	Kwachon-gu	Self	Jan. 1'91 to Jun. 12'91	ditto
ditto	Songnam-shi	Self	Jan. 1'91 to Jun. 12'91	ditto
Vi	Dobong-gu	Self	Jan. 1'91 to Jun. 12'91	ditto
ditto	Songbulsa	Self	Jun. 20'91 to Jul. 16'91	New
Chungroung	Songbuk-gu	Self	Jan. 1'91 to Jun. 12'91	Existing
ditto	Tongdaemun-gu	Self	Jan. 1'91 to Jun. 12'91	ditto
ditto	National Univ.	Self	Jun. 20'91 to Jul. 16'91	New

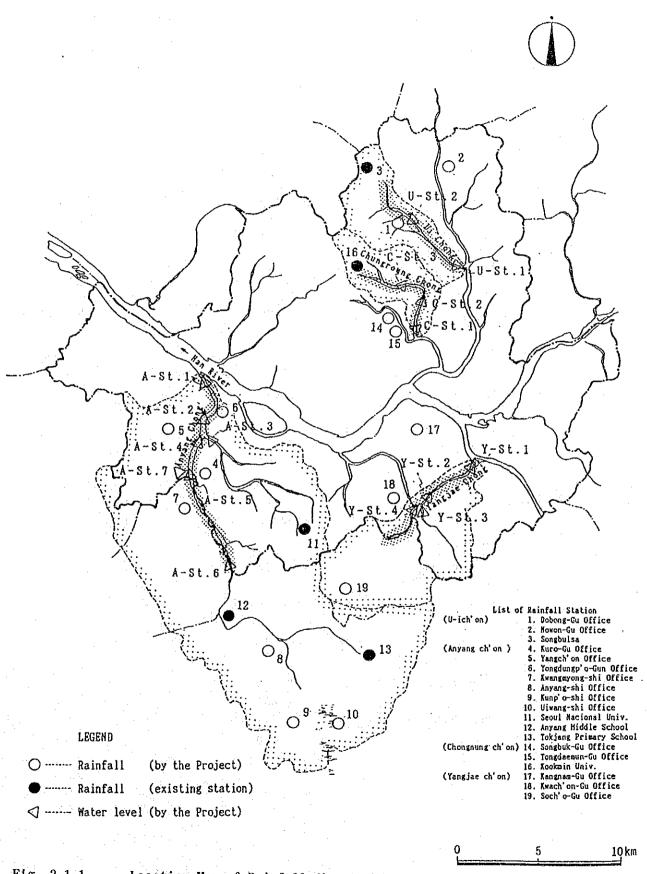


Fig. 2.1-1 Location Map of Rainfall Observation Stations

#### 2.2 Areal Rainfall

Areal rainfall was obtained with the following calculation methods.

- a. Average method between January 1 in 1990 and June 30 in 1991.
  - b. Thiessen method

The Thiessen polygon and ratio are shown below.

## Anyang Chong

	Station name	Thiessen	rate
	Yangchon-gu	0.085	
	Kuro-gu	0.068	
	Yongdungpo-gu	0.054	
	Kwangmyong-shi	0.156	
	Anyang-shi	0.095	
	Kunpo-shi	0.060	
	Uiwang-shi	0.058	
	Seoul National Univ.	0.120	
	Tokiang Primary School	0.104	
	Tokjang Primary School Anyang Middle School	0.170	
_	Kwachon-shi	0.030	
	total	1.000	

#### Yangjae Chong

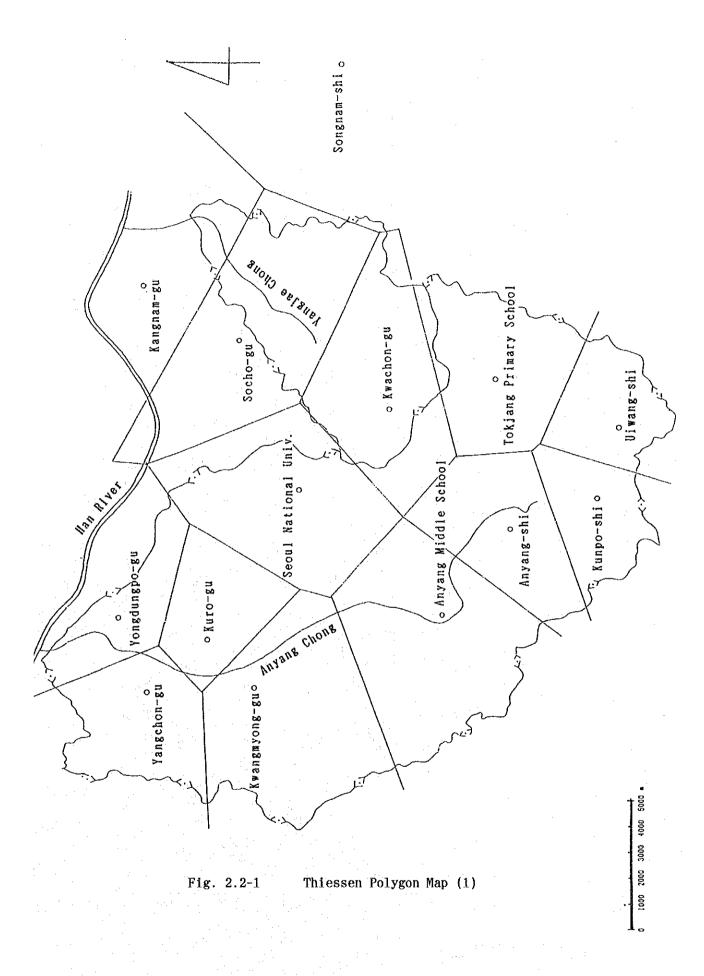
Station name	Thiessen rate
Socho-gu Kangnam-gu Kwachon-shi Tokjang Primary School Songnam-shi	0.439 0.062 0.460 0.104 0.010
total	1.000

#### Vi Chong

Station name	Thiessen rat
Dobong-gu Songbulsa Songbuk-gu National Univ.	0.340 0.602 0.009 0.049
total	1.000

#### Chungroung Chong

Station name		Thiessen	ra
Dobong-gu Songbuk-gu Tongdaemun-gu National Univ.	.".	0.144 0.337 0.093 0.426	• • .
total		1.000	



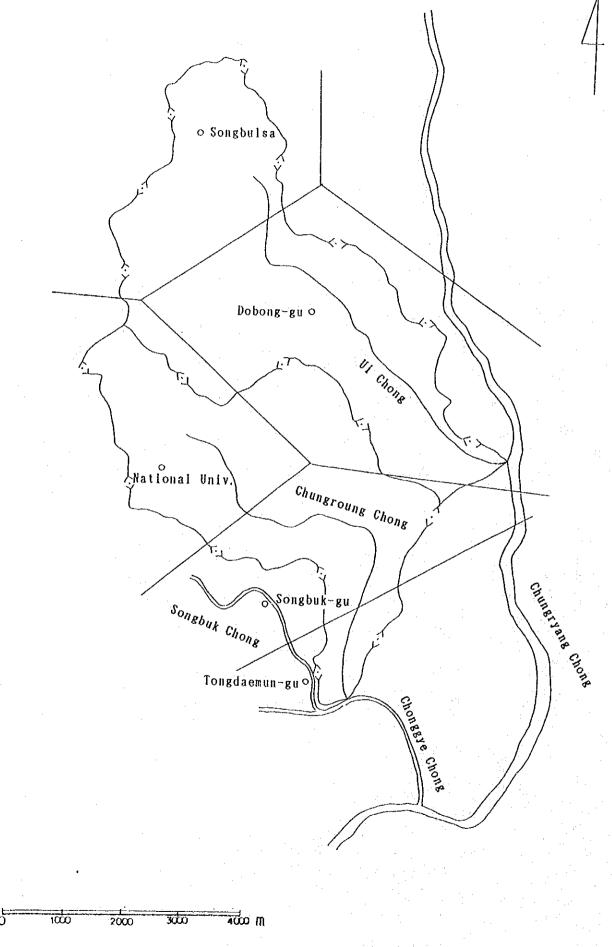


Fig. 2.2-2 Thiessen Polygon Map (2)

### Table 2.2-1 Areal Rainfall

面積雨量 90年1月	90年3月	90年5月	90年7月
日時按養川良才川直陵川牛耳川	日時安黄川良才川貞陵川井耳川	日時安養川良才川貞陵川牛耳川 1 13.2 14.0 7.2 8.1	日時安養川長才川貞陵川中耳川
1 0.0 0.0 0.0 0.0 2 0.0 0.0 0.0 0.0	1 0.0 0.0 0.0 0.0 0.0 2 0.3 0.0 0.0 0.0	1 13.2 14.0 7.2 8.1 2 11.1 8.3 8.6 7.7	1 0.0 0.0 0.0 0.0 0.0 2 11.0 9.7 13.9 20.3
2 0.0 0.0 0.0 0.0 0.0 3 0.0 0.0 0.0 0.0 0.0	3 0.0 0.0 0.0 0.0	3 6.1 7.4 8.2 8.8	3 1.2 2.8 2.0 3.4
4 0.0 0.0 0.0 0.0	4 0.0 0.0 0.0 0.0	4 0.1 0.4 0.5 0.5	4 0.0 0.0 0.2 0.0
5 0.7 1.8 0.0 .0.0	5 0.0 0.0 0.0 0.0	5 0.0 0.0 0.0 0.0	5 0.6 0.7 0.4 0.0
6 0.0 0.0 0.0 0.0	6 0.0 0.0 0.0 0.0 0.0 7 0.0 0.0 0.0 0.0 0.0	8         0.1         0.0         0.0         0.0           7         9.0         10.1         5.4         4.9	6 1.5 0.9 2.9 4.2
7 0.0 0.0 0.0 0.0 0.0 8 0.0 0.0 0.0 0.0 0.0	7 0.0 0.0 0.0 0.0 0.0 8 0.0 0.0 0.0 0.0 0.0	7 9.0 10.1 5.4 4.9 8 0.0 0.0 0.0 0.0 0.0	7 18. 7 18. 6 25. 6 27. 8 8 3.0 0.1 4.5 4.5
8 0.0 0.0 0.0 0.0 9 3.6 0.0 0.0 0.0	9 0.0 0.0 0.0 0.0	9 0.0 0.0 0.0 0.0	9 1.8 0.0 0.1 0.0
10 8.5 10.8 0.0 0.0	10 0.0 0.0 0.0 0.0	10 6.6 13.0 6.0 7.3	10 20.2 3.0 8.0 9.5
11 0.0 0.0 0.0 0.0	11 25.7 33.1 25.7 25.0	11 1.5 2.1 7.5 7.0	11 28.0 49.5 31.4 45.4
12 0.0 0.0 0.0 0.0	12         9.9         7.0         7.7         6.3           13         0.0         1.6         0.0         0.0	12 0.8 0.0 0.0 0.0 13 15.2 14.4 15.7 14.1	12 3.8 7.7 5.5 4.5
13 0.0 0.0 0.0 0.0 0.0 14 0.0 0.0 0.0 0.0	14 5.5 3.3 4.0 4.0	14 0.1 0.3 0.8 0.5	13 3.8 0.1 0.6 1.3 14 35.1 36.5 33.6 41.1
15 0.0 0.0 0.0 0.0	15 0.0 0.0 0.0 0.0	15 0.0 0.1 0.0 0.0	15 15.9 7.5 13.1 8.5
16 0.0 0.0 0.0 0.0	16 0.4 0.0 0.0 0.0	16 0.0 11.3 0.0 0.0	16 15.0 15.8 18.3 8.1
17 0.3 0.0 0.0 0.0	17 1.9 4.3 1.0 0.0	17 7.6 11.8 8.6 8.2	17 85, 4 59, 8 110, 7 108, 6
18         1.1         0.6         0.0         0.0           19         0.0         0.0         0.0         0.0	18   0.1   0.0   0.0   0.0   19   0.0   0.0   0.0   0.0	18         9.6         3.9         8.7         10.3           19         2.1         1.8         1.8         2.3	18 43.4 57.3 67.3 29.5 19 0.9 1.5 7.4 6.0
19 0.0 0.0 0.0 0.0 20 0.0 0.0 0.0 0.0	20 0.0 0.0 0.0 0.0	20 3.4 5.9 1.9 1.7	20 2.8 4.7 40.6 57.2
21 1.5 2.5 0.0 0.0	21 0.0 0.0 0.0 0.0	21 0.0 0.0 0.0 0.0	21 6.9 2.6 14.2 29.9
22 0.0 0.0 0.0 0.0	22 0.8 0.0 0.0 0.0	22 0.0 0.0 0.0 0.0	22 1.6 0.1 3.6 7.9
23 0.0 0.0 0.0 0.0	23 2.1 2.4 3.5 3.3 24 1.8 1.4 1.8 1.3	23 0.0 0.0 0.0 0.0 0.0 24 5.2 0.3 0.0 0.0	23 2.7 2.1 4.5 28.7
24         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0	25 0.0 0.0 0.0 0.0 0.0	24   5.2   0.3   0.0   0.0	24 37. 6 33. 1 43. 1 59. 8 25 30. 6 40. 1 11. 9 6. 0
26 0.0 0.0 0.0 0.0	26 0.9 0.0 0.0 0.0	26 0.0 0.0 0.0 0.0	26 2.6 3.1 7.1 4.4
27 0.0 0.0 0.0 0.0	27 4.3 1.6 1.0 1.5	27 0.0 0.0 0.0 0.0	27 0.0 0.1 0.0 0.0
28 0.0 0.0 0.0 0.0	28 16.0 25.3 19.7 19.5	28 0.0 0.0 0.0 0.0	28 0.0 0.0 0.1 0.3
29 7.1 5.0 0.0 0.0	29 5.8 4.4 5.5 4.8 30 0.2 0.5 0.7 0.8	29 0.0 0.0 0.0 0.0 30 2.1 0.1 0.0 0.0	29 0.0 0.0 0.0 0.0
30 1.1 4.0 0.0 0.0 31 1.9 8.5 0.0 0.0	31 0.0 0.0 0.0 0.0	31 15.9 13.1 14.3 11.0	30 0.0 0.0 0.0 0.0 31 0.0 0.0 0.0 0.0
合計 25.9 33.0 0.0 0.0	75. 4 84. 8 70. 5 66. 3	109. 5 118. 0 95. 3 92. 0	374. 0 357. 3 470. 9 516. 9
	0.047.4	0.04-0.0	
90年2月	90年4月	90年6月	90年8月
90年2月 日時安養川良才川貞陵川千耳川	日時安養川頂才川頂陵川牛耳川	日時安養川良才川貞陵川井耳川	90年8月 日時安養川泉才川貞陵川牛耳川
90年2月	日時接養川良才川貞陵川牛耳川 1 0.0 0.0 0.0 0.0 2 0.0 0.0 0.0 0.0	日時安養川限才川直陵川午耳川 1 0.5 0.3 0.2 0.0 2 0.0 0.0 0.0 0.0	90年8月
90年2月 日時衣養川良才川貞陵川年耳川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8	日時接養川良才川貞陵川牛耳川 1 0.0 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	日時安養川民才川貞陵川牛耳川 1 0.5 0.3 0.2 0.0 2 0.0 0.0 0.0 0.0 3 0.0 0.0 0.0 0.0	9 0 年 8 月 日時 友養 川 良才 川 貞陵 川 牛耳 川 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
90年2月 日時衣養川良才川貞陵川年耳川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0	日時接養川良才川貞陵川牛耳川 1 0.0 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 4 0.0 0.0 0.0 0.0	日時安養川民才川貞陵川牛耳川 1 0.5 0.3 0.2 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	90年8月 日時友養川良才川貞陵川牛耳川 1 0.0 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 4 0.0 0.0 0.0 0.0
9 0 年 2 月 日時 安養川 良才川 貞陵川 井 耳川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0 5 0.1 0.0 0.0 0.0	日時接養川良才川貞陵川牛耳川 1 0.0 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 4 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0	日時安養川民才川貞陵川牛耳川 1 0.5 0.3 0.2 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 0.0 0.0 0.0	90年8月 日時友養川良才川貞陵川牛耳川 1 0.0 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 4 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0
9 0 年 2 月 日時 安養川 良才川 貞陵川 拝 耳川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0 5 0.1 0.0 0.0 0.0 6 0.1 0.0 0.2 0.3	日時接養川良才川貞陵川牛耳川 1 0.0 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 4 0.0 0.0 0.0 0.0	日時接到限力用直接用年到用 1 0.5 0.3 0.2 0.0 2 0.0 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 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0 7 3.6 0.0 0.0 0.0	90年8月 日時友養川良才川貞陵川牛耳川 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 4 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0
9 0 年 2 月 日時 安養川 良才川 貞陵川 井 耳川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0 5 0.1 0.0 0.0 0.0	日時接養加良才加良物(中国加 1 0.0 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 4 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 6 0.9 0.0 0.0 0.0 7 10.5 15.3 17.2 17.3 8 0.0 0.0 0.0 0.0	日時接到  民才  直接  年月   1 0.5 0.3 0.2 0.0 2 0.0 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 0.0 5 0.0 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0 7 3.6 0.0 0.0 0.0 8 19.5 31.0 40.8 43.5	90年8月 日時友養川良才川貞陵川牛耳川 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 4 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0
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9 0年2月 日時接番川民才川園陵川年耳川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0 0.0 5 0.1 0.0 0.0 0.0 0.0 6 0.1 0.0 0.2 0.3 7 0.2 0.0 0.0 0.0 0.0 8 0.2 0.0 0.0 0.0 0.0 9 0.0 0.0 0.0 0.0 0.0 10 9.7 11.8 17.5 19.5 11 0.1 0.8 0.3 0.5 12 0.1 0.0 0.2 0.3 13 0.0 0.0 0.0 0.0 0.0 14 0.0 0.0 0.0 0.0 15 2.3 3.4 3.8 3.3 16 1.5 0.0 0.0 0.0 0.0 17 0.6 0.0 0.0 0.0 18 12.2 18.5 26.3 27.5 19 4.7 6.5 6.4 8.9 20 0.7 0.0 0.0 0.0 21 2.0 0.0 0.0 0.0 22 10.9 7.3 11.0 12.0 23 4.0 4.6 3.2 2.8 24 0.1 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 27 0.1 0.0 0.0 0.0	日学技術	日時安全川東子川	90年8月 日時友養川良才川貞陵川年月川 1 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 4 0.0 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0 0.0 7 0.0 0.0 0.0 0.0 0.0 8 8.5 6.1 3.8 2.6 9 8.2 4.2 1.1 11.7 10 9.1 7.3 3.4 0.9 11 2.9 0.1 0.0 0.0 0.0 12 0.3 0.0 0.0 0.0 0.0 12 0.3 0.0 0.0 0.0 0.0 13 2.8 0.0 0.0 0.0 0.0 14 11.8 21.5 16.3 12.3 15 0.0 0.0 0.0 0.0 0.0 16 4.9 2.5 3.4 15.2 17 6.1 8.2 10.8 10.0 18 0.0 0.0 0.0 0.0 0.3 19 3.5 3.1 3.0 5.7 20 23.9 54.0 17.4 17.8 21 63.0 86.2 59.4 88.5 22 4.1 4.5 1.9 6.8 23 0.0 0.0 0.0 0.2 0.5 24 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0
9 0年2月 日時接養川度才川度陵川年東川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0 0.0 5 0.1 0.0 0.0 0.0 0.0 6 0.1 0.0 0.2 0.3 7 0.2 0.0 0.0 0.0 0.0 8 0.2 0.0 0.0 0.0 0.0 9 0.0 0.0 0.0 0.0 0.0 9 0.0 0.0 0.0 0.0 0.0 10 9.7 11.8 17.5 19.5 11 0.1 0.8 0.3 0.5 12 0.1 0.0 0.2 0.3 13 0.0 0.0 0.0 0.0 14 0.0 0.0 0.0 0.0 15 2.3 3.4 3.8 3.3 16 1.5 0.0 0.0 0.0 17 0.6 0.0 0.0 0.0 18 12.2 18.5 26.3 27.5 19 4.7 6.5 6.4 8.9 20 0.7 0.0 0.0 0.0 21 2.0 0.0 0.0 0.0 22 10.9 7,3 11.0 12.0 23 4.0 4.6 3.2 2.8 24 0.1 0.0 0.3 0.3 25 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 27 0.1 0.0 0.0 0.0	日本技術	日時安養川 民子川	90年8月 日時友養川良才川貞陵川年月川 1 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 4 0.0 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0 0.0 8 8.5 6.1 3.8 2.6 9 8.2 4.2 1.1 11.7 10 9.1 7.3 3.4 0.9 11 2.9 0.1 0.0 0.0 12 0.3 0.0 0.0 0.0 0.0 13 2.8 0.0 0.0 0.0 0.0 13 2.8 0.0 0.0 0.0 0.0 14 11.8 21.5 16.3 12.3 15 0.0 0.0 0.0 0.0 0.0 16 4.9 2.5 3.4 15.2 17 6.1 8.2 10.8 10.0 18 0.0 0.0 0.0 0.3 19 3.5 3.1 3.0 5.7 20 23.9 54.0 17.4 17.8 21 53.0 86.2 59.4 88.5 22 4.1 4.5 1.9 6.8 23 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 27 0.0 0.0 0.0 0.0 0.0 28 0.0 0.0 0.0 0.0 0.0
9 0 年 2 月 日時 接続川 民才川 直陵川 年 月川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0 0.0 5 0.1 0.0 0.0 0.0 0.0 6 0.1 0.0 0.0 0.0 0.0 8 0.2 0.0 0.0 0.0 0.0 9 0.0 0.0 0.0 0.0 0.0 9 0.0 0.0 0.0 0.0 0.0 10 9.7 11.8 17.5 19.5 11 0.1 0.8 0.3 0.5 12 0.1 0.0 0.2 0.3 13 0.0 0.0 0.0 0.0 0.0 14 0.0 0.0 0.0 0.0 15 2.3 3.4 3.8 3.3 16 1.5 0.0 0.0 0.0 17 0.6 0.0 0.0 0.0 18 12.2 18.5 26.3 27.5 19 4.7 6.5 6.4 8.9 20 0.7 0.0 0.0 0.0 21 2.0 0.0 0.0 0.0 22 10.9 7,3 11.0 12.0 23 4.0 4.6 3.2 2.8 24 0.1 0.0 0.3 0.3 25 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 27 0.1 0.0 0.0 0.0 28 0.0 0.0 0.0 0.0 29 0.0 0.0 0.0 0.0	日学技術	日時安全川東子川	90年8月 日時友養川良才川貞陵川牛耳川 1 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 4 0.0 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0 0.0 7 0.0 0.0 0.0 0.0 0.0 8 8.5 6.1 3.8 2.6 9 8.2 4.2 1.1 11.7 10 9.1 7.3 3.4 0.9 11 2.9 0.1 0.0 0.0 12 0.3 0.0 0.0 0.0 0.0 12 2 3 0.0 0.0 0.0 0.0 13 2.8 0.0 0.0 0.0 23.8 14 11.8 21.5 16.3 12.3 15 0.0 0.0 0.0 0.0 0.0 16 4.9 2.5 3.4 15.2 17 6.1 8.2 10.8 10.0 18 0.0 0.0 0.0 0.0 0.3 19 3.5 3.1 3.0 5.7 20 23.9 54.0 17.4 17.8 21 63.0 86.2 59.4 88.5 22 4.1 4.5 1.9 6.8 23 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 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
9 0年2月 日時接養川度才川度陵川年東川 1 0.2 1.2 0.8 1.3 2 0.0 0.0 0.8 1.3 3 0.0 0.0 1.2 1.8 4 0.1 0.0 0.0 0.0 0.0 5 0.1 0.0 0.0 0.0 0.0 6 0.1 0.0 0.2 0.3 7 0.2 0.0 0.0 0.0 0.0 8 0.2 0.0 0.0 0.0 0.0 9 0.0 0.0 0.0 0.0 0.0 9 0.0 0.0 0.0 0.0 0.0 10 9.7 11.8 17.5 19.5 11 0.1 0.8 0.3 0.5 12 0.1 0.0 0.2 0.3 13 0.0 0.0 0.0 0.0 14 0.0 0.0 0.0 0.0 15 2.3 3.4 3.8 3.3 16 1.5 0.0 0.0 0.0 17 0.6 0.0 0.0 0.0 18 12.2 18.5 26.3 27.5 19 4.7 6.5 6.4 8.9 20 0.7 0.0 0.0 0.0 21 2.0 0.0 0.0 0.0 22 10.9 7,3 11.0 12.0 23 4.0 4.6 3.2 2.8 24 0.1 0.0 0.3 0.3 25 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 27 0.1 0.0 0.0 0.0	日本技術	日時 接種     日子	90年8月 日時友養川良才川貞陵川年月川 1 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 4 0.0 0.0 0.0 0.0 0.0 5 0.0 0.0 0.0 0.0 0.0 6 0.0 0.0 0.0 0.0 0.0 8 8.5 6.1 3.8 2.6 9 8.2 4.2 1.1 11.7 10 9.1 7.3 3.4 0.9 11 2.9 0.1 0.0 0.0 12 0.3 0.0 0.0 0.0 0.0 13 2.8 0.0 0.0 0.0 0.0 13 2.8 0.0 0.0 0.0 0.0 14 11.8 21.5 16.3 12.3 15 0.0 0.0 0.0 0.0 0.0 16 4.9 2.5 3.4 15.2 17 6.1 8.2 10.8 10.0 18 0.0 0.0 0.0 0.3 19 3.5 3.1 3.0 5.7 20 23.9 54.0 17.4 17.8 21 53.0 86.2 59.4 88.5 22 4.1 4.5 1.9 6.8 23 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 27 0.0 0.0 0.0 0.0 0.0 28 0.0 0.0 0.0 0.0 0.0

1     46. 3     52. 5     58. 0     63. 0       2     3. 7     10. 8     13. 7     18. 0       3     0. 5     0. 0     0. 6     0. 2       4     1. 1     0. 1     3. 3     0. 1		年9月						
2   3.7   10.8   13.7   18.0     3   0.5   0.0   0.6   0.2     4   1.1   0.1   3.3   0.1     5   0.0   0.2   0.0   0.0     6   0.0   0.0   0.0   0.0     7   0.1   0.0   0.0   0.0     8   23.0   22.7   68.4   107.5     9   39.2   61.3   90.5   62.2     10   202.3   168.8   187.6   61.7     11   234.6   223.3   205.4   118.8     12   0.0   0.0   0.0   0.0     13   0.0   0.0   0.0   0.0     14   0.1   0.0   0.0   0.0     15   0.0   0.0   0.0   0.0     16   0.0   0.0   0.0   0.0     17   0.0   0.0   0.0   0.0     18   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     21   0.0   0.0   0.0   0.0     22   0.0   0.0   0.0   0.0     23   2.2   4.2   7.8   4.5     24   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     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     29   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     21   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     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     553.0   544.0   535.4   536.0	旧時	按賽川	浪才川	順陵川	件耳川			
3	1	46. 3	52, 5	58.0	63. 0			
A   1.1   0.1   3.3   0.1     5   0.0   0.2   0.0   0.0     6   0.0   0.0   0.0   0.0     7   0.1   0.0   0.0   0.0     8   23.0   22.7   68.4   107.5     9   39.2   61.3   90.5   62.2     10   202.3   168.8   187.6   61.7     11   234.6   223.3   205.4   118.8     12   0.0   0.0   0.0   0.0     13   0.0   0.0   0.0   0.0     14   0.1   0.0   0.0   0.0   0.0     15   0.0   0.0   0.0   0.0   0.0     16   0.0   0.0   0.0   0.0   0.0     17   0.0   0.0   0.0   0.0     18   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     21   0.0   0.0   0.0   0.0     22   0.0   0.0   0.0   0.0     23   2.2   4.2   7.8   4.5     24   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     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     29   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     27   0.0   0.0   0.0   0.0     28   0.0   0.0   0.0   0.0     30   0.0   0.0   0.0   0.0     553.0   544.0   535.4   536.0	2	3. 7	10.8	13.7	18.0			
A   1.1   0.1   3.3   0.1     5   0.0   0.2   0.0   0.0     6   0.0   0.0   0.0   0.0     7   0.1   0.0   0.0   0.0     8   23.0   22.7   68.4   107.5     9   39.2   61.3   90.5   62.2     10   202.3   168.8   187.6   61.7     11   234.6   223.3   205.4   118.8     12   0.0   0.0   0.0   0.0     13   0.0   0.0   0.0   0.0     14   0.1   0.0   0.0   0.0   0.0     15   0.0   0.0   0.0   0.0   0.0     16   0.0   0.0   0.0   0.0   0.0     17   0.0   0.0   0.0   0.0     18   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     21   0.0   0.0   0.0   0.0     22   0.0   0.0   0.0   0.0     23   2.2   4.2   7.8   4.5     24   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     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     29   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     27   0.0   0.0   0.0   0.0     28   0.0   0.0   0.0   0.0     30   0.0   0.0   0.0   0.0     553.0   544.0   535.4   536.0	3	0.5	0.0	0.6	0.2			
S	4	1.1	.0.1	3, 3	0.1			
7	5	0.0	0.2		0.0			
8 23.0 22.7 58.4 107.5 9 39.2 61.3 90.5 62.2 10 202.3 68.8 187.6 61.7 11 234.6 223.3 205.4 118.8 12 0.0 0.0 0.0 0.0 0.0 13 0.0 0.0 0.0 0.0 0.0 14 0.1 0.0 0.0 0.0 0.0 15 0.0 0.0 0.0 0.0 0.0 16 0.0 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 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 0.0 0.0 23 2.2 4.2 7.8 4.5 24 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 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 20 0.0 0.0 0.0 0.0 0.0 21 0.0 0.0 0.0 0.0 0.0 23 2.2 4.2 7.8 4.5 24 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 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	6	0.0	0.0	0.0	0.0			
8 23.0 22.7 58.4 107.5 9 39.2 61.3 90.5 62.2 10 202.3 68.8 187.6 61.7 11 234.6 223.3 205.4 118.8 12 0.0 0.0 0.0 0.0 0.0 13 0.0 0.0 0.0 0.0 0.0 14 0.1 0.0 0.0 0.0 0.0 15 0.0 0.0 0.0 0.0 0.0 16 0.0 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 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 0.0 0.0 23 2.2 4.2 7.8 4.5 24 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 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 20 0.0 0.0 0.0 0.0 0.0 21 0.0 0.0 0.0 0.0 0.0 23 2.2 4.2 7.8 4.5 24 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 0.0 26 0.0 0.0 0.0 0.0 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	7	0.1	0.0	0.0	0.0			
9   39. 2   61. 3   90. 5   62. 2	8		22. 7	68. 4	107. 5			
10   202.3   68.8   187.6   61.7     11   234.6   223.3   205.4   118.8     12   0.0   0.0   0.0   0.0     13   0.0   0.0   0.0   0.0     15   0.0   0.0   0.0   0.0     15   0.0   0.0   0.0   0.0     16   0.0   0.0   0.0   0.0     17   0.0   0.0   0.0   0.0     18   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     21   0.0   0.0   0.0   0.0     22   0.0   0.0   0.0   0.0     23   2.2   4.2   7.8   4.5     24   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     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     20   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     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     53.0   544.0   535.4   536.0     9   9   1   0.0	9	39. 2		90. 5	62. 2			
11	10		168.8	187. 6	161.7			
12	11	234. 6	223. 3	205. 4				
14	12		0.0	0.0	0.0			
14				0.0				
15				0.0	0.0			
16		0.0		0.0				
17   0.0   0.0   0.0   0.0     18   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     21   0.0   0.0   0.0   0.0     22   0.0   0.0   0.0   0.0     23   2.2   4.2   7.8   4.5     24   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     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     29   0.0   0.0   0.0   0.0     30   0.0   0.0   0.0   0.0     53.0   544.0   535.4   536.0     9 0年1 0月				0.0	0.0			
18   0.0   0.0   0.0   0.0     19   0.0   0.0   0.0   0.0     20   0.0   0.0   0.0   0.0     21   0.0   0.0   0.0   0.0     22   0.0   0.0   0.0   0.0     23   2.2   4.2   7.8   4.5     24   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     25   0.0   0.0   0.0   0.0     26   0.0   0.0   0.0   0.0     27   0.0   0.0   0.0   0.0     28   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     53.0   544.0   535.4   536.0     9 0年1 0月								
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 0.0 0.0 23 2.2 4.2 7.8 4.5 24 0.0 0.0 0.0 0.0 0.0 25 0.0 0.0 0.0 0.0 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 0.0 553.0 544.0 535.4 536.0								
20    0.0    0.0    0.0    0.0								
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22								
23								
24     0.0     0.0     0.0     0.0       25     0.0     0.0     0.0     0.0       26     0.0     0.0     0.0     0.0       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       50     0.0     0.0     0.0     0.0       553     0     544     0     535     4     536       9     0.4     1.0								
25								
26								
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       653     0     644     0     635     4     536       9     0     0     0								
28     0.0     0.0     0.0     0.0       23     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       53.0     544.0     535.4     536.0								
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 0.0 553.0 544.0 535.4 536.0 9 0年1 0月								
30 0.0 0.0 0.0 0.0 0.0 31 0.0 0.0 0.0 0.0 0.0 553.0 544.0 535.4 536.0 9 0年1 0月								
31 0.0 0.0 0.0 0.0 0.0 553.0 544.0 535.4 536.0 90年10月								
553.0 544.0 535.4 536.0 90年10月								
90年10月								
		p53. U p44. U p35. 4 p36. 0						
	9 ტ	ዕሰሩ 1 ለ 8						
				古 保佐 ! 1 6	+ HIB			

90	年11	月		
日時	接養川	原才川	直陵川	年耳川
$\overline{1}$	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
4	0. 9	0.1	2. 1	2.7
.5	2. 0	1.4	2, 3	0.4
6	10.7	0.4	10.5	8.6
7	2.0	0.0	0.0	0.0
8	0.1	0.0	0. 2	0. 6
. 9	0.7	0.1	0.9	1. 9
10	0.3	0.0	0.0	0.0
11	0.0	0.0	: 0.0	0.0
12	0.0	0.0	0, 0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0. 2	0.0	1.3	2. 3
18	0.8	0.0	1.0	1.0
19	14.8	3.4	5. 4	13.4
20	4.0	0.0	0.0	0.0
21	0.1	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	2. 0	0.1	1.1	1. 6
26.	0.0	0.0	0.0	0.0
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	0.6	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0
	39. 2	5. 6	24. 9	32. 3

	1.			
91	<u>年1月</u>		C KERGE FO	
日時		良才川		生基儿
<u>·1</u>	0.6	0.0	0.6	1.0
2	0.0	0.0	0.0	0.0
3	0.1	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0
6	0.1	0.0	0.0	0.0
7	0.1	0.0	0.0	0.0
- 8	0.0	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	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	- 0, 0
15	0.0	0.0	0.0	0.0
16	1.3	0.1	0. 2	2.4
17	0. 2	0.0	0.0	0.3
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.2	0.0	0.0	0.0
22	2, 0	0.1	0.6	1.3
23	0.7	0.0	0.0	0.3
24	2. 2	2.4	0.0	0.0
25	0.1	0.0	0.0	0.0
26	0.3	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.3	0.1	0. 2	0.0
29	0.4	0.0	0. 2	0.0
30	0. 2	0.0	0.0	0.0
31	1.1	0.0	0.0	0.0
V1	10.0	2.7	1. 9	5. 3
		الشنت	رخننى	

	年3月			
日時			貞陵川	
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
4	0.0	0.0	0.0	0.0
-5	0.0	0.0	0.0	0, 0
6	0.0	0.0	0.0	0.0
7	0.6	0.1	0.0.	0.0
- 8	11.8	0.5	3.5	0.1
9	6.3	0.3	4.8	0.2
10	4. 9	0, 4	8.0	Z. 0
11	3.4	0.0	5. 1	11.1
12	0.0	0.0	0.0	8. 1
13	0.0	0.0	0.0	1.5
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.3	0.0	0.9	1.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.2	0.0	0.2	0.6
20	0.2	0.0	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	0.0
26	5, 6	0. 1	6.3	8.1
27	3.8	0.1	2, 9	0.4
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
	37.0	1. 6	31. 7	33. 9

			月		
:	日	接到	底排	順隊	件耳川
	Ī	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
	4	0.0	0.0	2. 1	0.2
	5	0.0	0.0	0.2	0.0
	δ	0.0	0.0	5.8	0.7
	7	0.0	0.0	0.0	0.0
	8	0.0	0.0	0.2	0.0
	- 3	0.0	0.0	0.0	0.0
	10	0.0	0.0	0.0	0.0
	11	0.0	0.0	0.0	0.0
	12	0.0	0.0	0.0	0.0
	13	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0
	16	0.0	0.0	0.0	0.0
	17	0.0	0.0	1.1	0.1
	18	0.0	0.0	0.6	0.1
	19	0.0	0.0	3. 6	0.4
	20	0.0	0.0	0.0	0.0
i	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	0.4	0.0	0.0	0, 0
	25	0.8	0.0	0.0	0.0
- [	25	0.0	0.0	0.0	0.0
I	27	0.0	0.0	0.0	0.0
Ì	28	0.0	0.0	0.0	0.0
Į	29	0.0	0.0	0.0	0.0
ĺ	30	0.0	0.0	0.0	0.0
[	31	0.0	0.0	0.0	0.0
[		1. 2	0.0	13. 6	1. 6
-					

90	年12	Я		
后蓝	接養川	间专利	貞陵川	井面川
Ϊī	5. 3	0.3	4.9	6.0
. 2	0.0	0.0	0.0	0.0
3	0.1	0.0	0.0	0.0
4	0.3	0.1	0.0	2.4
5	0.1	0.0	0.0	3, 3
6	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0
8	0.0	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	0.0	0.3
12	0.0	0.0	0.0	0.0
13	0. 2	0.0	0.4	0.0
14	0.1	0.0	1.1	2. 2
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0, 0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.7	0.1	0. 2	1.2
22	0.5	0. 1	0.0	0.3
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	2.4	0. 2	0.0	0.0
26	0.0	0.0	9.0	0.0
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	0.9	0.7
	9. 7	0.7	7.5	16. 5

	91	年2月			
	四時	安養川	良才川	貞陵川	牛耳川
	1	0,0	0.0	0.0	0.0
	2	0.0	0.0	0.0	0.0
	3	0.1	0.0	0.0	0.0
	4	0. 2	1. 9	0.0	0.3
	5	0.1	0.0	0.0	0.0
	6	0. i	0.0	0.0	0.3
	7	0.9	0.0	3. 6	3.4
	8	0.2	0.0	0.0	1.8
	9	0.1	0.0	0.0	:3.3
ij	10	1. 6	0.1	1.1	2.2
	11	0.3	0.0	0.0	0.0
٠	12	0.0	0.0	0.0	0.0
.	13	0.0	0.0	0.0	0.0
.	14	0.3	0.0	0.0	0.0
١	15	7.1	0.6	6.6	8.9
	16	2. 8	. 0. 0	0.0	0.3
٠ĺ	17	0.0	0.0	0.0	0.3
í	18	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.0	0.0
	20	0.4	1. 2	0.0	0.0
	21	0.0	0.0	0.0	0.0
	22	0.0	0.0	0.0	0.0
	23	9.0	0.0	0.0	0.0
÷	24	9. 2	0.1	0.0	0.0
٠	25	0. 2	0.0	0.0	0.3
ij	26	0.0	0.0	0.0	0.3
	27	2.7	0. 2	1.3	3. 2
	28	1.0	0.0	0.9	1.6
	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
1		18. 2	4. 2	13. 4	26. 2
•					

91	年4月	4		
日時	安養川	頂才川	自時川	牛耳川
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
4	0.0	0.0	0.0	0.0
5	0.0	0.0	1.3	0.0
6	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0
8	0.0	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	0.0	0.0
12	11.1	0.1	12. 6	11.9
13	2. 9	0.0	1.5	0.0
14	0,0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	17. 6	1.1	18.6	18.9
18	7. 6	0.1	4. 0	0.1
19	0.0	0.0	0.0	0.0
20	0.0	0.0	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	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.3	0.0	0. 2	1.2
29	0. 2	0,0	0. 2	0.0
30	0. 2	0.1	1.3	1.0
31	0.0	0.0	0.0	0.0
لنا	40.0	1.5	39. 7	33. 2

		年5月			
	日時	安養川		貞陵川	
	1	0.0	0.0	0.0	0.0
ĵ	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
		0.0	0.0	0.0	0.0
	<u>5</u>	2. 9	0. 2	5.6	5. 9
	7	2.6	0.2	2. 6	3. 3
	8	0.2	0.0	0.5	0.0
	9	0.0	0.0	0.0	0.0
	10	0.0	0.0	9.0	0.0
	11	0.0	0.0	0.0	0.0
	12	0.0	0.0	0,0	0.0
•	13	0.0	0.0	0.0	0.0
.*	14	0.0	0.0	0.0	0.0
9	15	1.3	0.1	0. 1	0.3
	18	0.3	0.0	0.1	0.5
	17	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0
:	19	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0
	21	0.0	0.0	0.0	0.0
	22	0.0	0.0	0.0	0.0
	23	1.9	0.0	0.0	0.0
4.4	24	17.6	0.9	5. 5	9.5
	25	32.6	39.8	39. 1	54.3
	26	20.1	30.1	25. 6	22.7
	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	0.1	0.0	0.0	0.0
2.1	<del>                                     </del>	79.7	71.3	79.1	96.6

914	年7月			
声	安養川	真才川	真陵川	生耳川
1	1.0	0.0	2.6	1.5
2	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0
4	4. 2	0.3	1.7	0. 2
5	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0
7	14.3	1.6	17. 5	32. 4
8	0.0	0.0	0.0	0.0
9	0.1	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0. 7	0.2	0.0	0.0
15	9. 5	0.7	15.3	19.8
16	0. 1	0.0	7.9	1. 2
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	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	0.0
26	0.0	0.0	0.0	0.0
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
	29. 8	2.8	44. 9	55. 1

日野友養	91	年6月			
2   0.1   0.0   0.9   0.5   3   0.1   0.0   0.	日時	安養川	良才川	貞陵川	牛耳川
3         0.1         0.0         0.0         0.0           4         0.0         0.0         0.0         0.0           5         0.0         0.0         0.0         0.0           6         0.0         0.0         0.0         0.0           7         0.5         0.0         0.0         0.0           8         1.4         2.4         0.9         0.7           8         5.1         2.9         7.4         7.9           10         3.5         0.1         1.9         3.8           11         18.4         24.7         15.3         23.7           12         4.9         1.8         0.0         0.0           13         0.0         0.0         0.0         0.0           14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           20         0.0         0.0         0.0         0.0           21         0.0         0.0	1	0.3	0.0	0.4	0.4
4         0.0         0.0         0.0         0.0         0.0           5         0.0         0.0         0.0         0.0         0.0           6         0.0         0.0         0.0         0.0         0.0           7         0.5         0.0         0.0         0.0         0.0           8         1.4         2.4         0.9         0.7         3.8           10         3.5         0.1         1.9         3.8           11         18.4         24.7         15.3         23.7           12         4.9         1.8         0.0         0.0           13         0.0         0.0         0.0         0.0           14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           20         0.0         0.0         0.0         0.0           21         0.0         0.0         0.0         0.0           22         0.0         0.0         0.0	2	0.1	0.0	0.9	0.5
4         0.0         0.0         0.0         0.0         0.0           5         0.0         0.0         0.0         0.0         0.0           6         0.0         0.0         0.0         0.0         0.0           7         0.5         0.0         0.0         0.0         0.0           8         1.4         2.4         0.9         0.7         3.8           10         3.5         0.1         1.9         3.8           11         18.4         24.7         15.3         23.7           12         4.9         1.8         0.0         0.0           13         0.0         0.0         0.0         0.0           14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           20         0.0         0.0         0.0         0.0           21         0.0         0.0         0.0         0.0           22         0.0         0.0         0.0	3	0.1	0.0	0.0	0.0
6         0.0         0.0         0.0         0.0           7         0.5         0.0         0.0         0.0           8         1.4         2.4         0.9         0.7           9         5.1         2.9         7.4         7.9           10         3.5         0.1         1.9         3.8           11         18.4         24.7         15.3         23.7           12         4.9         1.8         0.0         0.0           13         0.0         0.0         0.0         0.0           14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           19         0.0         0.0         0.0         0.0           20         0.0         0.0         0.0         0.0           21         0.0         0.0         0.0         0.0           22         0.0         0.0         0.0         0.0           22         0.0         0.0	4	0.0	0.0	0.0	0.0
6         0.0         0.0         0.0         0.0           7         0.5         0.0         0.0         0.0           8         1.4         2.4         0.9         0.7           9         5.1         2.9         7.4         7.9           10         3.5         0.1         1.9         3.8           11         18.4         24.7         15.3         23.7           12         4.9         1.8         0.0         0.0           13         0.0         0.0         0.0         0.0           14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           19         0.0         0.0         0.0         0.0           20         0.0         0.0         0.0         0.0           21         0.0         0.0         0.0         0.0           22         0.0         0.0         0.0         0.0           22         0.0         0.0	5	0.0	0.0	0.0	0.0
8         1.4         2.4         0.9         0.7           9         5.1         2.9         7.4         7.9           10         3.5         0.1         1.9         3.8           11         18.4         24.7         15.3         23.7           12         4.9         1.8         0.0         0.0           13         0.0         0.0         0.0         0.0           14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         0.0           16         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           20         0.0         0.0         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           23         0.0         0.0         0.0         0.0           25         0.0         0.0	. 6	0.0	0.0	0.0	0.0
S   S   1   2   9   7   4   7   9	7	0.5	0.0	0.0	
10	8		2.4	0.9	
10	9	5.1		7, 4	7.9
11         18.4         24.7         15.3         23.7           12         4.9         1.8         0.0         0.0           13         0.0         0.0         0.0         0.0           14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           19         0.0         0.0         0.0         0.0           20         0.0         0.0         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         0.0           25         0.0         0.0         0.0         0.0           26         0.8         0.0         0.0         0.0 <trr>         28         0.0         0.0</trr>	10		8.1	1. 9	3.8
13         0.0         0.0         0.0         0.0         0.0           14         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           16         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           19         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           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           25         0.0         0.0         0.0         0.0         0.0         0.0           26         0.8         0.0         0.	11	18.4		15. 3	
14         0.0         0.0         0.0         0.0           15         0.0         0.0         0.0         1.5           16         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           19         0.0         0.0         0.0         0.0           20         0.0         0.0         0.0         0.3           21         0.0         0.0         0.0         0.0           23         0.0         0.0         0.0         0.0           23         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.8         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19         7         1.3         10         9         7           30         0	12	4.9	1.8	0.0	0.0
15         0.0         0.0         0.0         1.5           16         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           19         0.0         0.0         0.0         0.0           20         0.0         0.0         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         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19         7         1.3         10.9         17.8           30         0.0         0.0         0.0         0.0         0.0           31	13	0.0	0.0	0.0	0.0
16         0.0         0.0         0.0         0.0           17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           19         0.0         0.0         0.0         0.0           20         0.0         0.0         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         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19         7         1.3         10.9         17.8           30         0.0         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0         0.0	14	0.0	0, 0	0.0	0.0
17         0.0         0.0         0.0         0.0           18         0.0         0.0         0.0         0.0           19         0.0         0.0         0.0         0.0           20         0.0         0.0         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         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.3         10.9         17.8           30         0.0         0.0         0.0         0.0	15	0.0	0.0	0.0	1.5
18         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         0.0         0.0         0.0         0.3         0.0         0.0         0.0         0.0           21         0.0	16	0.0	0.0	0.0	0.0
19   0.0   0.0   0.0   0.0   20   0.0	17	0.0	0.0	0.0	0.0
20   0.0   0.0   0.0   0.3   3.3	18	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         0.0         0.0           23         0.0         0.0         6.8         2.9           24         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0	19	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         0.0         0.0           23         0.0         0.0         6.8         2.9           24         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0	20	0.0	0.0	0.0	0.3
23         0.0         0.0         6.8         2.9           24         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.3         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0	. 21	0.0	0.0		
23         0.0         0.0         6.8         2.9           24         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.3         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0	22	0.0	0.0	0.0	0.0
24         0.0         0.0         0.0         0.0           25         0.0         0.0         0.0         0.0           26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0					2.9
26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0	24	0.0	0.0	0.0	
26         0.8         0.0         0.0         0.0           27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0	25		0.0	0.0	
27         0.0         0.0         0.0         0.0           28         0.0         0.0         0.0         0.0           29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0					0.0
28         0.0         0.0         0.0         0.0           29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         0.0         0.0					0.0
29         19.7         1.9         10.9         17.8           30         0.0         0.0         0.0         0.0           31         0.0         0.0         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				10.9	
31 0.0 0.0 0.0 0.0					0.0
	J	0.0	0.0	0.0	0.0
		54. 9	33. 9	44. 5	59.5

#### 2.3 Characteristics of Rainfall in 1990

The rainfall data measured by the Seoul central observatory from 1907 to 1991 are shown in Table 2.3-1.

The monthly average rainfall ratios are shown below.

Month	Rainfall	Ratio
January February	2 2 2 2	$\frac{1}{1}, \frac{7}{7}$
March	45	3.5
April May	86	6.4 6.7
June	138	10.8
July August	368 256	28.9 20.1
September	141	11.1
October November	4 8 4 2	3.8
December	$\dot{2}\bar{5}$	2.0

The above record describs that 70% of yearly rainfall is fallen between June and September.

In addition, it is understood by the rainfall record of the year 1990 that we had uncommonly large rainfall in 1990.

The rainfall analysis data of the year 1990 calculated with the Iwai method are shown below.

T 年 e		0.1031 e	3.2745 + 0.1031 c	X + 628.9080 X
1 22				
200	1.8215	0.1878	3.4623	2899.35 2270.4
100	1.6450	0.1696	3.4441	2780.35 2151.4
75	1.5672	0.1616	3.4361	2729.61 2100.7
50	1.4520	0.1497	3.4242	2655.83 2026.9
30	1.2967	0.1337	3.4082	2559.76 1930.9
20	1.1630	0.1199	3.3944	2479.70 1850.8
10	0.9062	0.0934	3.3679	2332.92 1704.0
7	0.7547	0.0778	3.3523	2250.61 1621.7
. 5	0.5951	0.0614	3.3359	2167.21 1538.3
3	0.3045	0.0314	3.3059	2022.55 1393.6
2	0.0000	0.0000	3.2745	1881.48 1252.6

Log(x+628.908)=3.2745+0.1031\*e

x:daily rainfall

e:normal fluent to N year of probability year

When x equal to 2.318mm, e equal to 1.890. Probability year is judged to be over 260 years by Table-4.

Table 2.3-1 Rainfall Record of Seoul Obsevatory

7712	财贷所降						1		r <del>.</del>				T
1907	11.1	5 7	28.4	144.0	131.2	6 . 49.5	157.6	8 181.1	21.8	10	54.4	25.2	合計 862.8
1908	18.2	29.1	12.4	17.0	71.1	107.1	\$30.3	160.5	65.3	35.3	14,4	5, 4	1086.3
1999	7.4	7,9	26.7	106.8	46.2	90.9	180.0	218. I	78.2	28.1	23.7	35.0	827.0
1910	21.8	1,2	32.9	36.8	1.1	183.3	377.8	184.3	79.8	14.1	78.3	9.1	020.9
1911	37.6	65.3	88.7	92.0	59.5	86.7	275.8	72.3	194.0	33.5	97.4	17.8	067.0
1912	2.7	7.3	9.8	125.4	88.8	138.8	391.5 328.1	214.0	19.5	68.9 25.4	32.5	17.0	917.5
1914	93.6	9.5	226.9	76.8	54.5	137.3	289.1	145.3	77.9	78.4	56.0	17.3	262.5
1915	45.3	37.6	22.2	53.0	159.4	136.4	464.3	423.5	128.9	40.9	47.3	9.4	3578.3
1916	53.2	19.2	5.1	218. J	127.0	334.1	303.8	133.3	397.1	20.0	83.5		718.3
1917	14.0	30.0	30.4	31 I 52 8	52.0 100.9	72.0 157.3	223.9	299.7 315.9	195.4	25.8	22.6	32.4	981.7
1919	19.2	7 7	10.6	58.3	125.5	203.2	265.2	218.8	113.5	64.6	30.7	28.0	1176.3
1920	27.1	12.0	18.5	47.3	93.8	160.7	491.3	3 4 5 . 9	49.6	12.4	48.7	29.8	1747.1
1921	14.5	36.0	19.6	72.5	87.6	131.4	325.6	109.0	93.0	28.2	17.5	35.7	970.6
1922	32.7	81.2	5 9 . 3 6 3 . 8	28.0	58. a 44. \$	103.0	270.0	5 4 7 . 6 2 4 5 . 8	130.5	38.4 59.5	53.0	27.5	1562.1
1324	14.0	76.2	19.6	95.3	87.0	128.4	431.0	13.3	81.5	34.3	45.1	15.5	014.2
1925	5.8	17.5	41.8	28.1	190.6	124.3	832.9	421.1	160.1	30.0	69.9	38.5	1960 6
1926	21.2	9.4	11.8	82.4	101.2	34.3	874.7	314.7	175.5	109.0	29.4	21.9	1821.5
1927	70.5 59.5	8.2	25.4	118.6 25.1	118.2	14.6	366.8	303. 9 229. 1	40.6	76.6	22.8	. 59.5	282.5
1929	28.1	1 9	12.9	95.3	44.2	158.4	192.0 308.9	264.8	73.6	12.9	18.5	16.1	1055.3
1930	2.4	49.1	92.3	101.5	114.2	58.6	830.8	175 4	62.8	102.5	47.2		1644.1
1931	35.6	36.9	34.7	105.3	175.8	133.7	231.6	443.6	53.8	14.0	50.1	79.0	1394.1
1932	5.8	20.6	28.1	28.5	97.2	80.2	214.2	274.5	64,1	88.7	24.8	33.4	940.1
1933	6.4 5.3	18.6	17.2	83.5	82.1	198.7	396.7	177.2	204.9	17.5	32.5	31.0	1395.3
1935	11.5	4.2	12.4	66.3	90.6	170 6	528.2	116.7	85.3	13.2	63.3	5.0	197.4
1936	4 . 5	18.2	26.6	142.9	27.1	65.1	210.0	667.6	253.0	3.5	44.2	67.1	1525 8
1937	15.8	35.2 21.2	37.1 94.4	147.7	68.1 135.6	72.4	219.7	156.9	184.6	46.3	18.6	21.2	1053.8
1939	12.3	7.4	20.5	5 9 . 0	105.5	110.1	87.6	49. B	128.5	98.9 63.J	22.5 62.1	26.3	1059.3 639.7
1940	7.4	45.5	18.8	60.5	79.5		1345.2	69.7	313.5	20.2	35.7	47.3	2135.1
1941	24.1	8.7	82.9	48.5	180.7	139.7	174.3	255.7	30.1	67.3	87.5	13.2	1093.7
1342	10 4	9.5	132.4	64.3	27.2	61.1	154.5	338.4	277.0	35.8	32.3	7.9	1131.0
1943	2.4 4.0	14.6	41.2	29.9	73.2	107.9	125.0	36.8	113.6	85.1 19.9	30.8 84.8	13.0 17.1	646.6
1945	2.2	3.2	121.9	39.4	109.4	317.7	479.6	208.8	183.1	63.3	3.5	29.5	1561.7
1918	25.5	12.8	80.9	37.7	70.8	538.8	177.9	259.4	128.8	74.9	1.2	17.0	105.9
1947	25.3 82.9	12.3	56.5	80 2 3 £ 2	44.0	118 6	610.1	320.5	120.7	10.5	30.3	74.1	1495.3
1849	25.7	20.8	51.6 15.8	37.9	87.6	358.5 40.4	141.5	309.2 95.1	141.8	5 4 . 0 4 1 . 7	15.6	50.5 10.4	633.7
1950	37.0	11.4	9.0	41.5	37.4	109.9	222.4	85.6	1			10.1	614.2
1951	İ												0.0
1952	2.5	4.1	112.1	47.4	86.4	198.5	3 \$ 0 . 9	403.3	8.7		12.0	20 7	0.0
1954	14.0	111.3	4.9	59.4	61.5	229.9	587.5	209 0	53.2	84.0 45.1	19.6	30.3 40.4	1382 2
1955	12.3	9.6	15.7	55.0	80.7	316.5	397.5	60.0	187.9	26.7	56.3	12.6	230.8
1956	6.3	28.6	139.3	85.8	72.4	417.5	523.8	17.2	345.0	29.7	16.1	10.3	1701.1
1957	43.1 55.0	14.7	16.7 25.5	105.9	60.5	32.7	383.8	286.5	243.1	83.6 120.1	20.5	76.8	1219.3
1959	3 9	58.0	163.6	114.7	91.2	70.8	323.1	283.0	142.9	57 6	27.9	34.1	370.8
1960	4 8	4.0	113.6	19.0	135.4	295.9	313.2	138.1	63.5	7 9	76.5	15.7	1187.4
1961	18.0	8.8	40.8	123.8	102.1	11.1	267.8	360.6	295.1	48.6	57.8	45.6	1446.5
1962	1.2	25.7	18.5 57.3	31.6 221.1	12.5 186.7	110.3	180.0	133.2	236.4	36.8	52.2	27.8	985.2
1984	20.3	27.1	37.3	338.5		383.7	513.6	126.5 216.5	382.7	32.1 10.4	26.8	12.8	1626.5 793.9
1985	19.1	2.4	16.8	10.4	11.8	23.B	631.6	319.4	27.0	63.7	85.0		216.3
1986	9.7	29.4	90.5	35.7	37.1	179.8	897.7	272.9	302.8	74.9	81.6	6.8	2018.8
1967	24.6	54.6 12.5	88.2 58.7	93.1	59.8 53.4	115.3	283.3	362.8	158.1	26.5	53.3		248.9
1969	62.2	59.2	13.7	219.3	255.2	31.8	345.3	455.1	230.0	18.4	54.2 28.4		1288.8
1970	5.9	49.2	1.2.7	7.5	84.0	219.8	425.8	192.0	465.1	153.1	42.2	21.1	708.2
1971	18.0	25.5	15.9	51.2	100.5	131.6	513.7	211.2	157.4	12.5	11.9	14.9	1266.3
1972	73 1 17 7	32.1 8.0	58.1 9.1	22.6 104.1	66.3	25.8	192.3	829 3	1.51.9	78.0	12.5 23.8	2.3	604 9
1974	8.0	11.9	11.4	141.4	168.3	56.3	274.7	208.2 355.1	37.5 107.6	25.1 30.9	7.3	8.0	843.8
1975	10.6	3 , 5	53.6	102.5	68.1	15.7	408.1	89.2	169.3	19.4	30.8	21.9	1022.7
1976	0.3	93.6	3 , 9	49.2	37.1	33.0	186.1	333.8	35.0	32.7	1.5	24.2	816.4
1977	0.6 5.1	0.2	28.8 61.8	189.6	82.8	12.0	393.5	123.6	57.5	15.0	56.1		014.4
1979	7 4	45.0	62.5	139 5	24.2	368.5 347.7		3 1 1 1 1 9 4 2	102.5	33.0 3.5	7.2	28.3	1273.1
1980	28.0	5.0	32.8	216.7	90 3	118.8	259.2	331.5	58.3	14 9	10.6	46.3	242.4
1981	21.0	12.0	55.4	55.4	80.8	109.1	463.8	192.9	129.0	34.5	46.9	16.0	
1982	28.0	2,9	46.0	8.1	134.6	15.7		255.8	4.8	46.5	164.8	48.5	949.3
1983	11.1	11.7	67.5 11.4	113.4	69.0 35.2	27.4	198.6 260.9	132.2	253.4	8 2 . 2 2 J . 4	28.7	9.9	1205 1
1985	10.7	14.9	57.8	69.0	177.4	85.4	185.2		171.7	177.8	82.4	23.2	1239.8
1986	11.7	8.2	44.3	20.5	71.5	117.1	351.8	232.9	101.0	79.5	39.3		109.9
1987	43.4	36.2	34.2	55.3	126.6	130.3	651.2		61.1	21.9	66.8	2.6	1751.4
過去平均 1990	22.1 52.2	22.1 61.8	92.3	80.5 94.2	86.0	138.0	368.2 486.5		141.3	47.6	41.9		3273.2
					1 0		2 V H . 3		570.1	0.0	14.5	0.0	2318.1

Table 2.3-2 Normal Fluent to N Probability Year

$\frac{100}{W(\%)} = N \to$	E
** *	

							1		
N (年)	e	// (年)	e	<i>》</i> (年)	e	N (年)	e	N (年)	e
2	0.0000	37	1,3622	72	1,5560	107	1.6629	260	1, 8847
3	0.3045	38	1, 3702	73	1, 5597	108	1,6654	270	1, 8936
4	0.4769	39	1, 3782	74	1, 5635	109	1,6678	280	1.9022
. 5	0.5951	40	1, 3860	75	1, 5672	110	1.6701	290	1,9105
6	0.6858	41	1, 3932	76	1,5709	111	1, 6725	300	1,9184
. 7	0.7547	42	1, 4008	77	1,5745	112	1,6749	310	1,9260
8	0.8134	43	1, 4079	78	1,5780	113	1.6772	320	1, 9335
. 9	0.8634	44	1, 4145	79	1, 5815	114	1.6795	330	1, 9407
10	0,9062	45	1, 4213	80	1, 5849	115	1.6818	340	1,9476
- 11	0.9442	46	1, 4276	81	1, 5883	116	1, 6841	350	1, 9542
12	0. 9780	47	1, 4342	82	1, 5917	117	1, 6863	360	1,9606
13	1,0084	48	1, 4404	83	1, 5950	118	1 6885	370	1.9672
14	1,0361	49	1. 4464	84	1, 5982	119	1,6907	380	1.9733
15	1.0614	50	1, 4520	85	1,6014	120	1,6929	390	1, 9792
16	ι. 0848	51	1, 4578	86	1.6046	125	1, 7034	400	1.9850
17	1. 1065	52	1, 4634	87	1.6077	130	1.7135	410	1.9906
18	1. 1263	53	1, 4693	88	1,6108	135	1, 7232	120	1.9961
19	1, 1455	54	1. 4746	89	1, 6138	140	1,7324	430	2,0014
20	1, 1630	55	1, 4798	90	1, 6168	145	1.7414	440	2,0067
21	1, 1798	56	1, 4849	91	1,6198	150	1,7499	450	2.0118-
22	1, 1955	57	1.4901	92	1, 6228	155	1.7582	460	2.0166
23	1. 2102	58	1, 4952	93	1, 6257	160	1,7662	470	2,0213
24	1, 2246	59	1, 4999	94	1,6285	165	1.7739	480	2.0260
25	1, 2380	- 60	1,5047	95	1, 6314	170	1.7814	490	2.0305
26	1, 2509	61	1, 5094	96	1.6342	175	1, 7885	500	2.0350
27	1, 2639	62	1.5141	97	1, 6369	180	1, 7955	550	2,0565
28	1. 2749	63	1,5180	98	1.6396	185	1, 8023	600	2.0757
29	1, 2861	64	1, 5231	99	1.6423	190	1,8089	650	2.0931
30	1, 2967	65	1.5274	100	1.6450	195	1,8153	700	2, 1094
31	1, 3069	66	1. 5317	101	1,6476	200	1,8215	750	2, 1242
32	1.3170	67	1, 5359	102	1.6502	210	1, 8332	800	2, 1375
33	1.3270	68	1.5400	103	1,6528	220	1,8446	850	2, 1506
34	1, 3359	69	1,5441	104	1.6554	230	1, 8554	900	2. 1630
35	1,3453	70	1.5481	105	1.6579	240	1, 8656	950	2, 1750
36	1. 3537	71	1, 5521	106	1.6604	250	1, 8753	1000	2, 1850
_ <del></del> '							7		

#### 2.4 Rainfall Record of Dawnpour in September 1990

The downpour on September 10 and 11 in 1990 greatly damaged the Seoul Metropolitan. The rainfall record measured at the new rainfall recorders at that time are shown below.

Table 2.4-1 Rainfall Record in September 1990

Station name	Daily (mm)	Maximum of 24 hours (mm)	Maximum of 1 h. (mm)
Kookmin Univ. Tokjang Primary School Seoul National Univ. Anyang Middle School Songbulsa	252.0	310.0 (Sep. 10 12:30 to 11 12:30) 443.0 (Sep. 10 15:00 to 11 15:00) 291.5 (Sep. 10 15:00 to 11 15:00) 290.0 (Sep. 10 18:50 to 11 18:30) 190.5 (Sep. 10 11:20 to 11 11:20)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Average	260.9	305.0	

cf: Assume that an end of daily rainfall is 9 PM.

The probability analysis result of the above rainfall record using the past rain record is as follows.

Table 2.4-2 Day Rainfall at Seoul Observatory

年 月 日	日雨量(1888)	年 月 日	日雨量(mm)
1972,08,18	273.2	1964,09,13	126.0
1920,08,02	354.7	1974.08.03	124.8
1915.08,22	254.7	1969,05,04	122.3
1940,07,05	234.9	1955,06,24	122.2
1966,07,15	226.3	1977,07,03	120.4
1925,07,17	220.7	1923.08.01	119.2
1956,06,22	219.9	1929,08,16	118,1
1930,07,04	208.6	1946,06,26	117.2
1978,06,25	204.0	1938,09,03	115.5
1933,07,28	189.5	1948.09.08	114.9
1931,08,19	188.5	1936,08,11	112.6
1971,07,16	185.0	1937,04,31	110.2
1916,09,10	175.3	1932,08,29	. 108.0
1963,06,22	169.2	1961,09,01	103.1
1912,07,18	165.5	1928.08.29	102.9
1942,08,05	165.4	1959,07,01	101.9
1970,09,17	164.8	1975,07,25	100.0
1947,07,23	159.4	1927,07,14	97,0
1935,07,22	155.0	1967,07,20	96.2
1910,07,06	153.5	1934,09,04	96.0
1957,07,07	153.2	1941,08,10	94.3
1914,03,06	153.1	1924,07,23	92.2
1918,08,16	150.6	1979,09,02	92.0
1922,08,22	150.4	1976.08.14	88.0
1926,07,16	150.1	1917,09,03	87.6
1968,08,23	149.3	1950,07,05	76.6
1919,07,06	147.9	1962,09,06	74.7
1945,07,15	147.1	1944,08,11	69.2
1958,07.01	145.3	1913.08,18	68.5
1965,07,20	144.9	1973,04,23	60.0
1908,07,21	140.9	1949 09 16	58.5
1981,07,01	137.0	1939,06,07	54.6
1960,06,28	135.3	1909,04,18	54.1
1980,08,13	131.0	1943,07,13	48.3
1921,07,06	128.5	1911,04,24	47.9
1954,07,28	126.0		

Table 2.4-3 Probability Analysis Result by Iwai Method

T年	e	0.1947e	2.2278 + 0.1947e	X + 40.3650	_ X
	•				
200	1.8215	0,3546	2.5824	382.30	341.9
100	1.6450	0.3203	2.5481	353.26	312.9
75	1.5672	0.3051	2,5329	341.11	300.7
5 0	1.4520	0.2827	2,5105	323,97	283.6
3 0	1.2967	0.2525	2,4803	302.20	261.8
20	1.1630	0 2264	2.4542	284.58	244.2
10	0.9062	0.1764	2.4042	253.63	213.3
7	0.7547	0.1469	2.3747	236.97	196 6
5	0.5951	0.1159	2.3437	220.65	180.3
3	0.3045	0.0593	2.2871	193.69	153.3
2	0.0000	0.0000	2.2278	168.97	128.6

 $\log(x+40.365) = 2.2278+0.1947*e$ 

TOR(X140.000)-8.	221010.104140			
x:rainfall per day(mm)	e:Normal	fluent to p	probability	year N
if x=255.0mm then	e=1.246			
x = 377.0 mm	e = 2.017			
x = 252.0mm	e=1.223		•	
x = 255.5 mm	e=1.249			
x=165.0mm	e=0.435			

Rainfall probability is shown below according Table-4.

Kookmin Univ.	(255. UMM)	•	1/ 20
Tokjang Primary School	(377.0mm)	:	1/460
Seoul National Univ.	(252.0mm)	•	1/ 24
Anyang Middle School	(255.5mm)	:	1/ 26
Songbulsa	(165.0mm)	:	1/ 4

# 2.5 Rainfall Record

Rainfall records are represented in Table

Table 2-5-1 Rainfall Records of Existing Stations

1990年 1月

日時	颬	城也	漢峰	陽川	九老	永登浦	第	江南	光明	安養	軍浦	儀旺	果川	城南	成佛寺	国民大	州大	安黄中	達但这
1		<u> </u>	<del> </del>		ļ	ļ		<u> </u>	ļ	<b> </b>	ļ <u>-</u>		ļ <u>.</u>			ļ	<u> </u>		<del> </del>
2	<b> </b>	ļ <u>.</u>	<del> </del>	<del> </del>	<b> </b>	<del> </del>	ļ	ļ <u>.</u>	ļ	ļ <u>.</u>	<del> </del>		ļ. <del>.</del>		<del> </del>		÷		<del> </del>
	<u> ———</u>	ļ	<del> </del>		<b> </b> -	<del> </del>	ļ	ļ				<b> </b>		<b>-</b>	<b></b>				<del> </del> -
5	<u>-</u>	<del> </del>	<del> </del>	<del> </del>	<del> </del>		-	<del> </del>	2.0	<del> </del>	<u> </u>	ļ	3. 5	3. 5	<del> </del>		l	<del> </del>	<del></del>
6	<del> </del>	├	<del> </del>	<del>}</del>	<del> </del>	<del> </del>			2.0			<u> </u>	3. 3	3. 3			<del> </del>	<del> </del>	<del></del>
7			<del> </del>	<del> </del>	<del> </del>	<del> </del>			<del> </del> -				<del> </del>	<b></b>			l		
8		<del> </del>	<del></del>	<del> </del>	<del> </del>								· · · · ·					<b> </b>	
9		<del></del>		··				· · · · · · · · · · · · · · · · · · ·	4. 5		20.0	4.1	<u> </u>			l	<del> </del>	<b></b>	
10			<del>                                     </del>	<del>                                     </del>	-	1			14.5	20.0		13. 5	21. 0	22.0			·		
11		<del> </del>	<del> </del>	1														<b> </b>	<u> </u>
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13				<b>†</b>	<b></b> -									-					
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16																			
17						2.5													
18						[]			2. 5	3. 2		0.9	2.0	0.5					
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28	— <del>-</del>					13.5			-,,	10.0	10.0	0.0	10.0		1				
29 30		·				11.5			11.5	13. 7	10.0	0.3	10.0	10.0					
30						1.5			2. 5		·	5.1	1.1	14.7					
31	-0.0	0.0	0.0	- 0 0	0.0	1.5	- 0 0	0.0	1.0	70.0	20.0	11.4	1.5	32. 5			0.0	0.0	0.0
合計	0.0	0.0	0.0	0.0	0.0	15. 5	0.0	0.0	38. 5	36. 9	30.0	45. 3	40. 9	91. 2	0.0	0.0	0.0	0.0	0.0

	2月															1.	1 1 44	: -	
日時	東大門		道峰	陽川	九老	永登浦	瑞草	江南_	光明	安黄	軍浦	儀旺	果川	城南	成佛寺	国民大	/沙大	安養中	德在校
		2.5				1.0	0.5	0.5	0.5	ļ			1	3.8	T		T	T	1
2	l	2.5	<u> </u>			L									1	1			
3		3. 5		·											1			1	
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5		1		T		0.5										ľ	i		t
6	l	0.5				1.0			[						ļ		<del>                                     </del>		
7					T	1.5									<del> </del>	,		<b>†</b>	i
8						1.5	· · · · · · · · · · · · · · · · · · ·	1							1	-	1		<del> </del>
9	[			1	[												l		
_ 10	13.5	21.5	17.5		2.0	14.0	14.0	14.0	13.0	16. 1	18.4	14.0		19.0				†	<del> </del>
-11		0.5	0. 5			0.5	1.0	1.0						1.0	<u> </u>			<del> </del>	
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13	, .			1	1					- :				l				<del>                                     </del>	
14				· ·															
15	5.0	5.0	1.5	3.5	1.0	3.0	5.0	5. 0	2. 5		5.0	3.5		3.5		<b></b>		<del> </del>	
16					5.0					6. 5		0.3		<u>-</u> -	$\vdash \vdash$				
17					5.0		1.0							l	-		<del> </del>	<del> </del>	·
18	24.0	26. 0	29.0	17.0	7.0	16.0	22.0	20.0	10. 5	10.8	13.5	10. 9	12, 0	20.0			<del> </del>	<del> </del>	
19	1.5	5. 7	12.0	3.0		1010	7.0	7.0	2.5	17.7	4.5	5.1	5.0	7.0			ļ ————		<b></b>
20				<del></del>	5.0	0.5			2.0	11.1		U. I	0.0			<u> </u>	<b></b>		
21				6.6	9.0														
22	9. 0	12. 5	11.5	5.0	9.0	9. 5	2, 0	2.0	10.5	12. 7	17.0	12.5	11.0	14.0			<del></del>		
23	4.0	4.0	1.5	2.4	3.0	2. 5	4.5	4.5	3.5	6.5	4.5	5, 8	4. 0	5.5					
24	0.5	0. 5		0.5	· · ·					0.0	7. 3	3, 0		3, 3					
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部	57.5	85. 2	73.5	38. 5	46.0	52.0	56.0	54. 0	42.0	71 1	E2 6		30.0	20.0	- 0 0		0.5	1.0.0	ا ــــــــا
印刷	41.3	00. 6	10.0	30. 3	40. U	06. U	30.0	J4. U	43.0	71.1	62. 9	52. 1	32.0	73.8	0.0	0.0	0.0	0.0	0.0

日時	3月	7FN. 1	- 1000 W	74 (d. 11	ratisk i	3. <b>3%</b> SÆ T	154135	江南	光明	安養	軍浦	儀旺	果川	城南	化维生	国电子	Pilek	安養中	<b>复非校</b>
日時	果大鬥	城北	道锋。	[M/I]	九老	水延川	715	17 HT	21,221	×335	_35(0)	BALL.	75	2103	ESSUESI	15 TV	2.77.23	2631	بصطفانين
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10													<del>                                     </del>	07.5	ļ	ļ	<del> </del> -		
11	27. 0	31. 5	18.5	30. 0	35. 5	26, 5	30, 0	31.5	23. 5	3.1	18.0	25. 7 7. 4	43.5		ļ	<del> </del> -			
12	10. 5	12. 5		6.0	ļ	9.5	11.5	10.5	8. 5	36. 4	11.0	1.4	<del> </del>	6.0	ļ	<del> </del>		<u> </u>	
13	11						2.5	3.5	5.0	7. 4	6.4	6.0	6.0	0.3	<u> </u>		<b></b>		
14	4.0	4.5	3.5	5.0	4. 2	4. 0	3, 5	3.3	3.0	7, 9	0.4	0.0	0.0		<del> </del>				
15				3.0	ļ			<del> </del> -									<del> </del>	<b></b>	
16				J. U	3. 4	3, 5	6.5	6.5		3.5	3.0	2. 0	<del> </del>	4.0		<del> </del>	<del> </del>		ļ
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22				6.0												Ļ		<u> </u>	
23	4.0	6, 5			5, 5	4. 5	2.0	7.5		0.9	1.5	4.0	<u> </u>		<u> </u>	ļ <u>.</u>	<u> </u>		
24	3.0	2. 5				1.0	2.0	1.0	1	5. 1	4.0	4.0	<u> </u>	2.5	<del> </del> _		ļ		ļ
25					L				L.—	<u> </u>	ļ <u>.</u>	<u> </u>		ļ	<b>Ļ</b>	ļ	<b></b>	ļ	
26				7.0					L	ļ	l	ļ <u>-</u>	ļ	<b> </b>	<b> </b>	<del> </del>	<del> </del> -	<del> </del>	<u> </u>
27		0.5	2. 5	17. 0	14.0	1.0	0.5	5.0		<u> </u>	2.5	00.0	100.0	1.0	-	<b> </b>	<b> </b>		<del> </del>
28	20.0	20.0	19.0	2.0	17.8	17.5	31.0	23.0	<u> </u>	20.7	23.5	23. 3		24.0	1	<del> </del>	<del> </del>		
29	7.0	4.0	5.5	0.5	3.4	4.0	3.0	3.5	<u> </u>	20.0	7.5	5. 3	6.0	5.0	<del> </del>	<del> </del> -	<del> </del>	·	<del> </del>
30	0.5	1.0	0.5				0.5	1.5	<u> </u>	0.5	-	1.0	<del> </del>	ļ	<del> </del>	<del> </del>			
31					1000		00.6	00.5	27.0	97. 6	77.8	78. 7	78. 5	76.5	0.0	0.0	0.0	0.0	0.0
合計	79.0	83, 0	49.5	78. 5	83.8	71.5	90.5	93.5	37.0	97. 0	11.8	78.7	1 /0.3	1 /0.5	0.0	<u> </u>	1 0.0	0.0	1 0.0

部	79.0	83.0	49.5	78. 5	83. 8	71.5	90. 5	93.5	37.0	97. 6	77. 8	78. 7	78.5	76. 5	0.0	0.0	0.0	0.0	0.0
rint t	4月 [大門]	H IF	道缝	陽川	1. 34	永登浦	四本	江南	光明	安養	軍浦	俄旺	果川	线前	成佛寺	国民大	沙沙大	安養中	技术技
	FVTT	25:14	)13 KJK	1977	266	业市印	103	17.141	21:21	28	-T-101	.H52.1	75.1	2317	PORT	i i	7.77	231	مندا
2														1 .					1
3																			
4														· · ·					<u> </u>
- 5							1,1									<u> </u>	ļ. <u></u>	<u> </u>	<u> </u>
6					6.8		v:								<u> </u>		<u> </u>		ļ
7	17.0	13.0	21. 5	11.5	9.0	2.5	15.0	15.0	11.0	6.6	14.5	12. 5	16.0	15.0	ļ	<u> </u>	ļ		ļ
8			- 1			ļ		1 1		<u> </u>		1.		ļ <u>.</u>	ļ		ļ <u>.</u>	· · · ·	<b></b>
9						7.								l		<u> </u>	-	<u> </u>	<del> </del>
10					00.0	1.44		20. 5							<b></b>		<del>                                     </del>		-
11 12	52.5	64.5	E4 0	54.0	23. 3 20. 0	38. 5	53.0	42.0	41. 5	42. 1	43.0	32. 0	41.0	47.0					1
13	1.5	64. 5 2. 5	54. 0 2. 3	34.0	7.0	30. 3	4.5	6.0	0.5	2. 5	43.6	JE. U	41.0	1.0					
14	6.5	6.0	10.5	7.5	2.0	4.0	δ. O	· · · · ·	5. 5	3.8	13.5	12.0	9. 0	10.0					
15	1.5	0.5	0.5	0.5		1.0	0.0	2.0	0.5		0.5				1				1
16	1.0	0.5	0.5	<u> </u>				1.0		5. 4	1.5	1.0		1.0			1.0		1
17																			
18				7												<u></u>	1, 5		
19	'										1 1 1 1 1						<u> </u>	L	ļ
20																	ļ		ļ
21											0.5	10.5		10.0		<u> </u>	ļ		<del>                                     </del>
22	3.0	3, 5	3.7	4.5	4.2	3.5	4, 0	3.0	3.5	4. 2	3.5	2. 5	2.0	3.0	ļ			ļ	
23	3.0	2. 5	3. 5	2. 5	2.5	3. 5	3, 5	3. 5	2. 5		1.0	2.0	3.0	-		<del> </del>	<del> </del>	ļ	+
24		L				1 1 1				- : "					<del></del>		-	<del>                                     </del>	1
25 26	2 2		1,1 °C	1 12			ta a sa				2.5			<del> </del>	<del>                                     </del>	<del> </del>	<del>                                     </del>		<del> </del>
27			3 3	1 1/21				4.0				<u> </u>			-		<b></b>	<del> </del>	1
28	7.0	5, 5	3.8	13. 5	14.0	10.0	19.5	3.0	23.5	9. 8	20.0	16. 0	<del> </del>	28.0	1		<del>                                     </del>	<b>†</b>	
29	-1.9		3. 0	10.0	17.0	10.0	20.0	V. 0	20.0	<u> </u>				<u> </u>					
30	-						<del></del>	1		F 1842 1	100				<del> </del>			T	1
31								- : T				janua.							
合計	92.0	98. 5	100.3	94.0	88. 8	82. 0	105. 5	100.0	88. 5	74.4	97.5	78.0	71.0	105.0	0.0	0.0	0.0	0.0	0.0

	5月													_					
且時	東大門	城北	道峰	陽川		永登浦	瑞草	江南	上光明	安養	軍浦	(KIE	果川	城南	成佛寺	国民大	/////大	友養中	捻往校
1	5. 5	8.0	8. 2		17, 0	13, 0	15.5	11.0	15.0	11. 7	14.0	20.0	15.0	14.5					
2	10.5	8.0	7, 3	22.0	8. 0	6.5	10.5	7. 0	5. 5	14.1	12, 5	12.0	8. 5	7.0			L		
3		7, 0	10.6	8.0	2. 0	7, 0	9.0	8.5	7.0	6.7	7. 5	6.0	4. 5	7. 5			<u> </u>		
4	0.5	0.5	0.5	ļ		0.5	0.5	1.0	0.5			<u> </u>				I		L	
5	ļ		ļ					L	l									<u> </u>	
6		l			1.0		<b> </b>				L								
7	6.5	7. 5	2. 2	6.0	2. 2	3.0	19.0	4.5	8.0	8, 5	22.0	11.0	11.0	6.0			Ĺ		
8	<u> </u>									L							l	l	
9	<u> </u>	<b>.</b>		<u> </u>								L				ſ			
10	3.5	3.0	11.5	15.0	12.0	17.5	32.0	19,0	6.0		1.0		1.0					J	
11	8. 5	12.0	1.9					1.0	1.5	2. 5	1.0	1.0	6, 0	1, 5		T	1.5		
12						6.5													
13	19.0	17.0	11.1	13.0	26.0	21.0	. 28. 0	1	27.0	12. 2	5.0	4.0	13.0	16.5					
14	1. 5	1.0				0.5	0.5							0.5					
15							0.5												
16							2.0	43.0											
17	9. 5	7.5	8.8	9. 0	8.0	7. 0	17. 0	14.0	8. 0	2. 7	12.0	6.0	8.0	8. 0					
18	5, 5	8.0	12.6	7. 0	10.0	8. O		4.0	10.5	17. 3	8.0	8. 5	7.5	4.0					
19	1.0	1.0	3. 5	3.0	6.5	3.0		7. 0				4.0							
20	2. 5	1, 5	1.8				7.0		6. 5		10.0		10.5	6.0				l	
21																			
22																			
23							I												. 1
24		]								13.7	16.0	11, 0	1.0						
25																			
26																			
27															. :				1
28								· · · · ·							7 .				
29																			
30		1	1		16.0		0.5				0.5					****			
31	21.0	22.0		18.0	3. 2	15. 5	20.5		17.0	19.5	21.0	17, 0	16.0	16, 0	•				
合計	102.0	104.0	80.0	101.0	111.9		162.5	120.0	112.5		130. 5	100.5	102.0	87.5	0.0	0.0	0.0	0.0	0.0

	6月	35														_			
日時	東大門	城北	道峰	陽川	九老	永登浦	<b></b>	江南	光明	安養	軍浦	儀旺	果川	城南	成佛寺	取大	沙冰大	安養中	党在校
	0.5		<u> </u>	ļ	<u> </u>				1.0	1.5	0.5		1.0	Ĺ			I	Τ	
2			ļ		<u> </u>	1	<u></u>		<u> </u>	<u> </u>			<u> </u>						
3			L	ļ		1	L		<u> </u>		<u> </u>	1							
4	ļ	<u></u>	<u> </u>				<b>1</b>	l		<u> </u>	<u>L</u>		l	L					
5	ļ	<u> </u>	<u> </u>	ļ			<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		L.		1	
6	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ		ļ	<u> </u>	l			<u> </u>		3.0	<u>i</u>	<u> </u>			
7				l	29.0	<u> </u>											1		
8	35. 5	40.0	47.0	1.5		31. 5	38. 5	32.5	32. 0	15, 6	27.0	25. 0	25.0	28.0					
9	<u> </u>	5. 2	4.5	34.5		6.5	1.5	8.0	6.0	15.9	5.0	3, 0	2.5	5.0		1.5			
10	<u></u>					ļ		<u> </u>		4.0	0.5	0.5	1.0	2.0					
11			l.:	L		L	0.5			1. 1						1			
12	1.0		<u> </u>	1.0	ļ <u>.</u>		0.5					1 11.	0.5	L					
13			<u> </u>	L	<u> </u>			<u></u>		L									
14					L	L	l					4	11.5						
15	48.0	61.5	39.0	1.5	8.0	2.5	57. 5	58.5	1.5	4.8	7.5	13. 5	12.0	64.0	1,1,1		L		
16		0.5									<b> </b>				L				3.5
17				ļ. <u>.                                   </u>	2.0		<u> </u>			145	L		<u> </u>		L				
. 18	23.5	47. 0	66.5	53.0	56.0	47.5	31.0	30.5	37.0	14. 9	14.0	16.0	21, 0	26.0					
19	41.0	39. 5	57. 5	63.5	ļ	43.0	54. 5	58.0	57. 5	62. 9	81.0	73.0	65.0	7.1					de re
20	14.0	25. 0	20.0	23.5	113.0	22.0	22.5	28.0	40.0	23. 9	24.0	20.0	17.0	63.0	113.5	127. 5	127. 5	114.5	94.5
21	89.0	100.0	119.0	87. 5		72. 0	90.5	105.0	82. 5	120.0	86.0	62.0	98.0	37. 0		0.5	0.5		0.5
22					2.0		0.5		<u> </u>		100	41.		1	11.0	1. 5	1.5		2. 5
23		3.5	6. 5		59.0		5.0	5.0	1.5	4.6		À	1.0	1.0	102.5	105.0	69.0	46.5	24.0
24	92. 5	124.0	158. 0	87.0	63, 0	71.0	106.0	82. 5	71.5	58. 6	54. 5	49.0	49.0	77. 5	99.0	89. 5	62.0	69. 5	74.0
25	75.0	87.0	91.0	93.0	37.0	78.0	95.0	79.0	76.5	69. 9	69. 0	67. 0	81.0	82. 5	61.0	45.0	44.5	33. 5	33.0
26	15. 5	13. 5	26.0	20.0	6.0	21.0	13.0	18.0	19.5	20.0	24.5	: 15.0	32.0	13.0	10.5	8, 0	7.5	8.0	S9. 5
27		0.5	1.0		<del></del>		1.0			4.0	6.0	2.0	3.0	1.0					0.5
28	12.0				8.0						24	16.0			9.0	7.0	9. 5	12.0	11.5
29		7.0		13.0		11.0			2.0	9.3	14.0			18.0					
30																			
31	إينيب															11.19.5		2. 2. 4.1	1.3.4
础	447.5	554. 2	636.0	477.5	383.0	406.0	517. 5	505.0	428.5	431.0	413.5	362.0	409.0	418.0	406, 5	384.0	322.0	284. 0	250.0

	7月																		
日時	机机	城比	道峰	陽川	九老	水贫油	瑞草	江南	光明	安氏	單油	儀旺	果川	城南	成佛寺	退大	<b>炉</b> 状	安養中	124
1	<u>-</u> _	10.0	17. 0	10.0	13.0	11.0	8. 5	6.0	7.0	10,0	8.5	2. 5	11.0	10.0	00.0	100	10.5	100	١.
2		2.0	3, 5	2.0	13.0	1.5	3.5	4.0	7.0	3, 5	3.5	0.5	11. 0 2. 0	16.0	22. 5 3. 5	19.0	18. 5 0. 5	13.0	1
4		0.5	0, 0			1	<u></u>					0.0	2.0		0. 5	2.0	0, 3	0. 5	+-
5					3.0	7	0.5				1		1.0		<b>!</b>	1.0	0.5	1.5	✝
6	17.5	1.0	0.5	5, 0	3.0	5, 5	2. 0		2.5		1.0				6.5	2.0	0.5	ļ	1
7		27. 0	29.0	19.0	15.0	19.0	27. 5		20.5	13.0	8.0	3.5	13.0	8.0	27.0	29.0	32, 0	23.5	j
8	5. 0	6.5	13, 0	5.0		5, 0			9.0	6.0	6.0			11.0					
9	1.5		~ -	<u>-</u>	27 0	- A		<u> </u>					<u> </u>						ļ
10	40.5	0.5	2.5	2, 5	17.0	5.0	1.5	16.0	2.5	64.0	37.0	1	15.0		13, 0	17.5	42.5	35.0	. 4
11	43. 5	30. 5 8. 0	37. 5 13. 0	43.0 6.0		32. 0 5. 5	52. 0 9. 0	80.0 8.0	43.0 6.5	54. 0 7. 0	25.0 9.0	47.6	45.0	66.0	51.5	27. 5	16.0	12.5	
13	10.0	0.0	15.0	30.5	3.0	J. 3	9. U	0.0	0. 0	7.0	9.0	10.0	7. 0	8.0	2.0	1.5	3.0		+
14	27. 5	32.0	36. 0	30. 3	28.0	28. 5	28. 0	31.0	39.0	57.0	51.0	10. 6	45.0	44.0	44. 5	35.5	38.0	2. 0 38. 0	+:
15	7.0	4.5	12. 0	3.5	26.0	2.0	2.0	1.5	8.5	25. 5	9.5	10.0	13.0	8.5	5.5	21.5	32.0	21.0	+
16	30. 5	38.0	15. 5	40. 5		44. 5	30, 5	35.5	39. 5	12.5	4.0	4.0	10.0	9.5	4.0	1.0	3, 5	3.5	+
17	60.0	85. 5	70.0	59.0	51.0	62.0	59.5	64.0	55.0	60. 5	129.0	76. 6	55.0	70.0	127. 0	155.5	110.0	112.0	12
. 18	92. 5	138.0	83.0	100.5	61.0	109.5	62. 5	47.5	75.0	59.0	22.0	74.0	57.0	66.0		0.5	0.5	0.5	Η.
19	13, 5	7.5	3.0	0.5			2.0	8.0	0.5		0.5				7.5	7. 5	0.5	0.5	Τ
20	28.0	28, 0	58.0	6.5	5.0	6.5	5. 5	14.5	7, 5	1.0			3.0	1.5	58.0	47.5	2.0		
21	8. 5	8. 5	33. 5	5.5	4.0	9,0	1.5	9.5	5. 5	13. 5	10.5	1.0	2.0	3.0	29.5	13.5	δ. 5	3.5	
22	0.5	0.5	0.0	1.0		0.5		4.5		0.5	2, 0			1.5	12. 5	8.0	4.5	2.5	
23	6. 5 51. 0	7. 0 83. 0	8. 0 72. 0	6. 0 48. 0	5. 0 27. 0	5, 5 63, 5	30. 5	4. 5 50. 0	5. 5 53. 5	3. 0 39. 0	2. 0 30. 5	0.5 26.5	4.0	3.0	43.0	1.0	0.5	0.5	⊢
25	20.5	22. 5	17. 0	30.0	44.0	30.5	28. 5	35. O	56. 0	56.0	55. O	33. 4	35. 0 54. 0	52. 5 57. 0	57. 5		98. 0 8. 0		┼-
26	13.0	12.0	12. 5	1.5	34.0	1.5	1.0	5.0	0.5	8.5	6.5	13.5	5.0	8.0			1.5		1-
27	10.0	10.0				4. 0	1.0	10	0. 0	0. 0	0.5	_ <u>10. J</u>	J. 0	0. 0		-			1-
28			1.0					21.5					-	1.5		l	·	·	-
29														1.0					1
30																	i		<u> </u>
31																			T
습計	436.5	553.0	537. 5	425. 5	332.0	448.0	356.0	421.0	447.0	429. 5	420.5	304. 2	352.0	439.5	515.0	391.0	419.0	270.0	2

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	8 H																		
日時	東大門	城北	道峰	陽川	九老	<b>从登浦</b>	瑞草	江南	光明	安養	軍浦	儀旺	果川	城南	成佛寺	<b>到民大</b>	沙水大	安養中	徳荘校
1	<u> </u>		<u> </u>	L	l	ļ	<u> </u>				L		T		1		T .		
2	<u> </u>	ļ				ļ		<u> </u>	ļ			<u> </u>	l						
3	ļ					L	ļ. <u>.</u>	<u> </u>			-		:						
4	ļ				<u>                                     </u>			<u> </u>	<u> </u>		<u> </u>						L		
5			ļ	ļ		ļ			<b></b>										
<u>δ</u>				<u> </u>	ļ			ļ	ļ		<u> </u>		<u> </u>		<u> </u>	<u> </u>			:
7	2.0			ļ		10.5		10.5	ļ	20.0	<u> </u>	ļ			<u> </u>	ļ			
8	7.0	6.0	7.5	0.5		11.5	8.0	19.0		20.0	10.5	4.0	3.0		ļ <u> </u>	L	41.5		
9	6.5	0.5	2.5	9.5	5.0	14.0	6.5	6.0	14.0	5.0	5.0	· .	2.0	2.0	18.0		27. 0		
10		9.0	2, 5	21.0	13.0	10.5	1, 0	11.0	19, 5	9.5	23.0	3.4	13.0	20.5					
11				23. 0	<del> </del>	<u> </u>		1.0		ļ		15. 5			<b></b>		ļ		ļ
12 13					<b> </b> -					<b>!</b>	ļ	4. 6			<u> </u>		<u> </u>		
13	24.0	29.0	30.0		15.0	10.0	04.0	11.0	02.5	00.0	- 00.0				39.5		23.5		ļ
15	24.0	23.0	JU, U		10.0	19.0	24.0	11.0	27.5	32. 5	23.0	<u> </u>	22.0	13.0	3, 0		3.0		
16	4.5	4.5	10.0	6.5	5.0	5. 5	5.0	4.0		2.0			ļ		10.5				
17	15.0	15.5	29.0	11.0	7.0	11.5	16.0	17.0	5.0 14.5	2. 0 12. 5	0.5		<b>!</b>	4.0	19.5		22.5		I
18	13.0	13.3	23.0	11.0	7.0	11. 3	10.0	17.0	14. 3	12.3	11.0			11.0			ļ		<b> </b>
19	4.5	5. 5	5.0	4.0	2.0	4. 0	3. 5	2.0	2. 0	1.5	<b> </b>	-	3, 0	1.0	0.5		10.5		
20	41.0	33. 5	16.0	12.0	27.0	4, 0	60.0	62.5	31.5	44.0	38.0	17. 0	51.0	1.0 30.0	6. 5 20. 0		18.5 59.5		
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. 2	10.5	18.0	21, 0	6.5	2.0	3.0	12.5	10.0	4.5	5.0	6.0		10.0	8.0	17.0	10.0	4.0	2.0	
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10			143.0	131.0	124.0	118.0	158.0	165.0	59.5	206. 0 478. 0	315.0	382.0	252. 0	308.0	55. 5	119.0	114.5	102.0	317.0
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年雨量東大門 城北 道峰 陽川 九老 永登浦 瑞草 江南 光明 安養 軍浦 儀旺 果川 城南 成佛寺 国民大 ツル大 安養中 徳荘校 2030.5 2457.4 2401.3 1983.0 1761.0 1882.0 2120.5 2122.5 2188.5 2378.9 2239.7 2027.8 1893.4 2298.0 1734.0 1527.0 1650.5 1119.0 1193.0

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### Chapter 3 Discharge Analysis

#### 3.1 Location of Observation Stations

The self registering water gauges were installed to grasp a flow-regime for the purpose of a river purification facility design.

Table 3.1-1 Observation Stations Table

[ River ]	Location	Basin	Instru-	Start
Observation Station		(km²)	ment	
[Anyang Chong]	<u> </u>	· · · · · · · · · · · · · · · · · · ·		
Yanghwa Bridge	Yomchang-dong, Kangso-gu	284.14	W-021-Z	Nov. 19 '90
Omok Bridge	Yangpyong-dong 2,	264.55	W-021-Z	Nov. 19 '90
	Yongdungpo-gu			
Shinjong Bridge	Muullae-dong,	41.83	W-021-Z	Nov. 19 '90
	Yongdungpo-gu			
Okum Bridge	Shinjong-dong,	212.29	W-021-Z	Nov. 19 '90
	Yongdungpo-gu			
Anyang Bridge	Kuro-dong, Kuro-gu	153.60	W-021-Z	Nov. 19 '90
Kia Grand Bridge	Kuro-dong, Kuro-gu	126.38	W-021-Z	Nov. 19 '90
[Yangjae Chong]				
Taechi Bridge	Taechi-dong, Kangnam-gu	59.12	W-021-Z	Nov. 12 '90
Yongdong 2nd Bridge	Poi-dong, Socho-gu	51.47	₩-021-Z	Oct. 19 '91
Yoi Bridge	Yangjae-dong, Socho-gu	12.18	W-021-Z	Nov. 12 '91
Umyon Bridge	Yangjae-dong, Socho-gu	36.35	₩-021-Z	Nov. 12 '91
[Chungroung Chong]	·			
Chegi Bridge	Chegi-dong, Tongdaemun-gu	19.40	₩-021-Z	Oct. 17 '90
Chongnam Bridge	Hoegi-dong, Tongdaemun-gu	17.92	₩-021-Z	Oct. 17 '90
Cover Ending	Chongam-dong, Songbuk-gu	10.03	W-021-Z	Oct. 17 '90
[Vi Bridge]				
Changwolg Bridge	Chagui-dong, Songbuk-gu	26.18	W-021-Z	Sep. 27 27
Ui Bridge	Sangmun-dong, Tobong-gu	16.86	₩-021-Z	Sep. 27 27

#### 3.2 Hydrograph of Water Level and Discharge (H-Q Curve)

H-Q curves were drawn by discharge observation data. H-Q curve are generally calculated by method of least squares.

Primarily, a curve must be assumed. Assume that the relationship between a water level and a discharge is represented by two dimension formula.

$$Q = a^{2} (H + \frac{b}{a})^{2}$$

The data of the year 1991 were the result of the discharge observation from May 1991 till June 1991. The H-Q curves were drawn with only this survey data, then water level was converted to the discharge.

However it is noticeable that the data not to have been measured due to the adjacent constructions, flood and so on were supplemented by the estimation.

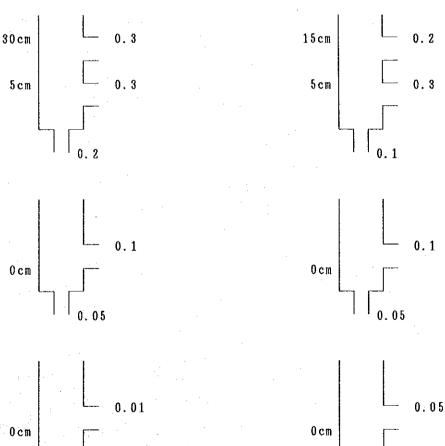
The figures of the tank models to be used for estimation.

Anyang Chong

Yangjae Chong

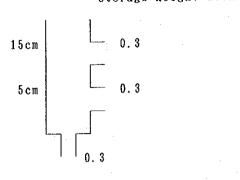
Storage height 40cm

Storage height 30cm

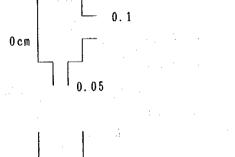


### Ui Chong

# Storage height 20cm



# Storage height 5cm

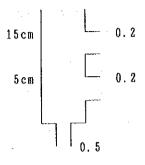


# 0.05

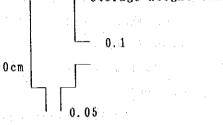
0 cm

### Chungroung Chong

### Storage height 10cm



## Storage height 5cm



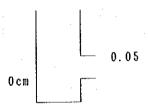


Table 3.2-1 H - Q Data of Anyang St.1

	据花椅		ST. 1	資料数N	. 56	
資料番号	11		Q	112		II√Q
1	2. 518	2, 550	0.11	6, 503	0. 332	0.847
2	2. 513	2. 545	0.11	6. 477	0. 332	0.845
3	2, 513	2, 545	0.12	6. 477	0.346	0.881
1	2. 533	2, 565	0.12	6. 579	0.346	0.887
5	2. 518	2. 550	0.13	6. 503	0.361	0. 921
6	2.513	2. 545	0.13	6, 477	0.361	0. 919
7	2. 538	2. 570	0.13	6. 805	0.361	0. 928
8	2. 533	2. 565	0.13	6. 579	0.361	0. 926
9 10	2. 533 2. 518	2, 565 2, 550	0. 14 0. 15	6.579	0.374 0.387	0. 959 0. 987
10				6, 503		~
11	2. 538	2. 570	0.15	6,605	0. 387	0. 995
12	2.563	2. 595	0.16	6. 734	0.400	1.038
13	2, 568	2, 600	0. 17	6.760	0.412	1.071
14	2.563	2. 595	0. 18	6. 734	0.424	1. 100
15	2, 538	2.570	0.18	6.605	0. 424	1.090
16	2.618	2, 650	0.19	7.023	0. 436	1. 155
17	2, 613	2. 645	0.19	6, 996	0.436	1. 153
18	2.643	2, 675	0. 20	7.156	0.447	1. 196
19	2.613	2, 645	0. 21	6.996	0.458	1. 211
20	2. 638	2.670	0. 21	7, 129	0, 458	1. 223
21	2, 643	2. 675	0. 23	7.156	0.480	1. 284
22	2,618	2.650	0. 23	7.023	0.480	1. 272
23	2, 648	2, 680	0. 24	7, 182	0.490	1.313
24	2.643	2, 675	0. 25	7.156	0.500	1. 338
25	2.648	2, 680	0. 25	7. 182	0.500	1.340
26	2. 653	2. 685	0. 26	7. 209	0.510	1. 369
27	2, 648	2.680	0. 28	7. 182	0. 529	1.418
28	2.703	2. 735	1. 90	7. 480	1. 378	3. 769
29	2. 763	2.795	2.00	7.812	1.414	3. 952
30	2.748	2. 780	2.00	7. 728	1.414	3. 931
31	2. 758	2. 790	2. 10	7. 784	1. 449	4. 043
32	2.748	2. 780	2. 10	7, 728	1. 483	4. 123
	2. 763		2. 30	7.812	1, 517	4, 240
34	2,768	2.800	2, 50	7.840	1. 581	4. 127
35	2.798	2.830	3. 22	8.009	1.794	5. 077
36	2.818	2.850	4. 20	8. 123	2.049	5.840
37	2.818	2.850	4, 30	8.123	2.074	5, 911
38	2.818	2.850	4. 50	8. 123	2. 121	6, 045
39	2.898	2. 930	4. 75	8, 585	2.179	6.384
40	3.098	3.130	6. 45	9. 797	2, 540	7.950
41	2.998	3.030	6.50	9. 181	2. 550	7. 727
42	3.098	3. 130	6.80	9. 797	2. 608	8, 163
43	3.098	3. 130	7.00	9.797	2,646	8. 282
44	3.500	3. 532	18.56	12, 475	4. 308	15. 216
45	3, 998	4.030	34.80	16. 241	5. 899	23. 773
46	3. 988	4.020	06.10	16. 160	5. 925	23, 819
47	3. 998	4. 030	35. 10 35. 10	16. 241	5. 925	23.878
	3. 998		36. 50	16. 241	6.042	24. 349
18 19	4. 498	4. 030 4. 530	55.80	20. 521	7. 470	33.839
	1					
50	4.968	5.000	75. 30	25. 000	8.678	43. 390
<u>5i</u>	4. 998	5, 030	80. 90	25. 301	8, 994	45. 240
52		3. 202	6. 39	10. 253	2. 528	8.095
53		3, 332	7.09	11.102	2. 663	8. 873
. 54		3. 192	6.69	10. 189	2.587	8. 258
55	<u> </u>	3.062	3.70	9. 376	1.924	5. 891
56		3. 150	6. 49	9. 923	2, 548	8.026
合計	149. 265	166.835	469, 990	516.852	107, 620	392. 177

 $A = [n (H / Q) - (H) * (/ Q)] / [n (H^2) - (H)^2] 3.6106939$ 

 $B = [ (H2) * (\sqrt{Q}) - (H) * (H/Q) ] / [n (H2) - (H)^2] -8.835180$ 

A^2= 13.037110

B/A= -2.446948

Q=A^2 (H+-B/A) ^2= 13.037110 x (H - 2.446948)2

Table 3.2-2 H - Q Data of Anyang St.2

地点名:	梧木橋		ST. 2	資料数N	47	)
資料番号	H	[ ·	Q	H 2	VΩ	н√о
1	3, 746	3. 846	2. 20	14. 792	1.483	5. 704
2	3, 746	3, 846	2.00	14. 792	1.414	5. 438
3	3, 751	3. 851	2, 10	14, 830	1.419	5, 580
1	3, 751	3. 851	2.08	14, 830	1.442	5, 553
5	3. 751	3. 851	2. 20	14. 830	1.483	5, 711
6	3, 781	3, 881	3. 30	15.062	1.817	7. 052
7	3, 781	3, 881	3, 10	15.062	1.761	6.834
8	3. 781	3, 881	3. 30	15.062	1.817	7.052
9	3. 781	3, 881	3, 50	15.062	1.871	7. 261
10	3. 836	3, 936	4.10	15. 492	2. 025	7. 970
	3, 836	3. 936	4. 20	15. 492	2.049	8.065
110		3, 936	4. 20	15. 492	2.025	7. 970
12	3.835					
13	3, 831	3. 931	4. 20	15.453 15.610	2. 049 2. 121	8.055 8.380
14	3.851	3, 951	4, 50			
15	3.851	3.951	4.80	15.610	2. 191 2. 168	8,657 8,566
16	3.851	3. 951	4.70	15,610		
17	3.861	3, 961	4.50	15.690	2, 121	8.401
18	3.861	3.961	4.80	15, 690	2. 191	8.679
19	3, 896	3. 996	5. 30	15.968	2. 302	9, 199
20	3.901	4.001	5. 20	16.008	2. 280	9, 122
21	3, 901	4.001	5. 40	16.008	2. 324	9. 298
22	3, 901	4.001	5. 30	16.008	2.302	9. 210
23	4,001	4. 101	5. 80	16.818	2.408	9.875
24	4.001	4.101	5.50	16.818	2.345	9.617
25	4.001	4. 101	5.70	16.818	2.387	9. 789
26	4.081	4. 181	14.80	17. 481	3.847	16.084
27	4.081	4, 181	16.50	17. 481	4.062	16. 983
28	4.081	4. 181	14.00	17.481	3.742	15.645
29	4.181	4. 281	18.50	18. 327	4.301	18.413
30	4. 181	4. 281	17.90	18. 327	4, 231	18.113
31	4. 181	4. 281	17. 50	18. 327	4.183	17.907
32	4. 236	4. 336	19.40	18.801	4, 405	19, 100
33	4. 236	4. 336	20.00	18, 801	4.472	19.391
34	4. 236	4. 336	19.80	18, 801	4, 450	19, 295
35	4. 296	4. 396	22. 20	19. 325	4.712	20.714
36	4. 296	4.396	23. 50	19. 325	4,848	21.312
37	4. 301	4. 401	21.50	19.363	4.637	20.407
38	5.001	5. 101	84.50	26.020	9, 192	46.888
39	5, 501	5, 601	148.20	31. 371	12.174	68. 187
40	6.001	6. 101	226. 20	37. 222	15.040	91.759
42	6.451	6. 551	309.10	42. 316	17. 581	115.173
43		3.841	1.96	14. 753	1.400	5.377
-44		3.851	3, 49	14.830	1.868	7. 194
45		3.851	3. 13	14.830	1.852	7. 132
46		3, 851	3. 26	14. 830	1.806	6. 955
47		3, 881	5. 38	15.062	2.319	9.000
合計	169.426	192.801	1113.000	822. 587	164, 947	778.067

 $A = [n (H/Q) - (H) * (/Q)] / [n (H^2) - (H)^2] 3.2008322$ 

B= [ (H2) \*  $(\sqrt{Q})$  - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -9.620786

A^2= 10. 245327

B/A = -3.005712

Q=A^2 (H+-B/A) ^2= 10.245377\*(H-3.005712)2

Table 3.2-3 H - Q Data of Anyang St.3

新亭橋		ST. 3	資料数N	26	
Н	. 4.1	Q	H 2	√Q	H√Q
4.869	4.833	0.91	23. 358	0.954	4.611
5. 199	5.163	3. 15	26.657	1.775	9. 164
5. 119	5.083	4.03	25.837	2.007	10. 202
5. 259	5. 223	5.67	27. 280	2. 381	12. 436
5. 199	5. 163	7. 94	26.657	2.818	14, 549
6. 212	6. 176	46. 20	38.143	6.797	41. 978
6. 199	6. 163	48. 40	37.983	6.957	42.876
6. 219	6. 183	52.70	38, 229	7. 259	44.882
6. 214	6. 178	60.40	38. 168	7.772	48.015
6. 278	6. 242	62. 30	38. 963	7.893	49. 268
6. 199	6. 163	63.70	37. 983	7. 981	49. 187
6. 283	6. 247	63.90	39.025	7. 994	49, 939
6.199	6, 163	70.50	37. 983	8, 396	51.745
6. 249	6. 213	74.90	38.601	8. 654	53.767
6. 310	6. 274	76, 50	39. 363	8.746	54.872
6.379	6. 343	79.90	40. 234	8, 939	56.700
6.419	6.383	80. 30	40.743	8, 961	57. 198
6.419	6.383	87.10	40.743	9, 333	59. 573
6. 379	6. 343	87. 30	40. 234	9. 343	59. 263
6. 379	6. 343	88.00	40. 234	9. 381	59. 504
6. 399	6.363	89.00	40.488	9. 434	60.029
6.401	6.365	93.60	40.513	9. 675	61.581
	4.648	0.06	21.604	0. 245	1. 139
	4.618	0.04	21. 326	0. 200	0.924
	4.658	0.10	21, 697	0.316	1, 472
	4.658	0.10	21.697	0.316	1.472
	0	0.00	0.000	0.000	0.000
132. 782	150. 572	1246. 70	883.743	154. 527	956, 346

A=  $[n (H\sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 5.2311872$ 

B= [ (H2) \*  $(\sqrt{Q})$  - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -24.35166

A^2= 27.365320

B/A = -4.655093

Q=A^2 (H+-B/A) ^2= 27.36532 × (H-4.655093)2

Table 3.2-4 H - Q Data of Anyang St.4

地点名:	オグム橋		ST. 4	資料数N	57	1 .
資料番号			Q	H 2	√Q	H√Q
	4. 295	4. 489	4. 34		2.083	9.351
2	4. 435	4. 629	5. 73		2. 394	11.082
3	4.755		7.14		2. 672	13. 224
4	4, 395	4. 589	8.03		2. 834	13.005
5	4. 275	4. 469	8.60		2. 933	13.108
6		4.649	10.77		3. 282	15. 258
7	4, 745	4. 939	17.60	24. 394	4. 195	20. 719
8	6. 525	6.719	58, 19		7. 628	51. 253
9	6.030	6. 224	62, 45		7. 903	49. 188
10	5. 837	6.031	62, 64		7. 914	47.729
11	6. 535	6.729	72. 98	45. 279	8. 543	57. 486
12	6. 355	6.549	75, 26	42.889	8, 675	56.813
13	6. 425	6.619	79.79	43. 811	8. 933	59. 128
14	6. 695	6.889	79.82	47. 458	8. 934	61.546
15	5. 933	6. 127	82.65	37. 540	9. 091	
16	5. 969	6. 163	83.04	37. 983		55.701
17	5. 885	6.079	83.41	36. 954	9, 112	56. 157
18	6, 250	6. 444	87.47	41. 525	9, 133 9, 352	55. 520
19	6. 285	6. 479	89.99	41. 977	J. 00L	60. 264 61. 460
20	6. 705	6. 899	99, 69	47. 596	7: 100	
21	6. 625	6.819	103.89		9, 984	68. 880
22	6. 395	6. 589	103. 69	46. 499 43. 415	10. 193 10. 218	69, 506 67, 326
23	6. 665	6.859	105. 37	47.046	10. 218	
24	6.615	6, 809	105, 92	46, 362		70.408 70.078
25	6. 585	6. 779	105, 34	45. 955	10. 292 10. 312	
26	7.055	7. 249	106, 43	52.548	10. 317	69. 905
27	6. 625	6. 819	108.40			74.788
28	7. 055	7. 249	111.68	46, 499 52, 548	10.411	10. 550
29	6.075	6. 269	114. 25	39. 300	10.568	76, 607
30	6. 375	6. 569	119.03		10. 689	67.009
31	6.615	6.809	120, 23	43.152 46.362	10.910	71.668
32	7.035	7, 229	121, 17	52. 258	10.965	74.661
33	6.415	6. 609	122. 39	43.679	11.008	79. 577
34	7. 075	7. 269	123.06	52.838	11.063	73, 115 80, 635
35	6. 395	6, 589	123. 10		11.093	
36	7.045	7. 239	129.11	13.415	11.095	73. 105
37	6. 655	6. 849		52, 403	11.362	82. 250
38	6, 695	6. 889	141.51	46, 909	11.896	81.476
39	6. 665		150.57	17. 458	12. 271	84. 535
41	6, 795	6, 859	150.58	47.046	12. 271	84. 167
42		6. 989	153, 61	48. 846	12. 394	86, 622
43	6, 725 6, 705	6. 919	154.11	47.873	12.414	85.892
		6. 899	157.36	47. 596	12, 544	86. 541
14	6, 835	7.029	157. 39.	49. 407	12.546	88. 186
45	7.035	7. 229	168. 29	52. 258	12.973	93. 782
46	6, 795	6. 989	170.39	48. 846	13.053	91, 227
47	0.825	7.019	172. 03	19. 266	13. 116	92.061
48	6.825	7.019	173.84	49, 266	13. 185	92. 546
49	6. 795	6. 989	178. 93	48.846	13.376	93, 485
50	6. 645	6, 839	179. 29	46, 772	13.390	91. 574
51	7. 055	7. 249	190.58	52. 548	13.805	100, 072
52	6, 615	6.809	191.77	46.362	13.848	94. 291
53	7.045	7. 239	229. 37	52, 403	15. 145	109.635
54		4.414	1.56	19. 483	1. 249	5.513
55		4. 544	5. 96	20.648	2.441	11.092
56		1. 484	3, 56	20.106	1.887	8.461
57		4. 484	2. 93	20, 106	1.712	7. 677
58	<u> </u>	0	0.00	0.000	0.000	0.000
合計	334. 849	363.057	5790.57	2360. 298	533.710	3582. 554

A= [n (H√Q) - (H) \* (√Q)/] / [n (H^2) - (H)/2] 3.8283663

B= [ (H2) \* ( $\sqrt{Q}$ ) - [H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -15.02114

A^2= 14.656388

B/A= -3. 923643

Q=A^2 (H+-B/A) ^2= 14.656388 x (H-3.923643)2

Table 3.2-5 II - Q Data of Anyang St.5

<u> 地点名:</u>	安養橋		ST. 5	資料数N	15	_
資料番号	H		Q	H 2	√Q	H√Q
11	5. 285	5. 299	3, 98	28.079	1. 995	10. 572
2	5.365	5. 379	8.46	28. 934	2. 909	15.648
3	5. 365	5. 379	9.09	28, 934	3.015	16. 218
4	7. 255	7. 269	118.30	52. 838	10.877	79.065
5	7. 235	7. 249	135.80	52. 548	11.653	84. 473
6	7. 695	7.709	173.00	59.429	13. 153	101.396
7	7.745	7.759	186, 90	60. 202	13.671	106, 073
8	7.755	7.769	195, 70	60. 357	13.989	108. 681
9	7.805	7.819	206. 30	61.137	14. 363	112, 304
10	7.795	7.809	208.70	60. 980	14.446	112.809
11	7. 785	7.799	222. 50	60.824	14.916	116. 330
12	1	5. 234	2. 37	27. 395	1.539	8.055
13		5. 304	4.60	28. 132	2. 145	11. 377
14		5. 254	2. 83	27. 605	1.682	8.837
15		5, 264	3.07	27. 710	1.752	9. 223
16		0		0.000	0.000	0.000
合計	77.085	98. 295	1481.60	665. 104	122.105	901.061

A=  $[n (H/Q) - (H) * (/Q)] / [n (H^2) - (H)^2] 4.8103915$ 

B= [ (H2) \* 
$$(\sqrt{Q})$$
 - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -23.38216

A^2= 23.139867

B/A= -4.860760

Q=A^2 (H+-B/A) ^2= 23.139867 × (H - 4.86076)2

A\* (n (H/Q) - (H) \* (/Q) ] / (n (H2) - (H) 2] 9.2718195

B= ( (H2) + (√Q) - (H) + (H√Q) ] / [n (H2) - (H1 ^2) -91.39494

A 7: 85. 962928

B/A= -9.357494

Q-A-2 (H-B/A) 2. BS. 962928×(H-9.857494)

Table 3.2-7 H - Q Data of Yangjae St.1

<b>业点名;</b>	大陆橋		ST. 1	資料数N	79	
資料監号	11		9	11 2		H√Q
2	4. 945 4. 955	\$, 199 5, 809	0, 62	33. 628 33. 744	0, 787	4. 564 3. 851
3	4.965	5, 819	0.60	33. 861	0. 175	4, 510
	4.975	5, 829	1.39	33, 977	1. 179	6.872
. 5	5.085	5, 939	2. 28	35. 272	1, 510	8.968
6	5. 585	5. 439	14, 43	41, 461	8. 627	55, 549
7	5, 608	6. 462	79. 37	41,757	8. 909	57, 570
8	5.615	6, 469	12.05	11.848	8. 488	54, 909
9	5, 641	6, 495	86.88	42, 185	9. 321	60, 540
10	5, 652	6, 506	69.95	42, 328	8, 363	54, 410
11	5. \$65	6.519	83, 65	42. 497	9. 146	59, 623
12	5, 673	6. 527	82, 25	12, 602	9, 070	59, 200
13	5, 680	5. 534	82. 34	42, 693	9,074	59, 290
!	5, 690	5. 511	98.69	12.824	9, 934	65.008
15	5, 698	6, 552	80, 53	12, 929	8. 974 8. 977	58, 798 58, 835
16 17	5. 700 5. 713	6. 554 6. 567	80.58 73.20	42, 955 43, 125	8, 556	56.187
18	5. 724	6. 578	92. 21	43. 270	9, 603	63.169
19	5. 735	6, 589	88.41	43.415	9. 102	61, 950
20	5. 743	6, 597	78.41	43, 520	8. 855	58, 416
21	5,743	6.597	87.32	43. 520	9. 344	61.612
22	5.743	6, 597	75. 56	43. 520	8. 692	57, 341
23	5,743	6. 597	78.44	43, 520	8, 856	58, 423
24	5,747	6.601	88, 50	43, 573	9. 407	62, 096
25	5, 747	6.601	97. 60	43. 573	9, 879	65, 211
26	5. 747	6, 601	59. 96	43, 573	7, 744	51.118
27	5.747	6.601	93.13	43, 573	9. 650	63, 700
28	5.750	6,604	63.78	13.613	7. 986	52,740
29	5.750 5.750	6, 604 6, 604	95. 29 87. 62	43,613	9, 762 9, 361	64.468 61.820
30 31	5. 750	6.604	70.25	43,613	8, 381	55. 348
32	5. 750	5. 604	83.41	13.613	7, 963	52, 588
33	5.755	6, 609	86. 92	43.679	9. 323	61.616
34	5.766	6.62	103.60	43,824	10.178	87. 378
35	5.114	6, 628	81.52	43, 930	9, 029	159.844
36	5, 785	5. 639	76. 99	44.076	8. 774	58, 25 i
37	5. 789	6.643	76.99	44.129	8, 774	58, 286
38	5,794	6, 548	86,02	44.196	9. 275	61.660
39	5, 799	6. 653	72,77	14, 262	8. 531	56. 757
40	5.815	8. 869	78,44	44, 476	8, 856	59,061
- (1	5.823	6,677	85. 22	14.582	9. 232	61.642
42	5.853	6.707	95.82	44.984	9.789	65.655
43	5.864	6,718 6,725	103.32 95.93	45. 132	10. 165 9. 794	68, 288 65, 865
44	5, 871 5, 885	6. 739	93.12	45. 226 45. 414	9. 650	55.031
48	5, 885	6. 739	78.44	15. (14	8.857	59.687
47	5.885	6, 739	80.64	45.414	8,980	60.515
48	5.885	8. 739	93, 24	45.414	9.655	65.077
49	5, 885	6. 739	66.13	45.414	8. 132	54.80
50	5, 893	6, 747	98.44	45, 522	9, 921	66.93
51	5, 905	6. 759	87.74	45, 584	s. 367	63, 31
52	5, 905	6.759	78.59	45, 684	8, 855	59. 91
53	5.905	6. 759	97.69	45. 684	9.884	65, 80
54	5.905	6, 759	104.21	45.684	10.209	69.00
\$5	5.905	6.759	86.43	45, 684	9. 297	62, 83
56	5.905	6. 759			9. 881	66.78
57	5.911	6, 765	104, 25	45.765	10. 210	69.07
58 50	S. 916	6.17	116.33	45, 833	10, 785	73.01
59 60	5, 919 5, 931	6, 773 6, 785	94. 70 99, 40	45.874 46.036	9. 731 9. 970	67.64
61	5.935	5. 789	110.04	46.091	10.490	67. 64 71. 21
62	5. 945	6. 799	102.01	46. 226	10.100	68.67
63	5.946	6.8	117. 31	46, 240	10.831	73, 65
64	5. 954	6.808	12.70	46, 349	8.527	58.05
65	5, 954	6, 808	95. 27	46. 349	9. 761	66.45
66	\$.954	6.808	100,00	16, 349	10,000	68.08
67	5.954	6, 808	85.82	16.319	9. 264	53.08
68	5, 954	6.808	128. 58	46.349	11, 339	77.19
69	5,955	6,809	128.58	46, 362	11, 339	77. 20
70	5, 955	6.809	117.55	46, 362	10.842	73.82
71	5.955 5.955	6.809 6.809	100.33 105.45	46. 362	10,016	68.19 69.92
73	5.955	6. 809	117.55	45, 352 46, 362	10. 269 10. 842	73,82
74	3,300	6.029	3. 28	36.349	1.811	10. 91
75	11 T 1	5. 859	2. 23	34. 328	1, 493	8, 74
76		5, 809	1.01	33,744	1,00\$	5. 83
17	1 1 1 1 1	5, 869	1.07	34. 445	1.034	6.06
78		5, 939	1.78	35. 212	1.334	7. 92
		5. 839	0.92	34.094	0.959	5, 60
79	420. 498	518. 184	6101.075	3405, 852	653, 609	4353.82

 $A = \{n (H / Q) - (H) * (/ Q) \} / \{n (H^2) - (H)^2\} 9,6088552$ 

B= [ (H2) + [\sqrt{q}] - (H) + [H\sqrt{q}] ] / [n (H2) - (H) 2] -54.75374

A^2= 92. 330098

B/A= -5.698259

Q=A-2 (11+-B/A) 2= 92.330098 x(H-5.698259)2

Table 3.2-8 H - Q Data of Yangjae St.2

地点名:	永東2橋	,	ST, 2	資料数N	42	]
資料番号	H		Q	H 2	√Q	н√о
1	10.462		0, 69	109.453	0.831	8, 694
г	11.502		8. 28	132. 296	2.877	33. 091
3 .	11. 278		10, 91	127, 193	3. 302	37, 240
4	11.361		12.02	129.072	3.467	39. 389
5	11. 322		12. 27	128. 188	3. 503	39.661
6	11.342		12. 47	128.641	3. 531	40.049
1	11.162		14.87	124. 590	3.856	43.041
8	11.267		15.00	126. 945	3. 873	43.637
9	11. 152		15. 91	124. 367	3. 989	44. 485
10	11.261		15. 97	126.810	3, 996	44, 999
11	11, 456		17. 39	131. 240	4.170	47.772
12	11.352		17.84	128.868	4. 223	47. 939
13	11.342		20.17	128.641	4.491	50. 937
14	11.342	4.1.1	20, 45	128. 641	4. 522	51. 289
15	11. 356		20.83		4. 564	51.829
16	11. 363		21.47	129. 118	4. 633	52. 645
17	11. 472		21.87	131.607	4. 676	53. 643
18	11, 356		23. 47	128. 959	4.844	55.008
19	11. 492		24. 27	132.066	4. 927	56. 621
20	11.642		25. 07	135, 536	5.007	58. 291
21	11. 442		25, 61	130. 919	5.060	57. 897
22	11.672		26. 40	136, 236	5. 138	59. 971
23	11. 472	1.1	26. 52	131, 607	5. 150	59. 081
24	11. 606		26. 80	134.699	5. 177	60.084
25	11.415		30.05	130.302	5. 482	62. 577
26	11. 490		30.64	132.020	5. 535	63. 597
27	11, 502		32.06	132. 296	5. 662	65. 124
28	11.652		33. 35	135. 769	5. 776	67. 302
29	11. 472		33. 43		5. 782	66. 331
30	11. 482		34. 53	131.836	5. 876	67. 468
31	11. 632		35. 72	135. 303	5, 976	69. 513
32	11. 472		36. 91	131.607	6. 076	69. 704
33	11.512	1 1 1	36. 97	132. 526	6. 080	69. 993
34	11. 423		37.07	130. 485	6. 089	69. 555
35	11. 522		37.63	132, 756	6. 134	70.676
36	11. 502		37.81	132, 736	6. 149	70.726
37	11.624	1.11	40, 30		6. 348	73, 789
38	11. 924		42. 21	142.086	6. 497	77. 444
39	11. 572		43, 67	133. 911		76. 468
40	12.002		45. 12	144.048	6. 608 6. 717,	80.617
41	11.612		45. 94	134.839	6. 778	78. 706
42	11.672		46.50	136. 236	6.819	79. 591
43	11.072	1 1 1	40. 10	0.000	0.000	0.000
44		:	7 77	0.000	0.000	0.000
45				0.000	0.000	0.000
46						0,000
				0.000 0.000	0.000 0.000	
47 合計	480. 952	0.000	1116 400			
	400. 302	0. 000	1116, 452	5509, 691	210. 191	2416.474

A=  $[n (H\sqrt{Q}) - (H) + (\sqrt{Q})] / [n (H^2) - (H)^2] 4.3399658$ 

B= [ (H2) \*  $(\sqrt{Q})$  - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -44.69343

A^2= 18.835303

B/A= -10. 29810

Q=A^2 (H+-B/A) ^2= 18.835303 x (H-10.2981)2

Table 3.2-9 H - Q Data of Yangjae St.3

地点名:	如意橋		ST, 3	資料数N	58	1
資料番号	H		Q	H 2	√Q	H√Q
1	15.447	15, 447	0.110	238, 610	0.332	5. 128
2	15. 107	15. 107	0.120	228. 221	0.346	5. 227
3	15. 477	15.477	1. 380	239, 538	1. 175	18. 185
4	15, 497	15, 497	1.520	240, 157	1. 233	19. 108
5	15. 397	15. 397	5. 299	237.068	2, 302	35, 444
6	15. 397	15.397	5, 963	237. 068	2. 442	37. 599
7	15. 447	15. 447	6. 458	238. 610	2. 541	39. 251
8	15. 637	15. 637	6. 493	244. 516	2. 548	
9	15. 447	15. 447	6. 497	238, 610	2. 549	39. 374
10	15. 637	15. 637	6.717	244. 516	2. 592	40, 531
11	15.667	15.667	7, 397	245. 455	2. 720	
12	15. 457	15. 457	7, 404	238. 919		42.614
13	15.667	15. 667			2.721	42,058
14	15.717		7. 563	245. 455	2.750	43.084
}		15, 717	8. 296	247. 024	2. 880	45. 265
15	15.717	15.717	8.492	247.024	2. 914	45. 799
16	15, 577	15, 577	8.549	242.643	2. 924	45. 547
17	15. 477	15.477	8, 631	239, 538	2.938	45. 471
18	15. 497	15.497	8.637	240. 157	2. 939	45. 546
19	15. 497	15.497	8.943	240. 157	2, 990	46.336
20	15. 497	15.497	9.056	240. 157	3.009	46.630
21	15, 797	15.797	9, 595	249, 545	3.098	48, 939
22	15, 517	15. 517	9.990	240.777	3, 161	49.049
23	15. 537	15. 537	10.005	241. 398	3. 163	49.144
24	15.817	15, 817	10.060	250. 177	3. 172	50. 172
25	15.797	15.797	10, 142	249.545	3. 185	50, 313
26	15. 527	15. 527	10.195	241.088	3, 193	49.578
27	15. 547	15. 547	10. 226	241. 709	3. 198	49.719
28	15.817	15.817	10. 336	250. 177	3. 215	50.852
29	15. 837	15.837	10.550	250, 811	3. 248	51.439
30	15. 537	15. 537	10, 622	241, 398	3. 259	50.635
31	15. 537	15, 537	10.667	241.398	3. 266	50.744
32	15. 617	<u>15. 617</u>	10.973	243.891	3.313	51. 739
33	15, 537	15. 537	11.029	241.398	3. 321	51. 598
34	15. 567	15, 567	11. 223	242, 331	3. 350	52. 149
35	15. 837	15.837	11.361	250, 811	3. 371	53. 387
36	15.847	15.847	11.369	251.127	3. 372	53, 436
37	15. 597	15, 597	11.459	243, 266	3. 385	52. 796
38	15. 557	15. 557	11.465	242.020	3, 386	52. 676
39	15. 617	15.617	11.967	243, 891	3.459	54. 019
40	15. 567	15. 567	12, 295	242. 331	3. 506	54. 578
41	15.847	15.847	12, 425	251. 127	3. 525	55. 861
42	15. 617	15. 617	12. 738	243.891	3: 569	55. 737
43	15. 597	15, 597	13. 238	243. 266	3.638	56.742
44	15. 577	15. 577	13. 332	242.643	3.651	56.872
45	15. 617	15.617	13.816	243, 891	3.717	58.048
46	15. 577	15. 577	13.845	242.643	3. 721	57. 962
47	15.637	15.637	14, 456	244. 516	3. 802	59. 452
48	15.667	15, 667	15, 563	245, 455	3. 945	61.806
49	15.647	15. 647	16.003	244.829	4.000	62. 588
50	15.717	15.717	17.341	247. 024	4. 164	65. 446
51	15.797	15. 797	19.964	249, 545	4. 468	70. 581
52	15. 817	15.817	21.044	250. 177	4. 587	72. 553
53	15. 837	15, 837	21. 825	250. 811	4. 672	73. 990
54	15. 847	15. 847	23. 361	251. 127	4. 833	76. 589
55		15. 379	0. 320	236. 514	0. 566	8. 705
.56		15. 339	0.090	235. 285	0.300	4. 602
57		15. 319	0.060	234. 672	0. 245	3. 753
58		15, 309	0.050	234. 365	0. 224	3. 429
59		0	0.000	0.000	0.000	0.000
合計	843.068	904. 414		14104.313	170.093	2659.718
					T10.030	.,000.110

A=  $[n (H\sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H2) - (H)^2] = 5.0210654$ 

B= [ (H2) +  $(\sqrt{Q})$  - (H) + (H $(\sqrt{Q})$  ] / [n (H2) - (H) ^2] -75.36256

A^2= 25.211098

B/A= -15.00927

Q=A^2 (H+-B/A) ^2= 25.211098 × (H-15.00927)2

Table 3.2-10 II - Q Data of Yangjae St.4

地点名:	牛眠橋		ST. 4	資料数N	26	
資料番号	Н		Q	H 2	√ Q	H√Q
1	15. 217	0.000	0.00	0.000	0.000	0.000
2	15. 317	0.000	0.00	0.000	0.000	0.000
3	14.797	15. 780	8.50	249.008	2. 915	45, 999
4	14. 537	15. 520	8.94	240.870	2.990	46, 405
5	14.837	15.820	10.10	250. 272	3. 178	50. 276
6	14. 847	15.830	10.40	250. 589	3. 225	51.052
7	15. 147	0.000	0.00	0.000	0,000	0.000
8	15.017	16.000	14.50	256.000	3.808	60.928
9	15.017	16.000	15.80	256.000	3. 975	63.600
10	14. 987	15. 970	16.10	255.041	4.012	64.072
11	15.057	16.040	16.60	257. 282	4.074	65. 347
12	14. 997	15. 980	16.70	255.360	4.087	65. 310
13	15.057	16.040	17.00	257. 282	4. 123	66. 133
14	15. 107	16.090	17. 10	258.888	4. 135	66. 532
15	15. 107	16.090	17. 50	258.888	4. 183	67. 304
16	15.087	16.070	17. 50	258. 245	4. 183	67. 221
17	15.037	16.020	17.70	256. 640	4. 207	67. 396
18	15.017	16.000	17. 90	256.000	4. 231	67.696
19	15, 087	16.070	18. 10	258. 245	4. 254	68. 362
20	15. 107	16.090	19.10	258. 888	4.370	70. 313
21	15.077	16.060	19.50	257. 924	4. 416	70. 921
22	15. 197	16. 180	20.90	261.792	4, 572	73. 975
23	15. 137	16.120	24. 10	259.854	4. 909	79. 133
24	15. 867	0.000	0.00	0.000	0.000	0.000
25	15. 887	0.000	0.00	0.000	0.000	0.000
26	15. 907	0.000	0.00	0.000	0.000	0.000
27	15. 357	16.340	31.30	266. 996	5. 595	91.422
28	16.017	0.000	0.00	0.000	0.000	0.000
29	15. 437	16.420	41.00	269.616	6.403	105.137
30	15. 537	16.520	41.20	272. 910	6.419	106.042
31	15. 537	16.520	42.50	272. 910	6.519	107.694
32	15. 417	16.400	43.90	268.960	6, 626	108.666
33	15. 537	16.520	48.50	272. 910	6.964	115.045
34		0.000	0.00	0.000	0.000	0.000
35		0.000	0.00	0.000	0.000	0.000
36		0.000	0.00	0.000	0.000	0.000
37		0.000	0.00	0.000	0.000	0.000
38		0.000	0.00	0.000	0.000	0.000
合計	502. 291	418.490	572.44	6737.370	118. 373	1911. 981

A=  $[n (H\sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 4.5996208$ 

B= [ (H2) \* ( $\sqrt{Q}$ ) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -69.48162

A^2= 21.156511

B/A = -15.10594

Q=A^2 (H+-B/A) ^2= 81.156511×(H-15.10594)2

Table 3.2-11 H - Q Data of Ui St.1

1         16.411         16.355         0.03         267.485           2         16.741         16.685         17.20         278.389           3         16.761         16.705         18.30         279.057           4         16.761         16.705         18.33         279.057           5         16.761         16.705         19.43         279.057           6         16.781         16.725         21.30         279.726           7         16.821         16.765         22.00         281.065           8         16.761         16.705         22.30         279.726           7         16.821         16.765         22.00         281.065           8         16.761         16.705         22.30         279.726           10         16.781         16.725         22.32         279.726           10         16.781         16.725         22.32         279.726           11         16.781         16.725         23.17         279.726           12         16.781         16.725         23.90         279.726           13         16.821         16.765         24.20         281.065           14	58 Q 0. 173 4. 147 4. 278	H√Q 2.829
1         16.411         16.355         0.03         267,485           2         16.741         16.685         17,20         278,389           3         16.761         16.705         18.30         279.057           4         16.761         16.705         18.33         279.057           4         16.761         16.705         18.33         279.057           5         16.761         16.705         19.43         279.057           6         16.781         16.725         21.30         279.726           7         16.821         16.765         22.00         281.065           8         16.761         16.705         22.30         279.057           9         16.781         16.725         22.30         279.726           10         16.781         16.725         22.32         279.726           11         16.781         16.725         22.63         279.726           12         16.781         16.725         23.17         279.726           13         16.821         16.765         24.20         281.065           14         16.781         16.725         24.54         279.726           15	0. 173 4. 147	
3         16, 761         16, 705         18, 30         279, 057           4         16, 761         16, 705         18, 33         279, 057           5         16, 761         16, 705         19, 43         279, 057           6         16, 781         16, 725         21, 30         279, 726           7         16, 821         16, 765         22, 00         281, 065           8         16, 761         16, 705         22, 30         279, 057           9         16, 781         16, 725         22, 30         279, 726           10         16, 781         16, 725         22, 63         279, 726           11         16, 781         16, 725         22, 63         279, 726           11         16, 781         16, 725         23, 17         279, 726           12         16, 781         16, 725         23, 90         279, 726           13         16, 821         16, 765         24, 20         281, 065           14         16, 781         16, 725         24, 54         279, 726           15         16, 821         16, 765         24, 60         281, 065           14         16, 781         16, 725         24, 54		60 100
3         16, 761         16, 705         18, 30         279, 057           4         16, 761         16, 705         18, 33         279, 057           5         16, 761         16, 705         19, 43         279, 057           6         16, 781         16, 725         21, 30         279, 726           7         16, 821         16, 765         22, 00         281, 065           8         16, 761         16, 705         22, 30         279, 057           9         16, 781         16, 725         22, 30         279, 726           10         16, 781         16, 725         22, 63         279, 726           11         16, 781         16, 725         22, 63         279, 726           11         16, 781         16, 725         23, 17         279, 726           12         16, 781         16, 725         23, 90         279, 726           13         16, 821         16, 765         24, 20         281, 065           14         16, 781         16, 725         24, 54         279, 726           15         16, 821         16, 765         24, 60         281, 065           14         16, 781         16, 725         24, 54		69, 193
4         16, 761         16, 705         18, 33         279, 057           5         16, 761         16, 705         19, 43         279, 057           6         16, 781         16, 725         21, 30         279, 726           7         16, 821         16, 765         22, 00         281, 065           8         16, 761         16, 705         22, 30         279, 057           9         16, 781         16, 725         22, 32         279, 726           10         16, 781         16, 725         22, 63         279, 726           11         16, 781         16, 725         23, 17         279, 726           12         16, 781         16, 725         23, 90         279, 726           13         16, 821         16, 765         24, 20         281, 065           14         16, 781         16, 725         24, 50         281, 065           14         16, 781         16, 725         24, 20         281, 065           14         16, 781         16, 725         24, 50         281, 065           15         16, 821         16, 765         24, 60         281, 065           16         16, 781         16, 725         24, 90		71.464
5         16, 761         16, 705         19, 43         279, 057           6         16, 781         16, 725         21, 30         279, 726           7         16, 821         16, 765         22, 00         281, 065           8         16, 761         16, 705         22, 30         279, 057           9         16, 781         16, 725         22, 32         279, 726           10         16, 781         16, 725         22, 63         279, 726           11         16, 781         16, 725         23, 17         279, 726           12         16, 781         16, 725         23, 90         279, 726           13         16, 821         16, 765         24, 20         281, 065           14         16, 781         16, 725         24, 54         279, 726           15         16, 821         16, 765         24, 20         281, 065           16         16, 781         16, 725         24, 54         279, 726           15         16, 821         16, 765         24, 60         281, 065           16         16, 781         16, 725         24, 90         279, 726           17         16, 781         16, 725         26, 30	4. 281	71. 514
6         16. 781         16. 725         21. 30         279. 726           7         16. 821         16. 765         22. 00         281. 065           8         16. 761         16. 705         22. 30         279. 057           9         16. 781         16. 725         22. 32         279. 726           10         16. 781         16. 725         22. 63         279. 726           11         16. 781         16. 725         23. 17         279. 726           12         16. 781         16. 725         23. 90         279. 726           13         16. 821         16. 765         24. 20         281. 065           14         16. 781         16. 725         24. 54         279. 726           15         16. 821         16. 765         24. 20         281. 065           16         16. 781         16. 725         24. 54         279. 726           17         16. 781         16. 725         24. 90         281. 065           16         16. 781         16. 725         24. 90         279. 726           17         16. 781         16. 725         24. 90         279. 726           18         16. 821         16. 765         26. 90	4. 408	73.636
7         16.821         16.765         22.00         281.065           8         16.761         16.705         22.30         279.057           9         16.781         16.725         22.32         279.726           10         16.781         16.725         22.63         279.726           11         16.781         16.725         23.17         279.726           12         16.781         16.725         23.90         279.726           13         16.821         16.765         24.20         281.065           14         16.781         16.725         24.54         279.726           15         16.821         16.765         24.60         281.065           16         16.781         16.725         24.54         279.726           17         16.781         16.725         24.60         281.065           18         16.821         16.765         24.60         281.065           19         16.821         16.765         26.30         279.726           18         16.821         16.765         26.90         281.065           19         16.821         16.765         27.00         281.065           2	4. 615	77, 186
8         16. 761         16. 705         22. 30         279.057           9         16. 781         16. 725         22. 32         279.726           10         16. 781         16. 725         22. 63         279.726           11         16. 781         16. 725         23. 17         279.726           12         16. 781         16. 725         23. 90         279.726           13         16. 821         16. 765         24. 20         281.065           14         16. 781         16. 725         24. 54         279.726           15         16. 821         16. 765         24. 60         281.065           16         16. 781         16. 725         24. 54         279.726           17         16. 781         16. 725         24. 60         281.065           17         16. 781         16. 725         24. 90         279.726           17         16. 781         16. 765         24. 90         279.726           18         16. 821         16. 765         26. 90         281.065           19         16. 821         16. 765         27. 00         281.065           20         16. 821         16. 765         27. 20 <td< td=""><td>4. 690</td><td>78. 628</td></td<>	4. 690	78. 628
9         16. 781         16. 725         22. 32         279. 726           10         16. 781         16. 725         22. 63         279. 726           11         16. 781         16. 725         23. 17         279. 726           12         16. 781         16. 725         23. 90         279. 726           13         16. 821         16. 765         24. 20         281. 065           14         16. 781         16. 725         24. 54         279. 726           15         16. 821         16. 765         24. 60         281. 065           16         16. 781         16. 725         24. 50         281. 065           17         16. 781         16. 725         24. 60         281. 065           18         16. 821         16. 765         24. 60         281. 065           17         16. 781         16. 725         26. 30         279. 726           18         16. 821         16. 765         26. 90         281. 065           19         16. 821         16. 765         27. 00         281. 065           20         16. 821         16. 765         27. 20         281. 065           21         16. 781         16. 725         27. 60 </td <td>4. 722</td> <td>78. 881</td>	4. 722	78. 881
10         16, 781         16, 725         22, 63         279, 726           11         16, 781         16, 725         23, 17         279, 726           12         16, 781         16, 725         23, 90         279, 726           13         16, 821         16, 765         24, 20         281, 065           14         16, 781         16, 725         24, 54         279, 726           15         16, 821         16, 765         24, 60         281, 065           16         16, 781         16, 725         24, 90         279, 726           17         16, 781         16, 725         24, 90         279, 726           18         16, 781         16, 725         24, 90         279, 726           18         16, 821         16, 765         26, 90         281, 065           19         16, 821         16, 765         27, 00         281, 065           20         16, 821         16, 765         27, 20         281, 065           21         16, 781         16, 725         27, 50         279, 726           22         16, 81         16, 725         29, 60         279, 726           23         16, 831         16, 775         30, 20 </td <td>4. 724</td> <td>79.009</td>	4. 724	79.009
11         16. 781         16. 725         23. 17         279. 726           12         16. 781         16. 725         23. 90         279. 726           13         16. 821         16. 765         24. 20         281. 065           14         16. 781         16. 725         24. 54         279. 726           15         16. 821         16. 765         24. 60         281. 065           16         16. 781         16. 725         24. 90         279. 726           17         16. 781         16. 725         26. 30         279. 726           18         16. 821         16. 765         26. 90         281. 065           19         16. 821         16. 765         27. 00         281. 065           20         16. 821         16. 765         27. 00         281. 065           21         16. 781         16. 725         27. 50         279. 726           22         16. 821         16. 765         27. 20         281. 065           21         16. 781         16. 725         29. 60         279. 726           22         16. 781         16. 725         29. 60         279. 726           23         16. 831         16. 775         30. 20<	4. 757	79. 561
12         16. 781         16. 725         23. 90         279. 726           13         16. 821         16. 765         24. 20         281. 065           14         16. 781         16. 725         24. 54         279. 726           15         16. 821         16. 765         24. 60         281. 065           16         16. 781         16. 725         24. 90         279. 726           17         16. 781         16. 725         26. 30         279. 726           18         16. 821         16. 765         26. 90         281. 065           19         16. 821         16. 765         27. 00         281. 065           20         16. 821         16. 765         27. 00         281. 065           21         16. 781         16. 725         27. 60         279. 726           22         16. 821         16. 725         27. 60         279. 726           22         16. 781         16. 725         29. 60         279. 726           23         16. 831         16. 775         30. 20         281. 401           24         16. 831         16. 775         31. 10         281. 401           25         16. 911         16. 855         31. 90<		
13         16.821         16.765         24.20         281.065           14         16.781         16.725         24.54         279.726           15         16.821         16.765         24.60         281.065           16         16.781         16.725         24.90         279.726           17         16.781         16.725         26.30         279.726           18         16.821         16.765         26.90         281.065           19         16.821         16.765         27.00         281.065           20         16.821         16.765         27.20         281.065           21         16.781         16.725         27.60         279.726           22         16.781         16.725         29.60         279.726           23         16.831         16.775         30.20         281.401           24         16.831         16.775         31.10         281.401           25         16.911         16.855         31.90         284.091           26         16.861         16.805         32.20         282.408           27         16.831         16.775         34.70         281.401 <t< td=""><td>4.814</td><td>80.514</td></t<>	4.814	80.514
14         16, 781         16, 725         24, 54         279, 726           15         16, 821         16, 765         24, 60         281, 065           16         16, 781         16, 725         24, 90         279, 726           17         16, 781         16, 725         26, 30         279, 726           18         16, 821         16, 765         26, 90         281, 065           19         16, 821         16, 765         27, 00         281, 065           20         16, 821         16, 765         27, 20         281, 065           21         16, 781         16, 725         27, 50         279, 726           22         16, 781         16, 725         29, 60         279, 726           22         16, 781         16, 725         29, 60         279, 726           23         16, 831         16, 775         30, 20         281, 401           24         16, 831         16, 775         31, 10         284, 401           25         16, 911         16, 855         31, 90         284, 091           26         16, 861         16, 805         32, 20         282, 408           27         16, 831         16, 775         34, 70<	4.889	
15         16,821         16,765         24,60         281,065           16         16,781         16,725         24,90         279,726           17         16,781         16,725         26,30         279,726           18         16,821         16,765         26,90         281,065           19         16,821         16,765         27,00         281,065           20         16,821         16,765         27,20         281,065           21         16,781         16,725         27,50         279,726           22         16,781         16,725         29,60         279,726           23         16,831         16,775         30,20         281,401           24         16,831         16,775         31,10         281,401           25         16,911         16,855         31,90         284,091           26         16,861         16,805         32,20         282,408           27         16,831         16,775         34,70         281,401           28         16,921         16,865         35,33         284,428           29         16,831         16,775         36,10         281,401	4.919	82.467
16         16.781         16.725         24.90         279.726           17         16.781         16.725         26.30         279.726           18         16.821         16.765         26.90         281.065           19         16.821         16.765         27.00         281.065           20         16.821         16.765         27.20         281.065           21         16.781         16.725         27.60         279.726           22         16.781         16.725         29.60         279.726           23         16.831         16.775         30.20         281.401           24         16.831         16.775         31.10         281.401           25         16.911         16.855         31.90         284.091           26         16.861         16.805         32.20         282.408           27         16.831         16.775         34.70         281.401           28         16.921         16.865         35.33         284.428           29         16.831         16.775         36.10         281.401	4. 954	82,856
17         16. 781         16. 725         26. 30         279. 726           18         16. 821         16. 765         26. 90         281. 065           19         16. 821         16. 765         27. 00         281. 065           20         16. 821         16. 765         27. 20         281. 065           21         16. 781         16. 725         27. 50         279. 726           22         16. 781         16. 725         29. 60         279. 726           23         16. 831         16. 775         30. 20         281. 401           24         16. 831         16. 775         31. 10         281. 401           25         16. 911         16. 855         31. 90         284. 091           26         16. 861         16. 805         32. 20         282. 408           27         16. 831         16. 775         34. 70         281. 401           28         16. 921         16. 865         35. 33         284. 428           29         16. 831         16. 775         36. 10         281. 401	4.960	83, 154
18         16.821         16.765         26.90         281.065           19         16.821         16.765         27.00         281.065           20         16.821         16.765         27.20         281.065           21         16.781         16.725         27.60         279.726           22         16.781         16.725         29.60         279.726           23         16.831         16.775         30.20         281.401           24         16.831         16.775         31.10         281.401           25         16.911         16.855         31.90         284.091           26         16.861         16.805         32.20         282.408           27         16.831         16.775         34.70         281.401           28         16.921         16.865         35.33         284.428           29         16.831         16.775         36.10         281.401	4,990	83.458
19         16. 821         16. 765         27. 00         281. 065           20         16. 821         16. 765         27. 20         281. 065           21         16. 781         16. 725         27. 50         279. 726           22         16. 781         16. 725         29. 60         279. 726           23         16. 831         16. 775         30. 20         281. 401           24         16. 831         16. 775         31. 10         281. 401           25         16. 911         16. 855         31. 90         284. 091           26         16. 861         16. 805         32. 20         282. 408           27         16. 831         16. 775         34. 70         281. 401           28         16. 921         16. 865         35. 33         284. 428           29         16. 831         16. 775         36. 10         281. 401	5. 128	85, 766
20         16.821         16.765         27.20         281.065           21         16.781         16.725         27.60         279.726           22         16.781         16.725         29.60         279.726           23         16.831         16.775         30.20         281.401           24         16.831         16.775         31.10         281.401           25         16.911         16.855         31.90         284.091           26         16.861         16.805         32.20         282.408           27         16.831         16.775         34.70         281.401           28         16.921         16.865         35.33         284.428           29         16.831         16.775         36.10         281.401	5. 187	86,960
21         16, 781         16, 725         27, 50         279, 726           22         16, 781         16, 725         29, 60         279, 726           23         16, 831         16, 775         30, 20         281, 401           24         16, 831         16, 775         31, 10         281, 401           25         16, 911         16, 855         31, 90         284, 091           26         16, 861         16, 805         32, 20         282, 408           27         16, 831         16, 775         34, 70         281, 401           28         16, 921         16, 865         35, 33         284, 428           29         16, 831         16, 775         36, 10         281, 401	5, 196	87. 111
22         16. 781         16. 725         29. 60         279. 726           23         16. 831         16. 775         30. 20         281. 401           24         16. 831         16. 775         31. 10         281. 401           25         16. 911         16. 855         31. 90         284. 091           26         16. 861         16. 805         32. 20         282. 408           27         16. 831         16. 775         34. 70         281. 401           28         16. 921         16. 865         35. 33         284. 428           29         16. 831         16. 775         36. 10         281. 401	5. 215	87. 429
23         16.831         16.775         30.20         281.401           24         16.831         16.775         31.10         281.401           25         16.911         16.855         31.90         284.091           26         16.861         16.805         32.20         282.408           27         16.831         16.775         34.70         281.401           28         16.921         16.865         35.33         284.428           29         16.831         16.775         36.10         281.401	5. 254	87.873
24         16, 831         16, 775         31, 10         281, 401           25         16, 911         16, 855         31, 90         284, 091           26         16, 861         16, 805         32, 20         282, 408           27         16, 831         16, 775         34, 70         281, 401           28         16, 921         16, 865         35, 33         284, 428           29         16, 831         16, 775         36, 10         281, 401	5. 441	91.001
25         16. 911         18. 855         31. 90         284. 091           26         16. 861         16. 805         32. 20         282. 408           27         16. 831         16. 775         34. 70         281. 401           28         16. 921         16. 865         35. 33         284. 428           29         16. 831         16. 775         36. 10         281. 401	5. 495	92.179
25         16. 911         16. 855         31. 90         284. 091           26         16. 861         16. 805         32. 20         282. 408           27         16. 831         16. 775         34. 70         281. 401           28         16. 921         16. 865         35. 33         284. 428           29         16. 831         16. 775         36. 10         281. 401	5. 577	93. 554
26     16.861     16.805     32.20     282.408       27     16.831     16.775     34.70     281.401       28     16.921     16.865     35.33     284.428       29     16.831     16.775     36.10     281.401	5. 648	95. 197
27         16.831         16.775         34.70         281.401           28         16.921         16.865         35.33         284.428           29         16.831         16.775         36.10         281.401	5. 675	95. 368
28         16, 921         16, 865         35, 33         284, 428           29         16, 831         16, 775         36, 10         281, 401	5. 891	98. 822
29 16. 831 16. 775 36. 10 281. 401	5. 944	100. 246
	6.008	100.784
	6. 537	110. 247
	6. 777	114. 294
	6. 792	
		115. 498
	7.018	1
	7. 202	
	7. 510	7
	7.623	
	7.669	131. 945
	7. 974	138.389
	8.049	138. 242
	8. 087	139.703
	8. 283	143.089
	8. 306	144. 400
	8.337	143. 438
44 17. 381 17. 325 70. 29 300. 156	8. 384	145, 253
	8.769	151. 923
46 17. 411 17. 355 79. 51 301. 196	8.917	154.755
	9.055	156, 878
	9.055	156.878
10	9.074	157, 751
	9. 220	158.630
	9. 530	165. 393
	0.001	172.767
	0.773	187. 289
	0. 592	9. 765
	0. 283	4.640
	0. 224	3, 684
10.411	0.346	5.673
合計 901.523 980.702 2400.99 16587.466 34	0. 346 0. 283 2. 650	4. 646 5835. 216

 $A = [n (H\sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 8.1081068$ 

B= [ (H2) \* [√Q] - (H) \* (H√Q) ] / [n (H2) - (H) ^2] -131.1894

B/A= -16.18003

Q=A^2 (H+-B/A) ^2= 65.74/396 \* (H - 16.18003)2

Table 3.2-12 H - Q Data of Ui St.2

地点名:	华耳橋		ST. 2	資料数N	65	
資料番号	H		Q	H 2	√ Q :	H√Q
1	27, 531	27, 528	0.02	757, 791	0, 141	3.881
2	27, 691	27. 688	2, 73	766. 625	1.653	45. 768
3	27. 691	27.688	3. 15	766, 625	1.776	49. 174
4	27, 691	27.688	3, 30	766, 625	1,817	50, 309
5	27, 691	27.688	3. 71	766. 625	1. 925	53. 299
- 6	27. 741	27. 738	4.50	769. 397	2. 122	58.860
1	27. 691	27. 688	4, 56	766. 625	2, 136	59, 142
8	27.691	27. 688	4.81	766, 625	2. 192	60, 692
9	27, 741	27, 738	4.83	769. 397	2, 198	60.968
10	27, 711	27, 708	5, 03	767, 733	2, 243	62, 149
11	27. 741	27. 738	5. 17	769, 397	2. 274	63,076
12	27. 741	27. 738	5. 21	769, 397	2, 283	63. 326
13	27. 741	27. 138	5, 26	769. 397	2. 294	63, 631
14	27. 711	27. 708	5. 58	167, 133	2. 361	65.419
15	27. 691	27.688	5. 71	766, 625	2, 390	66. 174
16	27. 691	27, 688	5.81	766, 625	2.411	66. 756
17	27.741	27. 738	5. 87	769, 397	2. 423	67. 209
18	27. 711	27, 708	5. 94	767. 733	2. 438	67. 552
19	27. 761	27. 158	6.00	770.507	2.449	67. 979
20	27. 751	27. 748	6.58	769, 952	2. 566	71. 201
21	27. 761	27.758	6.87	770, 507	2, 620	72. 726
22	27.771	27.768	6.99	771.062	2.643	73. 391
23	27.761	27, 758	7. 30	770. 507	2.703	75.030
24	27. 761	27.758	7. 43	770.507	2. 727 2. 742	75, 696 76, 140
25	27. 771 27. 761	27, 768 27, 758	7. 79	770.507	2.791	77. 473
26	27.761	27. 758	7.81	770. 507	2. 794	77. 556
28	27.801	27. 798	8.71	772. 729	2. 951	82.032
29	27. 801	27. 798	9.04	772. 729	3.007	83.589
30	27.801	21. 798	10.00	772. 729	3. 162	87.897
31	27.861	27.858	10. 28	776.068	3. 207	89.341
32	27. 851	27.848	10.69	775.511	3. 270	91.063
33	27. 841	27.838	10.84	774. 954	3. 293	91.671
34	27, 811	27.808	11.00	773. 285	3, 316	92. 211
35	27. 841	27. 838	11, 13	774. 954	3. 336	92.868
36	27. 861	27.858	11.50	776, 068	3. 391	94.466
37	27. 971	27. 968	11.66	782, 209	3. 415	95. 511
38	27, 971	27. 968	12. 43	782.209	3, 526	98.615
39	27. 981	27, 978	13.04	782.768	3.611	<u>101.029</u>
40	27.971	27. 968	13. 12	782. 209	3. 622	101.300
41	27. 991	27. 988	-13.49	783. 328	3, 673	102, 800
42	27. 981	27, 978	14, 15	782.768	3.762	105. 253
13	28.021	28.018	16. 21	785, 008	4.027	112.828
44	28.011	28.008	16. 22	784. 448	4.027	112. 788
15	27. 971	27. 968	16, 27	782, 209	4.034	112.823
46	28.051	28.048	18. 46	786. 690	4. 297	120. 522
47	28. 101	28.098	18. 92	789. 498	4.349	122. 198
48	28.041	28.038	19. 50	786. 129	4.416	123.816
49	28, 031	28.028	19.85	785. 569	4. 455	124, 865
50	28, 051	28.048	20.58	786.690	4. 536 4. 540	127. 226
51 52	28. 101 28. 111	28. 098 28. 108	20.61 21.79	789.498 790.060	4. 668	127. 565 131. 208
53	28. 101	28.098	22.00	789. 498	4.690	131. 780
54	28. 141	28. 138	23. 75	791. 747	4.873	137.116
55	28. 191	28. 188	28. 12	794. 563	5, 303	149.481
56	28. 241	28. 238	30. 31	797. 385	5. 506	155, 478
57	28. 331	28. 328	34.85	802.476	5. 903	167. 220
58	28. 421	28.418	43. 77	807. 583	6, 616	188.013
59	28. 431	28. 428	47. 80	808. 151	6.914	196, 551
60	28. 441	28.438	48. 82	808. 720	6. 987	198. 696
61	1 - 1 - 11	27. 588	0. 28	761.098	0.529	14. 594
62		27. 518	0.07	757, 240	0. 265	7. 292
63		27. 518	0. 03	757. 240	0. 173	4.761
64	1.1	27. 508	0.01	756, 690	0.100	2. 751
65		27. 538	0.04	758. 341	0, 200	5. 508
습하	1673.620	1811.110	784, 84	50466. 539	203.062	5679, 303
			14	100	100	W

 $A = [n (II/Q) - (II) * (/Q) ] / [n (II^2] - (II) ^2] 6.7463843$ 

 $B^{\pm}$  [ (H2) \* ( $\sqrt{q}$ ) - (H) \* (H $\sqrt{q}$ ) ] / [n (H2) - (H) ^2] - -184.8520

Λ^2= 45, 513701

B/A= -27. 40016

Q=A^2 (11+-B/A) ^2= 45.513701 + (H-27.40016)2 I -40

Table 3.2-13 H - Q Data of Chungroung St.1

地点名:	祭基橋	ŝ	т. 1	資料数N	48	
資料番号	H		Q	H 2	√Q I	I√Q
	13, 191	13. 218	0.71	174. 716	0.843	11, 143
2	13, 510	13. 537	8.99	183, 250	2. 998	40.584
3	13. 491	13. 518	9, 17	182.736	3.028	40. 933
	13, 531	13. 558	9, 25	183.819	3.041	41, 230
4		13. 538	9. 37	183. 277	3.061	41. 440
5	13, 511		9, 57	182. 736	3. 094	41.825
<u> 6</u>	13, 491	13. 518	9. 74	183. 277	3. 121	42. 252
7	13. 511	13, 538		182. 736	3. 151	42, 595
8	13. 491	13. 518	9, 93	185. 995	3. 678	50. 161
9	13, 611	13.638	13, 53	192.877	3. 776	52. 441
10	13.861	13.888	14. 26			53.098
11	13, 651	13, 578	15, 07	187.088	3.882	
12	13. 571	13. 598	15.69	184. 906	3, 961	53.862
13	13, 511	13, 538.	17. 50	183. 277	4, 183	56.629
14	13. 671	13.698	17.91	187.635	4. 232	57.970
15	13. 971	13.998	21. 25	195. 944	4.610	64. 531
16	13.691	13.718	22. 40	188. 184	4. 733	64. 927
17	13.751	13.778	22, 66	189. 833	4. 760	65. 583
18	13.741	13.768	22. 92	189. 558	4. 787	65, 907
19	13.871	13.898	23.60	193. 154	4. 858	67.516
20	13. 351	13. 378	23.86	178. 971	4.885	65. 352
21	13, 711	13.738	23. 98	188, 733	4. 897	67. 275
22	13, 811	13.838	24.01	191.490	4, 900	67.806
23	14.011	14.038	26.14	197.065	5. 113	71.776
24	13.891	13.918	26. 96	193.711	5, 192	72. 262
25	13.871	13.898	27. 98	193, 154	5. 290	73.520
26	14.081	14. 108	28. 80	199.036	5. 367	75. 718
27	13.941	13. 968	32, 81	195. 105	5. 728	80.009
28	14. 201	14, 228	34. 93	202. 436	5, 910	84.087
29	13.741	13, 768	36. 24	189.558	6.020	82.883
30	14. 141	14. 168	43. 75	200.732	6. 614	93. 707
31	14. 261	14. 288	45. 35	204. 147	6. 734	96, 215
32	14. 081	14, 108	46.05	199.036	6.786	95. 737
33	14.081	14. 108	47.60	199.036	6.899	97. 331
34	13. 991	14. 018	49.00	196. 504	7,000	98.126
35	14. 071	14. 098	50. 37	198.754	7.097	100.054
36	14. 271	14. 298	51.52		7.178	102.631
		14. 038	52. 16		7. 222	101.382
37	14.011	14. 268	55. 26		7. 434	106.068
38	14. 241	14. 288	55 <u>. 9</u> 7		7. 481	106.889
39	14. 261	14. 200	60.3 <u>6</u>		7. 769	111.314
40			61.70		<del></del>	113. 253
41	14.391	14.418 14.368	63.00			
42	14.341	14. 398	64.46			115. 602
43	14.371		64.52		8. 032	115. 323
44	14, 331	14, 358 14, 398			8. 322	119.820
45	14.371					2. 263
46	ļ	13.082	0.03			
47	<del> </del>	12.972	0.01			
48		13.137	0.01			
49		<del> </del>		0.000		
50			<del> </del>	0.000		
			<b> </b>	0.000		0.000
		<b></b>	<b> </b>	0.000		0.000
		<b> </b>	<u> </u>	0.000		0.000
		ļ	ļ	0.000		0.000
	<del></del>		<b></b>	0.000		0.000
· 合計	624.754	665, 160	1439.6	1 9224.046	241.842	3387. 435

 $A= \{n (H\sqrt{Q}) - (H) * (\sqrt{Q}) \} / (n (H^2) - (H)^2) 5.4783555$ 

 $B= [ (H2) * (\sqrt{Q}) - (H) * (H\sqrt{Q}) ] / [n (H2) - (H) ^2] -70.87793$ 

A^2= 30.012379

B/A= -12. 93781

Q=A^2 (H+-B/A) 2= 30.0/2379\*(H-12.93781)

Table 3.2-14 II - Q Data of Chungroung St.2

<b>地</b> 學後	: 接置人	4	ST. 2	THUN	98	1.
. (11)			Q		/ Q	11/ Q
<u>1</u>			0. 2		0. 539	8.614
12	\$1				1. 121	23.051
3	15.9				1.118	23, 976
	<u>16. 1</u>	84		7 269, 682	2.543	41, 761
	16. 2	34   16.13			2. 360	42, 168,
1		14 16.48	2 3. 2.	271,656	2. 869	47, 287
	15.2				2. 891	11.618
- 8	!6.2				2. 941	18. 191
10					3.941	65. 507
	16.4					65, 268
12	16.5				1.947	65.125
13	16. \$					11.029
14		16, 79			1.333	12, 573
15	16.5		2 19.12		1. 199 1. 106	73.458
16_	16. 48	16.72			1.100	73.853 74,588
	16, 51				1, 45L 4, 488	75. 273
18	15.5				1. 509	75.625
19	16.55	4 16, 19	2 20. 38		4.514	75. 199
20	15.53		20. 18		4. 526	15.910
21	16.55	16, 19	20.59	281, 971	4. 538	16, 202
22	16. 53			281. 100	4. 553	16. 363
23	16.53				1, 510	76, 618
21	16.51			281.536	4.631	17.717
25			21.48	281.971	4.635	17.831
25	- 15.54			281.636	1.710	79.043
28	16.58			282.980	4.743	19, 787
29	16.46			283.653	1.715	80. 121
30	16. 59	1 16. 832		278,957	1.918	- 82. 64L
10	16.63			283, 316 284, 664	1.981	83:840
12	16.50			283.653	5, 043 5, 083	85, 685 85, 608
33	16.55			285. 340	5. 192	87. 703
34	16.55			285. 678	5. 227	88.347
35	16.64		28.14	285. QQ2	5. 333	90.032
36	16.67	16.912	29. 28	286,016	3.111	91.511
37	15.69		30, 52	286.693	5. 525	93.519
38	16.72		32.63	287. 709	5. 712	35. 887
39	16. 74	16,982	32.19	_ <u>288. 388</u>	5. 726	37, 239
10	16.684		32, 90	286.351	5 136	97.055
!	15, 691	16, 932	32, 97	286, 693	5 142	97. 224
!3	16.75		34, 20	288. 128	3, 848	99, 369 101, 928
13	16, 784	17.022	35.86	289 748	5, 955	101, 928
15	16. 131		36, 20 36, 33	288.388	5.017	102, 181
15	16, 804		37, 10	288.049	6.021	102.290
11	16.654	15.892	38. 95	290, 430 285, 340	6. [40	101.638
18	16. 794		39.67	290.089	6, 241 6, 299	105, 423
19	16. 784		39, 13	289. 748	6. 303	107. 290
50	18.824		10.21	291. 112	5. 341	108.190
51	16.884		40.37	293.163	6 354	108, 793
52	16.824	17.062	40.49	291.112	6. 363	108.566
\$3	186.884	17. 122	11, 13	293. 163	6, 413	109. 803
	16.844	17.082	12.21	291.795	6. 197	110, 982
- 55	16.884	17 122	13, 40	793, 163	6.587	112.783
55	16. 354	17, 102	44. 26	292. 178	6.653	113.780
\$7 \$8	16. 921.	17. 152	15, 23	291. 531	6. 725	115, 414
59	16.981 15.724	17. 222 18. 962	45.58	295, 597	6.752	116. 281
60	15. 924	17. 162	46.11	281. 709	8. 791	115, 189
61	16.944	17, 182	47.59 48.61	294, 534 295, 221	6.898	118.383
62	15.961	17. 202	48.98	295. 909	6. 998	119.793 120.380
63	16.984	17. 222	49.25	296, 597	7.018	120. 364
- 64	15.954	17. 192	19.40	295, 565		120. 825
65	16,944	17. 182	\$0.59	295, 221		122. 216
66	16,974	17. 212	\$1.38	298. 253	7. [68	123, 376
	16, 954	17. 202	\$3.50	295. 909	7.314	125.815
1	16.981	17. 222	54.68	296, 597	7. 195	127. 151
- <u>59</u>	17.014	17. 252	55.08	297. 632	7. 121	128.027
71:	16. 954	17, 272	\$5.41 55.20	298. 322		28. 573
12	16. 934	17. 202 17. 172	55, 70	295. 909	7. 463	28. 379
13	17.084	17. 322	56. 27. 58. 00	294. 878 300. 052		28. 507
71	17.014	17. 252	\$8, 16	297. 632		31, 924  31, 564
15	17. 124	17, 352	60.13	301. 439		34. 625
76	17. 308	17. 546	50. 48	107. 862		36. 455
	17.094	17, 332	69. 71	300.398		35.051
	17.084	17. 322	61.75	300, 052		36. 116
19	17.131	11. 372	62, 69	301.786		37, \$51
80	12.121	17. 362	65.70	101.439	8. IC6	40. 736
81	17. 164	17. 402	85.71	302.830		12.122
82	17. 134	17, 372	69.15	301.786		44.486
83	17. 154	15.001	12.14	302.482		17. 710
35		15.094	0.08	259.017	0.283	1.555
86		16, 104 16, 184	0.02	259. 139 261. 922	0.100	1.610
87		15. 104	0.01	259. 339	0. 141 0. 100	1.510
- 88 - 6.1		16.104	0.01	259. 339	0. 200	3. 271
t _ idali{	1737. 670	1488.014	2312.94 25		472, 079 80	11. 227

A= [n (H√Q) - [H] + (√Q) ] / [n (H²2) - (N) \*2] 6.0223963

R= { (H2] + {√0} - {H} + (H√0) ] / {n (H2] - {H} \*2} ...-96. 16967

A 2 36. 269257

B/A= -16:01848

9-1 2 (HI-B/A) 2+ 36.289257 × (H-16.01848)2

Table 3.2-15 H - Q Data of Chungroung St.3

地点名:	覆蓋終点		ST. 3	資料数N	62	]
資料番号	Н		Q	H 2	√Q	H√Q
11	25, 217	25. 216	0.45	635. 847	0.671	16.920
2	25. 217	25. 216	1.14	635. 847	1.066	26.880
3	25. 197	25, 196	1. 32	634, 838	1.150	28. 975
4	25, 207	25. 206	2.01	635, 342	1.418	35, 742
5	25. 217	25. 216	2. 12	635. 847	1, 457	36, 740
6	25. 277	25. 276	2.16	638.876	1, 469	37. 130
7	25. 277	25. 276	2.17	638. 876	1.473	37. 232
8	25. 277	25, 276	2.19	638. 876	1. 480	37. 408
9	25. 347	25. 346	2, 79	642, 420	1. 671	42. 353
10	25, 307	25. 306	2. 19	640. 394	1.671	42, 286
11	25. 347	25. 346	2.80	642. 420	1.673	42. 404
12	25, 357	25. 356	2, 81	642. 927	1.676	
13	25. 307	25. 306	2, 90	640. 394	<del></del>	42. 497
14	25. 307	25.306			1.703	43.096
15			2.91	640.394	1.707	43. 197
	25. 397	25. 396	3, 32	844. 957	1.821	46. 246
16	25. 357	25. 356	3. 33	642. 927	1.824	46. 249
17	25. 357	25. 356	3. 67	642. 927	1, 916	48. 582
18	25. 357	25. 356	3. 68	642, 927	1. 918	48.633
19	25. 347	25. 346	3, 69	642.420	1. 920	48.664
20	25. 397	25. 396	3, 92	644. 957	1.980	50. 284
21	25, 397	25. 396	3, 94	644. 957	1. 986	50.436
22	25, 497	25. 496	4. 25	650, 046	2.060	52. 522
23	25. 457	25, 456	4.57	648.008	2. 139	54.450
24	25. 497	25. 496	4.74	650.046	2, 176	55.479
25	25, 457	25. 456	4.77	648,008	2. 185	55. 621
26	25. 357	25. 356	5, 41	642, 927	2. 326	58. 978
27	25, 277	25, 276	5. 92	638.876	2. 432	61.471
28	25. 277	25, 276	6.32	638. 876	2. 514	63, 544
29	25. 277	25. 276	8, 50		2.549	64.429
30	25. 357	25. 356	6.61	642.927	2. 571	65. 190
31	25, 487	25. 486	6.91	649. 536	2. 628	66. 977
32	25. 347	25. 346	7. 66	642.420	2.767	70.132
33	25. 347	25. 346	8.24	642. 420	2.870	72.743
34	25. 357	25_356	8.63	642. 927	2. 938	74. 496
35	:: 25. 477	25. 476	8.95	849.027	2. 992	76. 224
36	25, 397	25. 396	9. 42	644. 957	3, 070	77, 966
37	25. 607	25.606	10.18	655. <u>667</u>	3.190	81.683
38	25, 397	25, 396	10.55	644. 957	3, 249	82. 512
39	25. 607	25.606	10.85	655. 667	3. 294	84. 346
40	25. 457	25. 456	11.68	648.008	3, 418	87.009
41	25. 457	25. 456	12, 55	648.008	3. 543	90, 191
42	25. 497	25. 496	12, 60	650.046	3. 549	90.485
43	25, 627	25, 626	12. 76	656. 692	3, 572	91, 536
44	25, 537	25. 536	12. 92	652, 087	3, 594	91.776
45	25. 597	25, 596	13. 26	655. 155	3. 642	93, 221
46	25. 557	25. 556	13. 51	653, 109		93. 918
47	25. 497	25. 496	13, 65	650.046	3.694	94. 182
48	25, 647	25. 646	14.03	657, 717	3. 745	96.044
49	25, 557	25. 556	14.85	653, 109	3.854	98. 493
50	25. 617	25. 616	15, 09	656, 179	3. 885	99. 518
51	25. 557	25. 556	15.61	653, 109	3. 951	100.972
52	25, 767	25. 766	19. 13	663, 887	4. 374	112, 700
53	25. 837	25.836	22. 56	667. 499	4. 749	122. 695
54	25. 857	25. 856	23. 12	668, 533	4. 808	124. 316
55	25.817	25. 816	23.89	666.466	4. 888	126. 189
56	25. 837	25. 836	26.05	667. 499	5. 104	131.867
-57	25, 867	25.866	28. 01	669.050	5. 293	136.909
58		25. 211	0. 23	635. 595	0.480	12. 101
59		25. 201	0.19	635. 090	0. 436	10. 988
60		25. 201	0.14	635.090	0. 374	9. 425
61		25. 191	0.19	634. 586	0.436	10. 983
62		25. 176	0. 10	633.831	0.316	7. 956
	1450. 529	1576, 452		10085. 929	156. 980	4004. 191
		, 100 1	1-4.00		100. 200	2002, ISI

 $A = [n (H\sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 6.2231346$ 

B= [ (H2) \*  $(\sqrt{Q})$  - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -155.7015

A^2= 38.727405

B/A= -25. 01978

Q=A^2 (H+-B/A) ^2= 38.727405 \*(H-25.01978)2

Table 3.2-16 Low Water Discharge of Anyang St.1

1.1 1. 4.	in an in		Some about Will was		
地点名:	楊花橋	ST. 1	資料数N	5	
資料番号	Н	Q	Н 2	√Q	H√Q
_11	3.202	6.39	10.253	2.528	8.095
2	3.332	7.09	11.102	2.663	8.873
3	3.192	6.69	10.189	2.587	8.258
4	3.062	3.70	9.376	1.924	5.891
5	3.150	6.49	9, 923	2.548	8.026
6	0.000	0.00	0	0	0
7	0.000	0.00	0	0	0_
8	0.000	0.00	0	0	0
9	0.000	0.00	0	0	0
10	0.000	0.00	0	0	0
合計	15.938	30.36	50.843	12.25	39.143

 $A = [ H (H \sqrt{Q}) - (H) * (\sqrt{Q}) ] / [ H (H^2) - (H)^2] 2.4313882$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -5.300293

 $A^2 = 5.9116486$ 

B/A = -2.179945

Q=59116486 × (H-2.179945)2

Table 3.2-17 Low Water Discharge of Anyang St.2

			(		]
地点名:	梧木橋	ST. 2	資料数N	5	
資料番号	Н	Q	Н 2	√Q	H√Q
1	3,841	1.96	14.753	1.4	5.377
2	3.851	3.49	14.83	1.868	7.194
3	3,851	3.43	14.83	1.852	7.132
4	3.851	3.26	14.83	1.806	6.955
5	3.881	5.38	15.062	2.319	9
6	0.000	0.00	0	. 0	0
7	0.000	0.00	0	0	0_
8	0.000	0.00	0	0	0
9	0.000	0.00	0.	0	0
10	0.000	0.00	0	. 0	0
合計	19.275	17.52	74.305	9. 245	35.658

 $A = [n (H \sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] - 148.2000$ 

B= [ (H2) \* ( $\sqrt{Q}$ ) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] 573.16000

Λ^2= 21963.240

B/A= -3.867476

Q=21963.24 x (H-3.867476)2

Table 3.2-18 Low Water Discharge of Anyang St.3

				I	1
地点名:	新亭橋	ST. 3	資料数N	5	
資料番号	Н	Q	H 2	√Q	H √ Q
1	4.648	0.06	21.604	0.245	1.139
2	4.618	0.04	21.326	0.2	0.924
3	4.658	0.10	21.697	0.316	1.472
4	4.658	0.10	21.697	0.316	1.472
5	4.833	0.91	23.358	0.954	4.611
6	0.000	0.00	0	0	0
7	0.000	0,00	0	0	0
8	0.000	0.00	0	0	0_
9	0.000	0.00	0	0	0
10	0.000	0.00	0	0	0
合計	23.415	1.21	109.682	2.031	9.618

A=  $[n (H\sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 3,6145153$ 

B= [ (H2) \* ( $\sqrt{Q}$ ) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -16.52057

A^2= 13.064720

B/A = -4.570619

Q=13.06472 x(H-4.570619)2

Table 3.2-19 Low Water Discharge of Anyang St.4

وخيا ال	Jan A. tas				
地点名:	梧金橋	ST. 4	資料数N	5	
資料番号	Н	Q	H 2	√Q	H·√ Q
1	4.414	1.56	19.483	1.249	5.513
2	4.544	5.96	20.648	2.441	11.092
3	4.484	3.56	20.106	1.887	8.461
4	4.484	2.93	20.106	1.712	7.677
5	4.489	4.34	20.151	2.083	9.351
6	0.000	0.00	0	0	0
7	0.000	0.00	0	0	0
8	0.000	0.00	0	0	0
9	0.000	0.00	0	0	. 0
10	0.000	0.00	.0	0	. 0
合計	22.415	18.35	100.494	9.372	42.094

$$B = [ (H2) * (\sqrt{Q}) - (H) * (H\sqrt{Q}) ] / [n (H2) + (H) ^2] - 45.19502$$

A^2= 110.24027

B/A = -4.304477

Q=110.24027 x (H-4.304477)

Table 3.2-20 Low Water Discharge of Anyang St.5

			<u></u>		ŀ
地点名:	安養橋	ST. 5	資料数N	5	:
資料番号	Н	Q	Н 2	√Q	H√Q
1	5.234	2.37	27.395	1.539	8.055
2	5.304	4.60	28.132	2.145	11.377
3	5.254	2.83	27.605	1.682	8,837
4	5.264	3.07	27.71	1.752	9.223
5	5. 299	3.98	28.079	1.995	10.572
6	0.000	0.00	0	0	0
7	0.000	0.00	0	. 0	0
8	0.000	0.00	. 0	0 :	0
9	0.000	0.00	0	0	0
10	0.000	0.00	0	0	0
合計	26.355	16.85	138.921	9.113	48.064

 $A = [n (H \sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 7.7409749$ 

B= [ (H2) \* ( $\sqrt{Q}$ ) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) 2] -38,98007

A^2 = 59.922693

B/A = -5.035551

Q=59.922693 x (H-5.035551)2

Table 3.2-21 Low Water Discharge of Anyang St.6

地点名:	起亚大橋	ST. 6	資料数N	4	<del></del>
資料番号	H	Q	Н 2	√ Q	H√Q
1	10.123	2.46	102.475	1.568	15.873
2	10.153	5.05	103.083	2.247	22.814
3	10.133	3.45	102.678	1.857	18.817
4	10.133	3.67	102.678	1.916	19.415
5	0.000	0.00	0	0	0
6	0.000	0.00	0	0	0
7	0.000	0.00	0	0	0
8	0.000	0.00	0	0	0
9	0.000	0.00	. 0	0	0
10	0.000	0.00	0	0	0
合計	40.542	14.63	410.914	7.588	76.919

 $A = [n (H \sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 19.366726$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -194.3944

A^2 = 375.07008

B/A = -10.03754

Q=375.07008 \*(H-10.03754)2

Table 3.2-22 Low Water Discharge of Yangjae St.1

					1
地点名:	大侍橋	S Т. 1	資料数N	7	
資料番号	Н	Q	H 2	√Q	н√Q
1	5.029	3.28	36.349	1.811	10.919
2	5.859	2.23	34.328	1.493	8.747
3	5.809	1.01	33.744	1.005	5.838
4	5.869	1.07	34.445	1.034	6.069
.5	5.939	1.78	35.272	1.334	7.923
6	5.839	0.92	34.094	0.959	5.6
7	5.799	0.62	33.628	0.787	4.564
8	0.000	0.00	0	0	0
9	0.000	0.00	0	0	0
10	0.000	0.00	0	0	0
合計	41.143	10.91	241.86	8.423	49.66

A=  $[n (H/Q) - (H) * (/Q)] / [n (H^2) - (H)^2] 3.9206985$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -21.84089

A^2= 15.371876

B/A = -5.570665

Q=15.371876 ×(H-5.570665)2

Table 3.2-23 Low Water Discharge of Yangjae St.2

		i			]
地点名:	永東二橋	ST. 2	資料数N	7	·
資料番号	Н	Q	H 2	ΓQ	н√о
1	6.029	3.28	36.349	1.811	10.919
2	5.859	2.23	34.328	1,493	8.747
3	5.809	1.01	33.744	1,005	5.838
4	5.869	1.07	34.445	1.034	6.069
5	5.939	1.78	35.272	1.334	7.923
6	5.839	0.92	34.094	0.959	5.6
7	5.799	0.62	33.628	0.787	4.564
8	0.000	0.00	0	0	0
9	0.000	0.00	0	0	0
10	0.000	0.00	0	0	0
合計	41.143	10.91	241.86	8.423	49.66

 $A = [n (H \sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 3.9206985$ 

B= [ [H2] \*  $(\sqrt{Q})$  - [H] \*  $(\sqrt{Q})$  ] / [n [H2] - [H] ^2] -21.84089

 $A^2 = 15.371876$ 

B/A = -5.570665

Q=15371876 x CH-5.570665}

Table 3.2-24 Low Water Discharge of Yangjae St.3

	:				}
地点名:	如意橋	ST. 3	資料数N	4	
資料番号	H	Q	Н 2	√Q	H√Q
1	15.379	0.32	236.514	0.566	8.705
2	15.339	0.09	235. 285	0.3	4.602
3	15.319	0.06	234.672	0.245	3,753
4	15.309	0.05	234.365	0.224	3.429
5	0.000	0.00	0	0	0
6	0.000	0.00	0	0	0_
7	0.000	0.00	0	0	0
8	0.000	0.00	0	0	0
9	0.000	0.00	0	. 0	0
10	0.000	0.00	0	0	0.
合計	61.346	0.52	940.836	1.335	20.489

 $A = [n (H \sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 4.8103223$ 

B= [ (H2) \* ( $\sqrt{Q}$ ) - (H) \* (N $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -73.43975

A^2= 23.139201

B/A = -15.26711

Q=23.139201 × (H-15.26711)2

Table 3.2-25 Low Water Discharge of Yangjae St.4

地点名:	牛眠橋	ST, 4	資料数N	5	
資料番号	Н	Q	H 2	√ Q	H√Q
1	16.138	1.97	260.435	1.404	22.658
2	15.988	0.76	255.616	0.872	13.942
3	15.988	0.77	255.616	0.877	14.021
4	16.058	1.03	257.859	1.015	16.299
5	15.998	0.67	255.936	0.819	13.102
6	0.000	0.00	0	0	. 0
7	0.000	0.00	0	0	0
8	0.000	0.00	0	0	0
9	0.000	0.00	0	0	0
10	0.000	0.00	0	0	0
合計	80.17	5.2	1285.462	4.987	80.022

 $A = [n(H \sqrt{Q}) - (H) * (\sqrt{Q})] / [n(H^2) - (H)^2] 3.7263871$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -58.75149

A^2= 13.885961

B/A = -15.76634

Q=13.885961 = (H-15.76634)2

Table 3.2-26 Low Water Discharge of Ui St.1

			F	1	1
地点名:	長月橋	ST. 1	資料数N	5	
資料番号	Н	Q	H 2	√Q	H √ Q
1	16.495	0.350	272.085	0.592	9.765
2	16.395	0.080	268.796	0.283	4.64
3	16.445	0.050	270.438	0.224	3.684
4	16.395	0.120	268,796	0.346	5.673
5	16.417	0.080	269.518	0.283	4.646
6	0.000	0.000	. 0	0	. 0.
7	0.000	0.000	0	0	0
8	0.000	0,000	0	0	0
9	0.000	0.000	0	0	0_
10	0.000	0.000	0	0.	0
合計	82.147	0.68	1349.633	1.728	28.408

 $A = [n (H \lor Q) - (H) * ( \lor Q) ] / [n (H^2) - (H)^2] 2.5425673$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H)  $^{\circ}$ 2] -41.42725

A^2= 6.4646485

 $B/\Lambda = -16.29347$ 

Q=6.4646485x(H-16.29347)2

Table 3.2-27 Low Water Discharge of Ui St.2

					]
地点名:	牛耳橋	S Т. 2	資料数N	6	
資料番号	Н	Q	Н 2	√Q	H√Q
1	27.588	0.280	761.098	0.529	14.594
2	27.518	0.070	757.24	0.265	7.292
3	27.518	0.030	757.24	0.173	4.761
4	27.508	0.010	756.69	0.1	2.751
5	27.538	0.040	758.341	0.2	5.508
6	27.528	0.020	757.791	0.141	3.881
7.	0.000	0.000	0	0	. 0
8	0.000	0.000	. 0	0	0
9	0.000	0.000	0	0	0
10	0.000	0.000	0	- :0	0
合計	165.198	0.45	4548.4	1.408	38, 787

 $A = [n (H \sqrt{Q}) + (H) * (\sqrt{Q})] / [n (H^2) - (H) ^2] 5.9249855$ 

$$B = [ (H2) * ( \sqrt{Q}) - (H) * (H\sqrt{Q}) ] / [n (H2) - (H) ^2] = -162.8979$$

A^2= 35.105454

B/A = -27.49339

Q=35.105454×(H-27.49339)2

Table 3.2-28 Low Water Discharge of Chungroung St.1

	•			<u> </u>	1
地点名:	祭基橋	ST. 1	資料数N	. 4	
資料番号	Н	Q	H 2	√Q	H√Q
1	13.082	0.030	171.139	0.173	2.263
2	12.972	0.005	168.273	0.071	0.921
3	13.137	0.012	172.581	0.11	1.445
4	13.218	0.710	174.716	0.843	11.143
5	0.000	0.000	0	0	0
6	0.000	0.000	0	0	0
7	0.000	0.000	0	0	0
8	0.000	0.000	0	0	0
9	0.000	0.000	0	0	0
10	0.000	0.000	0	. 0	0
合計	52.409	0.757	686.709	1.197	15.772

 $\Lambda = [n (H \vee Q) - (H) * ( \vee Q) ] / [n (H^2) - (H)^2] 2.6705068$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] -34.69039

A^2= 7.1316068

B/A = -12.99019

Q=7.1316068×(H-12.99019)

Table 3.2-29 Low Water Discharge of Chungroung St.2

					ì
地点名:	鐘岩橋	S T. 2	資料数N	6	
資料番号	Н	Q	Н 2	√Q	H√Q
1	16.094	0.080	259.017	0.283	4.555
2	16.104	0.004	259.339	0.063	1.015
3	16.184	0.020	261.922	0.141	2.282
4	16.104	0.010	259.339	0.1	1.61
5	16.104	0.040	259.339	0.2	3. 221
6	16.092	0.290	258.952	0.539	8.674
7	0.000	0.000	0	0	0
8	0.000	0.000	0	0	0
9	0.000	0.000	0	0	0
10	0.000	0.000	0	0	0
合計	96.682	0.444	1557.908	1.326	21.357

A=  $[n (H \lor Q) - (H) * ( \lor Q) ] / [n (H^2) - (H) ^2] -1.500463$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) ^2] 24.398960

A^2= 2.2513892

B/A = -16.26095

Q=2.25/3892 = (H-16.26095)2

Table 3.2-30 Low Water Discharge of Chungroung St.3

					1
地点名:	覆蓋終点	s T. 3	資料数N	6	
資料番号	Н	Q	H 2	√Q	H√Q
1	25.211	0.230	635.595	0.48	12.101
2	25.201	0.190	635.09	0.436	10.988
3	25.201	0.140	635.09	0.374	9.425
4	25.191	0.190	634.586	0.436	10.983
5	25.176	0.100	633.831	0.316	7.956
6	25.216	0.470	635.847	0.686	17.298
7	0.000	0.000	0	0	0
8	0.000	0.000	0	0	0
9	0.000	0.000	0	0	0
10	0.000	0.000	0	0	0
合計	151.196	1.32	3810.039	2.728	68.751

 $A = [n (H \sqrt{Q}) - (H) * (\sqrt{Q})] / [n (H^2) - (H)^2] 12.084821$ 

B= [ (H2) \* (
$$\sqrt{Q}$$
) - (H) \* (H $\sqrt{Q}$ ) ] / [n (H2) - (H) 2] -304.0747

A^2= 146.04290

B/A = -25.16171

Q=146.0429x(H-25.16171)