Appendix-3.3.3 (13) Annual GDP Growth Rates by Zone for Demand Forecast (Without Capital Relocation)

	T	Low Case			Modium Case				High Case			
Region	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
	2000	-2005	-2010	2020	-2000	-2005	-2010	-2020	-2000	-2005	-2010	-2020
(Domestic)		1										
Almaly	5.7	9 4.95	4.39	3.81	6.30	5.46	4.89	4,31	6.70	5.86	5.40	4.81
West Kaz.	5.7	7 5.42	5,42	4.89	6.27	5.93	5.93	5.40	6.68	6.33	6.44	5.90
Aktyubinsk	5,1	4,71	5.22	4,43	5.68	5,23	5.73	4,94	6.09	5.61	6.24	5,44
Karaganda	4,4	4.81	4.69	4,22	4,99	5.31	5.19	4.72	5.39	5,71	\$.70	5.23
Kustanay	3.2	8 4,26	4,54	3.87	3.77	4,76	5.04	4.3?	4,17	5.16	<b>\$.5</b> 5	4.87
Atyrau	5.3	6 6.06	5.35	5,17	5.89	6.57	5.85	5.67	6.29	6.97	6.36	6.18
Fast Kaz,	4.2	5 4.81	4,49	4,12	. 4,75	5.31	4.99	4.62	5.15	5,71	5.49	5.13
South Kaz.	3.7	2 4.57	4.17	3.84	4,27	5.07	4.68	4.35	4.67	5.47	5.18	4.85
7Jiantei1	4.8	0 5.04	6.51	5.23	5.30	5.54	7.02	5.74	5,70	5,94	7.54	6.25
Almola	6.0	4 8.98	8.04	4,56	6.55	9.50	8.56	. 306	6.96	9.92	9.08	5.57
Semipalatinst	4.6	2 5.67	4.68	4.64	5.12	6.18	5.18	5.15	5.53	6.59	5.68	5.65
Kekehetau	3.4	3 5.35	4.38	4.33	3.92	5.85	4,88	4.54	4.32	6.25	5.39	534
Pavlodat	4.0	0 4.76	4,27	3.99	4.50	5.27	4,27	4,49	4.90	5.67	5.27	1,99
North Kaz	3.6	7 5.12	4.76	4,41	4,17	5.63	5.27	4,91	4.56	6.03	5.77	5.42
Kzyl Onla	6.6	7.51	4.45	5.43	7,14	8.02	4.96	5.94	7.55	8,43	5.46	6.45
7herkargan	5,4	1 5.82	4.76	4,75	5.92	6.33				6.74	5.77	5.77
Turgai	2.0	3 4.30	4.81	4.00	2.52	4.80	5.32	4.53	2.91	5.20	5.82	5.03
Mangistau	3.1		5.19	5.07	3.65	6.52		5.56		6.93	6.21	6.08
Taldytorgen	2.4	2 4.55	4,24	3.87	2.91	<b>5.</b> 05	4,75	4,37	3.30	5.45	5.25	4.87
(Interal-1)		I							I			
Russia	4.3	6 4.49	1	3.56	4.87	5.00	4,49	3.57	5.37	5.50	5.00	4.37
East Furope	4.1	0 4.19	3.89	3.23	4.60	4.69	4.19	<b>3</b> .53	5.10	5 20	4.69	4.03
Central Asia	4.3		1	3.56	4.87	5.00	4.49	3.87	5.37	5.50	5.00	4.37
China	8.7				9.28				9.79	9.20	8.70	8.03
Mongotia	4.3	6 4.49	4,19	3.56	4.87	5.00	4,49	3.87	5.37	5.50	5.00	: 437
(Intern 1-2)	.1						L			L		
Fai Fas Asia	3.1		1	1.76	3.45	3.20	2,70		1	3.50	3.00	2.36
Western Asia	5.9	-1	4.59	3.56	6.46	6.02	5.51	4,44	6.97	6.53	6.02	4.95
Other Asia	6.4	1		6.63	6.98		6.12	5.13	7.49	7.13	5.61	4.63
Western Europe	2.7		1	1,90	3.09			2.20	3.39	3.28	2,98	2.50
None America	3.5	1	1	2.50	3.83	3.59		<del></del>	4,14	3.89	3.59	3.10
Australia,etc.	3.9			2.70	4.27	3.95		3.0)		4.25	3.95	3.31
Africa	4.5		<del>1</del>	3.07	4.90	<u> </u>			5.21	4.88	4.58	3.68
Others	4.6	9 4.43	3.92	3,16	5.19	4,94	4,43	3.6	5,70	5,44	4,94	4,17

#### GDP Growth Pate by Region (1995=1.0)

I	Low Case				Medium C	150			High Cas			
· •	2000	2005	2010	2020	2000	2005	2010	2020	2000	2005	2010	2020
Almaty	1.3250	1.6872	2.0915	3.0385	1.3570	1.7699	2.2473	3.426?	1.3831	1.8386	2.3911	3.9254
West Kaz.	1.3235	1.7236	2.2441	3 6165	1.3555	9,8080	2,4113	4.0781	1.3816	1.8782	2.5656	4,5526
Aktyubinsk	1,2871	1 6199	2.0895	3.2240	1.3153	1.6992	2.2452	3.6355	1.3436	1.7652	2.3888	4.0585
Karaganda	1.2456	1.5754	1.9812	2.9950	1.2757	1.6536	2 1288	3.3773	1.3003	1.7168	2,2650	3.7702
Kustanay	1.1751	1.4475	1.8073	2 6417	1.2035	1.5154	1,9419	2.9789	1,2267	1.5774	2.0661	3.3255
Аіутан	1.2996	1.7439	2.2628	3.7444	1.3310	1.8293	2.4313	4,2224	13566	1 9004	2.5569	4,7137
Fast Kaz	1.2336	1.5577	1.9399	2.9641	1,2614	1.6340	2 0844	3.2745	1.2557	1,6974	2.2178	3.6558
South Kaz.	1.2034	1.5048	3.8462	2.6919	1.2325	1.5785	1.9838	3.0356	1.2562	1.6398	2.1107	3.3837
7 haobul	1.2642	1.6164	2.2156	3.6904	1.2947	1.6956	2.3806	4.1615	131%	1.7614	2 5329	4.6457
Almota	1.3410	2.0615	3.0346	4,7385	1.3735	2.1624	3.2607	5.3434	1.3999	2.2464	3,4693	5.9650
Semipalatinsk	1.2535	1.6519	2.0760	3.2616	1.2839	1.7328	2 2307	3.6847	1.3056	1.6001	2.3734	4,1134
Kokehetau	1.1835	1.5354	1.9026	2.9070	1,2121	1.6106	2.0443	3.2781	1.2354	1.6732	2.1751	3.6595
Paykotat	1.2169	1.5357	1.8928	2.7983	1.2463	1.6110	2.0338	3.1555	1.2703	1.6735	2.1639	3.5227
North Kaz	1.1974	1.5371	1.9397	2.9853	1.2264	1.6124	2.0842	3.3675	1.2500	1.6750	2.2375	3.7592
Kryl Orda	1.3787	1,9799	2,4617	4.1776	1.4121	2.0169	2,6451	4.7109	1.4392	2,1576	2.5143	5.2590
Zheckangan	1.301?	1,7275	2.1793	3,46?8	1.3332	1.8121	2.3417	3.9164	1.3588	1.8825	2,4915	4.3654
Turgal	1.1059	1.3651	1.72%	2.5618	1.1327	1.4319	1.8552	2.8558	1.1545	3,4875	1.9739	3,2249
Mangistan	1.1679 -	1.5638	2.0143	3.3020	1.1962	1,6404	2.1644	3.7235	1.2192	3,7041	2.3029	4.1567
Tallykorgan	1,1269	1.4074	1.7325	2.5314	1.1542	1.4 63	1.8616	2.8546	1.1764	1.5337	1,9806	3.1567
Russia	1.2350	1.5422	1.9936	2.6876	1.2681	1.6181	2.0158	2,9454	1.2958	1.6974	2,1660	3.3214
Fast Europe	1.2224	1,5011	1.8168	2,4962	1.2521	1.5750	1.9340	2.7357	1.2824	1.6521	2.0781	
Central Asia	1.2380	1.5422	1.8736	2.6876	1.2681	1.6181	2.0158	2.9454	1.2988	1.6974	2.1660	3.3214
Chira	1.5227	2.2576	3.2699	6,4494	1.5565	2.3649	3.5062	7.2463	1.5949	2.4768	3,7584	8.1386
Mongolia	1.2380	1.5422	1.8936	2.68.6	1.2681	1.6181	2.0158	2,9454	1.2988	1.6974	2.1660	3.3214
Far Fara Aria	1.1676	1.3469	1.5163	1.8050	1.3548	1.3869	1.5\$43	1.9424	1.2023	1,4279	1.6553	2.6838
Western Asia	1.3347	1.7449	2.2364	3.2723	1.3674	1.8315	2.3944	3.6956	1,4007	1.9219	2.5742	4.1713
Other Asia	1_4680	1,6407	2,4182	3.8019	1,4030	1.9307	2.5950	4.2863	1.4347	2.0247	2.6592	4,1818
Weston Funge	1.1475	1.3097	1,4732	1.7788	1.1644	1.3456	1.5393	1.9140	1,3815		1,6061	
North America	1.3895	1.3985	1.6203	2 0734	1.20%	1.4400	1.6930	2.2310	1.2247		1,7687	2,4002
Australia,etc.	1.2144	1.4525	1.7119	2 2356	1.2323	1.4956	1.7888	2.4057	1.2504	1.5399	1.8689	
Africa	1.2518	1.5431	1.8743	2.535?	1.2703	1.5889	1.9585	2,7287	1.2889	1.6359		
Others	1.2573	1.5616	1.8929	2.5840	1 2581	1.6391	2 0358	2.9183	1.3195	1.7200	2,1887	3.2939

# Appendix-3.3.4 (1) Procedure of Competitive Air Passenger Traffic Demand Forecast

Competitive air passenger traffic demand forecast were made by applying a step-by-step method of which the major components are briefly described as follows:

- [1.1] Estimate of current inter-zonal passenger traffic flow in 1995
  - a. Air passenger Origin Destination (OD) flow
  - b. Railway passenger OD flow
  - c. Bus passenger OD flow
  - d. Total passenger OD flow (a + b + c)

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- [1.2] Calculation of modal shares on each OD Pair ((O→D)+(D→O)) in 1995
  - a. Share of air passenger transportation (a/d)
  - b. Share of railway passenger transportation (b/d)
  - c. Share of bus passenger transportation (c/d)

[2] Estimate of trip time and trip cost by mode and by OD Pair

П

[3.1] Formulation of modal share estimate model, hereafter called the Modal Demand Model (MD) Model, using data of foregoing [1] and [2]

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- [3.2] Improvement of applicability of originally formulated MD Model by quantification of "dummy factors" (minus and none-minus additional time and / or cost) so that each modal share estimated by the model may approximate to the respective actual share. Hereafter, this step of work will be called a "reproduction of original situation".
- [4] Forecast of total passenger traffic demand by OD pair and by case for target years

U

[5] Forecast of modal shares by OD Pair and by case for target years applying the MD Model

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[6] Forecast of air passenger traffic demand by OD pair and by case for target years

#### [1.1] Estimate of current inter-zonal passenger traffic flow

#### a. Air passenger flow

Inter-zonal air passenger flow in 1995 is estimated as follows:

- 1. First, inter-zonal air passenger flows within Kazakhstan were made in the form of OD tables by simply editing the statistics of departed air passengers by destination airport from each airport in Kazakhstan. These were originally provided by Kaz-Air. The OD table is shown in Appendix-3.3.4 (2)
- 11. Secondly, inter-CIS and international zonal departed air passenger flows from each zone of Kazakhstan were estimated based on the statistics of Kaz-Air and Ministry of Statistics and Analysis and by applying assumed weights for distribution of air passengers over related zones. The applied weights are shown in Appendix-3.3.3 (5). The statistics of MOSA include departed air passengers classified into: international; inter-CIS (breakdown of departure and transit); inter-regional (breakdown of departure and transit); within-region; and others (See Appendix-3.3.4 (3)). It should be noted that the "weights for distribution" were only applied for estimating air passengers carried by foreign airlines. The statistics of inter-CIS and international air passengers carried by Kaz-Air are quoted int the air passenger OD table. Passengers of "Others" in the statistics are distributed proportionately over the origin/destination passengers.
- 111. The final air passenger OD table was compiled by assuming that the inter-CIS and international arriving air passengers equaled those departing. This was done due to the lack of arrival data; even though the migration statistics of Kazakhstan in 1995 indicates emigration exceeds immigration. In this sense The OD table may therefore show overestimates. It should be noted that this did not significantly affect the forecasts. (See Appendix-3.3.4 (4)).

#### b. Railway and bus passenger OD flow

It was very important to understand the traffic flow and market shares of the other competitive modes, because this forecasting method can never be applied without such information. However, as far as these traffic flows are concerned, it was only possible to make rough estimates or use some hypothetical ones due to the very limited inter-zonal traffic flow data. Refer Fig 3.3.4 1.

The formulation of applied models and applied data are shown in Appendix-3.3.4 (5)~3.3.4 (12). The OD tables for railway and bus passengers have been omitted, but this information will be shown later in the form of modal shares together with total passengers by OD pair.

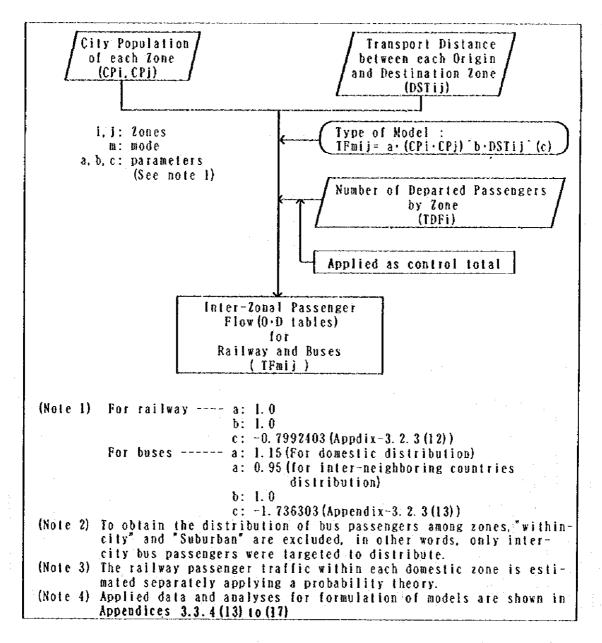


Fig 3.3.4.1 Method for rough Estimate of Passenger Traffic OD Flow of Railway and bus passengers

#### [1.2] Estimate of Total Number of Air Passengers and Modal Share by OD Pair

Total number of passengers and modal shares by OD pair in 1995 were easily obtained from the previously obtained OD tables. The results are shown in Appendix-3.3.4 (13).

#### [2] Estimate of Trip Time and Trip Cost by OD Pair

Trip time and trip cost by OD pair were estimated applying the following model in Table 3.3.4.1.

Table 3.3.4.1 Models for Estimate of Trip Time and Trip Cost

		(Tenge and Hour)
Railway	Cost: RCij = (0.6190926× DRij)/100	(DRLij<=500 km)
	$RCij = (230.4 + 1.126075 \times DRij)/100$	(DRLij >500 km)
	Time: RTij = DRLij/50	,
Bus	Cost: $BCij = (4.0 + 1.214835 \times DBij)/100$	
	Time: BTij = Dbij/60	
Air	Cost: $ACij = (909.6 + 3.311398 \times DAij)/100$	
	Time: $ATij = 2.0 + DA/800$	

Note1: As shown in the models, the unit of each trip cost is shown at 100 tenges.

Note2: Rerailway, B= bus, A= air transportation, T= time, C= trip cost, D= distance(km), ij= zone(i) and zone(j).

Applied data and analyses to formulate the these models appear in Appendix-3.3.4 (15)~(17). The sources of data were the Bus Terminal, Currency-Tariff Chief Committee of Railway Department and Kazakhstan Airlines (KAZ-AIR). Estimated trip times and trip costs by OD pair are shown in Appendix-3.3.4 (18).

#### [3.1] Formulation of MD Model

Modal shares are estimated by application of the MD Model which has been developed for transportation planning. Formulation of the MD Model means searching for and determining the parameters of the simultaneous probabilistic normal distribution, which is the most essential part of the Model.

#### a. Principal concept of MD model

The concept of the MD model is based on the consumers behavioral theory in a free economy.

The size of the traffic demand and share of each mode between zone (i) and zone (j) is the socioeconomical behavior occurring as a result of consumers' choice of the transportation modes from those which are available at the origin and destination, and where each consumer's modal choice is presumed to follow the following two principles:

- Each consumer makes a trip when the utility of the trip is greater than the "sacrificed volume" or "total trip cost" which has to be paid for the trip.
- The higher the consumer's value of time saved is then the faster (but more expensive) the mode selected.

Now, if the simultaneous probabilistic distribution for the utility of travel and the appraisal of value of time saved for all of the relevant transportation consumers is clear, then, by combining the sacrificed volume curve with this distribution, the realizable demand ratio for each mode is easily calculated. The total possible demand is 1.0. The share of each mode is also easily calculated from the above demand ratios.

#### b. Simultaneous probabilistic distribution

The simultaneous probabilistic distribution consists of: independent distribution for the utility of travel; and the appraisal of time saved value. It is a product of those two distributions, which usually forms the a shape of symmetric mountain, as shown in Fig 3.3.4.1.

Both of these distributions are presumed to follow logarithmic normal distributions which are indicated by the following parameters:

- Utility of travel: Mean-----μ loge(u)
- Std. Deviation -----σ loge(u)
- Saving time value: Mean------
  place(x)
- Std. Deviation ----  $\sigma \log c(x)$

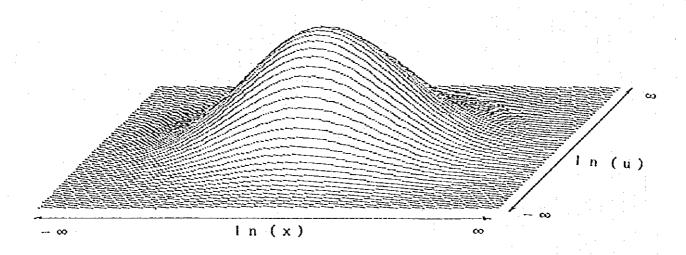


Fig 3.3.4.1 Simultaneous Probabilistic Distribution

#### Note

u and x are probabilistic variables where X=1/V; V means appraisal value of saving time of consumers; u means utility of the travel for consumers.

$$D_{ij} = \int_{-\infty}^{\infty} g(x) \int_{-\infty}^{\infty} f(u) du dx = 1.0$$

where, g(x): Distribution function of (x). f(u): Distribution function of (u)

The normal distribution function (x) is indicated by the following formula:

$$g(x) = \frac{1}{\sqrt{2\pi}\sigma} \exp(\frac{(x-\mu)^2}{2\sigma^2})$$

#### c. Realizable demand ratio and share by mode

Realizable demand ratio by mode is calculated by input data of modal trip time and trip cost based on the foregoing simultaneous distribution as shown in Fig. 3.3.4.2 and Fig. 3.3.4.3.

In the Fig. 3.3.4.2, D1, D2, D3 mean respectively the realizable demand ratio of mode 1, 2 and 3 which are calculated by the following formula

$$RD_{mij} = \int_{\log(x_{n+1})}^{\log(x_{n+1})} \int_{\log(Smij)}^{\infty} f(u) du dx$$

In the above formula,  $X_{m m \cdot l ij}$  means respectively the boundary or substitutional value of (x) where the value (S) of mode (m) equals that of mode  $(m \cdot l)$  between zone i and zone j.

For example, the substitutional value for S1 and S2 which gives S1 equals S2 is calculated as follows:

$$X_{1-2} = (t_2 - t_1)/(c_1 - c_2)$$
 or  $V_{1-2} = (c_1 - c_2)/(t_2 - t_1)$ 

S1, S2 and S3 indicate respectively "sacrificed volume" curve for mode 1,2 and 3.

The value of sacrificed volume is indicated in terms of time as shown in following formula.

$$ln(S_{mij}) = ln(T_{mij} + Xc_{mij})$$

Here,  $S_{mij}$  means sacrificed volume of mode (m) for zone i-j.  $T_{mij}$  and  $C_{mij}$  are respectively trip time and trip cost (fare and charge) of mode (m) for zone i-j.

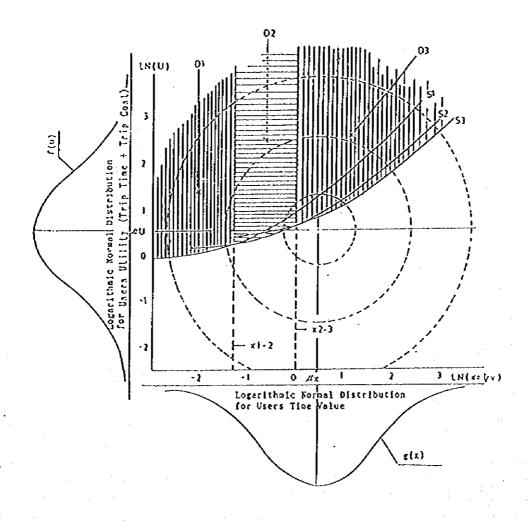


Fig. 3.3.4.2 An illustration of Realizable Demand Ratio by Mode

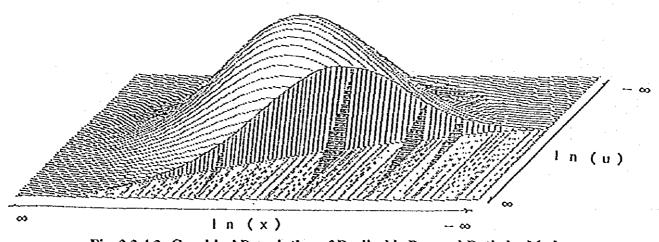


Fig. 3.3.4.3 Graphical Description of Realizable Demand Ratio by Mode

It should be noted that the share of each mode  $(SH_m)$  is indicated by the following equation:

 $H_m = D_m/\Sigma D_m$ 

For example, share of mode (1) is indicated as follows:

 $SH_1 = D_1/(D_1+D_2+D_3)$ 

Fig 3.3.4.2 shows a situation of modal demand estimation which is drawn by computer graphics.

Details of the MD Model is described in Appendix-3.3.4 (19) and the step-by-step procedure of the Model is shown in Appendix-3.3.4 (20).

#### d. Parameters of Simultaneous Normal Distribution and Time Values

The parameters of simultaneous normal distribution are automatically obtained by iterative calculations of "calibration" using data of modal shares and trip times and trip costs of OD pairs in the base year (1995) as already mentioned. The details of the methodology and process to obtain a combination of four parameters of the normal distribution are mentioned in Appendix-3.3.4 (21), 3.3.4 (22). Obtained parameters for 1995 are shown in Table 3.3.4.5, together with assumed time values by case for target years.

Details of assumptions for time values for target years are shown in Appendix-3.3.4 (23).

Table 3.3.4.5 Parameters of Simultaneous Normal Distribution and Average Time Values by Case for Target Years

Year		1995	2000	2005	2010
μlog(1/V)	Low Case	1.20	3.13	1.01	0.84
	Medium Case	1,20	1.10	0.94	0.73
	High Case	1.20	1.07	0.86	0.60
olog(1/V)	(Constant)	3.62	3.62	3.62	3.62
µlog(U)	(Constant)	2,42	2.42	2.42	2,42
olog(U)	(Constant)	3.42	3.42	3.42	3.42
Time Value	Low Case	0.30	0.32	0.36	0.43
	Medium Case	0.30	0.33	0.39	0.48
	High Case	0.30	0.34	0.42	0.55

#### [3.2] Reproduction of Original Situation

The MD Model originally formulated could not practically be applied by itself, mainly for following two reasons:

- 1. Applied data for the model formulation include considerable errors. Besides the model has been formulated as an average for many different OD pairs, meaning that any peculiar factors for each OD pair were not taken into account.
- II. In MD Model, the explanatory variables are limited to only the two factors of standardized trip time and trip cost among representative cities, which may not always be theoretically representative of the respective zones.

To minimize the deviation of the estimated values of the model from the actual or observed values, a "recreation of the original situation" is required. This involves adjusting the original variables of trip time and trip cost of each mode for each OD pair so as that the each deviation reduced to an acceptable minimum. A rough procedure of this work is shown in Fig 3.3.4.4.

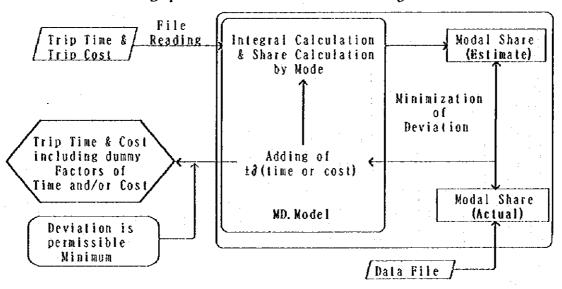


Fig 3.3.4.4 Reproduction of Original Situation

Total number of passengers, actual shares, estimated shares and deviations thereof by mode and by OD pair are shown in Appendix-3.3.4 (24).

#### [4] Forecast of Total Passenger Traffic Demand by Case for Target Years

Forecast total passenger traffic demands for each O D pair were made for each case and for each target year by applying the following formula which is formulated by regression analysis (See Appendix-3.3.4 (12)).

 $TFntij = TOij \times (GIDXtni \times GIDXtnj)^{\varepsilon}$ 

where,  $TF_{ni}$ : Total traffic demand between zone (i) and zone (j) in case (n) for the year (t) (thousand passengers)

 $TO_{ij}$ : Total traffic demand between zone (i) and zone (j) in base year (1995), (thousands passengers)

GIDX<sub>tral</sub>, GIDX<sub>traj</sub>: Respectively, index of GDP growth rate of zone (i) and zone (j) in case (n) for the year (t), (1995=100)

n: n means case of "Low" or "Medium" or "High".

ε: Elasticity coefficient of traffic demand to gross domestic products (GDP) ε= $0.5 \times 0.540121$  (See Appendix 3.3.4 (12))

[5] Forecast of Modal Shares by OD Pair and By Case for Target Years Applying MD Model

Forecasts of modal shares for each OD pair and for each target year were made by applying the MD Model where different parameters of time value by case and by target year are applied (See beforementioned Table 3.3.4.5)).

[6] Forecast of Air Passenger Traffic Demand By Case for Target Years

Forecasts of air passenger traffic demand by OD pair and by case for target years were easily derived from the outputs steps [4] and [5], as shown in following formula

 $AT_{ntij} = TF_{ntij} ASHR_{ntij}$ 

where,  $AT_{nij}$ : Number of air passengers between zone (i) and zone (j) in case (n) for the year (t).

ASHR<sub>nij</sub>: Share of air transportation between zone (i) and zone (j) in case (n) for the year (t).

The results of air passenger traffic demand forecast are described later together with the forecast results of international air passenger traffic demand.

(2) Procedure of Non-Competitive Air Passenger Traffic Demand Forecast

Regarding non-competitive air passenger traffic demand, the forecasts were made by applying "elasticity" models which were formulated by regression analyses of the relationship between the international air passengers and GDP's of many different countries (See Appendix-3.3.4 (25). Applied types of models and elasticity coefficients by case are shown in the following.

$$ITF_{ntij} = ITO_{ij} \times (GIDX_{tni} \times GIDX_{tnj})^{\varepsilon_{\bullet}}$$

where,  $ITF_{ntij}$ : Number of international air passengers between zone (i) and zone (j) in case (n) for the year (t).

 $\varepsilon_a$ : Applied elasticity coefficient of traffic demand to GDP in case (n); values of "  $\varepsilon_a$  " are as follows:

 Low Case:
 0.75

 Medium Case:
 1.00

 High Case:
 1.25

#### (3) Another Methodological Feature

Methodologically, this air traffic demand forecast study is framed on a "current-situation-basis" and a "growth-rate-basis" where future air traffic demands of OD pairs having no air traffic demands in the base year will be zero for the future target years. To avoid these defects, this study has designed a device so that the possible air traffic demands may be forecast even for the such OD pairs. The device is such that appropriate shares can be forecast depending on different transport conditions (trip time and trip cost) of respective OD pair application of the MD Model.

## - Appendix-3.3.4 (2) Origin/Destination Table for Air Passengers carried by Kaz Air for 1995

Reprint			Air for	1995				•					
Company   Comp		·	r=========	10 Va = 1	A 10 1111 15	V V .	Kustan	Aturau	E. Kaz.	E.Kaz.	S.Kaz.	Zhambu	Aknola
	Region	1 Sitbit	PIMBLY	W.Kaz.	AKTYUU	Yaraka	Kustan	Aturau	Ust-Ka	Zaysar	Shinke	Zhambu	Aknola
			HIMOTA	981	9287	29913	7225	19053	7730	720	40377	9207	21087
STATE   STAT				361					15810				
Continue			10655	62		988		3					379
Substitute   Sub					855			896	1943		3598		ļ
Registrate								99	380			303	L
Second   S			2131	1188	59	1129	123						
SOUTH Part   Strict	Rtyrau		0333				438			1802	2540		199
South Ret   Shiekent   4221   137   3352   193   193   112			3,55,5	10000	• • • • • • • • • • • • • • • • • • • •								i
State			42291		137	3553		953	2172				515
September   Sept							398						
Specific					254			423	161		417		
Semipale   Semipalal   1927   1927   1928   171   171			.517447			h							
Ricking   Ricking   S755			19527			38							
Region	Sepibaia					· · · · · ·							l
PANIGOST   PANIGOST   28318   349	Valobatas		5753										<u>-</u>
North Next, Petropyte    5262   12   238   97	Paylodes				349				174		1573	24	
			-52.442.			ì					,		<b></b>
Explored   Explored   Sept			5262					97			2281		
Campaign						73	230						
Part						[							
Turnal   Arksulyk   6282   147			10725			[		246				203	54
Tamping										<u></u>			ļ
Total				3869						النيسين			
Region					13195	36878	9948	30241	44462	2522	55147	9762	55818
Stend Semips   Aktogs   School Paylod   Exibat Petrop   Event   Exibat			<u></u>										T
Stend Semips   Aktogs   School Paylod   Exibat Petrop   Event   Exibat	Region	Airort	Aknols	Semipe	Semipe	Kokche	Paylod	Poviod	N.Kez.	K.Orda	Chezke		
	1	1	Stenno	Semipa	Aktoge	Kokche	Paviod	Ekibas	Petrop	K, Orda	Raikha		
	Almatu	Rinstu			<u> </u>	5426	27376	3174	5182	7385	<b></b>	12649	6095
Retrosport   Ret									L		ļ <u></u>	!	
Serianda   Karakanda   Serianda	Aktyubins				L	1	326	<u>.                                    </u>	ļ		18		134
Rivers   R			1	55		L		<u> </u>	L		<u> </u>	<b>!</b>	
Region			1		ſ	l				289			
Sept   Nat		Atyrau				189		İ	142			186	[
South Kaz   Shinkent   126   1740   2520   11   1316		Ust-Kenen			) }	.] . <i></i>	235.	<b> </b>	<b>.</b>			<u> </u>	
South Naz   Shiekent   126   1740;   2520			1	1		<u> </u>		<u> </u>					
Zhenbul   Zhen	South Kaz					126			2528		ļ		1316
Akeola							29	ļ				141	
Stennogors			40	J		1	<u> </u>		ļ		<b></b>		
Spaipals   Spaipals				1				<u>i</u>	!			158	
Note	Senicala.				1		<u> </u>	1	<b>]</b>	48		ļ	
Region   Ricprt   Rangis   Domest   Russic   Uzbeki   Isjiki   Ukreir   Rzerbe   Turkes   Utres   Ut						L					<b>]</b>		ļ
Pevioder	Kokchetau						<u></u>	·			ļ. <b>.</b>	38	ļ
North Kez.   Petropavic   79   709   221				J	1	<u>.]</u>	<u> </u>	İ	ļ	524.	<b></b> .		
Region					!	·	<u> </u>	<u>:</u>	<b>.</b>		ļ	ŧ	
Region	North Kez	. Petropavio	0		<u> </u>	L		<u> </u>	ļ		[		<b> </b>
Zhezkargo				79	1	<b></b>	769	<u> </u>			<b></b>		j
Turge   Arkeye   189   287   50   223   180				J	<b>!</b>			<b></b> .			} <u>.</u>	1.48	
Nemp  State   Oktob			189	I	287	50		<u></u>	ļ	223	180	<u> </u>	<del> </del>
No.   No.	Turgai			[	1	<u> </u>		1		ļ		<u> </u>	<b> </b>
Region		Aktau	1	1 1	<u>:</u>		ļ		<u> </u>		435		70.45
Region		Total	553	17820	287	9778	38415	3174	7844	8439	1 196	33014	[545]
Almely							,- <u>-</u>		T		T V	1 611	1 00000
Almely	Region	Airprt	Mangi:				Tajik	Ukreid	RZELPE	Turkme	Turke)	i ntpeta	Urand
Hest   Kez   Urelsk   A211   19238     19238     19238		1	Aktau	Total	total	total	<u> </u>	1	<u>Baku</u>	ļ	ļ	<u>!</u>	lotal
Hest Kez.   Urelsk   A211   1928   14509   5149   96	Almaly	Almoty			171895	7615	658	1588	ļ	<del> </del>	<b> </b>	143	
Reference					<b>!</b>	<b></b>	ļ		<del> </del>		<del> </del>	<del> </del>	
Kerekende   37791   35470   15470   14327	Aktyubins							1	86		<b></b>	····	
Ruytanay   Ruytanay		Karakanda					ļ	ļ	<del> </del>	Į	<del> </del>	<del> </del>	
Test Kez   Ust-Kemenc   17256   49508   20980							ļ	<del> </del>	1	<b> </b>	<del> </del> -	<del> </del>	
Court   Cour	Atyrau						ļ	5	<del> </del>	7010	270	1	
	East Kez.	Uət-Kadon	d 17258				<b>}</b>			(A)'g.	} <u>\$</u> 18	<del> </del>	
South Kaz, Shimkoht   1051   31013   12009   33485   33485   33485   38771	))	Zaysan				<del></del>	ł		ł		<b> </b>		
Chambul   Cham							ļ	<del> </del>	<del> </del>		·	<b> </b>	
Stennogors   129   214   282   625			13				<b> </b> -	<del> </del>	<b> </b>	<del> </del>	<del> </del>	<del> </del>	
Stennogors   129   214   25467   254			.				{······		<b>∤····</b>	<b>{·····</b>	}	202	
## Rktogei   9988   198	. 11						1	<u> </u>	·	<del> </del>	<del> </del>	- 505	
Rktogal   Solution   Rktogal   Solution   Rktogal   Rokchetau			414	1 78618	15848		4		······	{······	}	<b>∤·····</b>	1.5%3%1.
Rokchotau   Rokchotau   Sozu   Stign	n n	Aktogai	1	02.2	1		·	<b> </b>	<del> </del>	<del> </del>	}	1	9988
Religious   Reli			3824				<del> </del>	·	<del> </del>	i	<del>                                     </del>	l	
						451155	{······		·}·····	·	<b>}</b> ·····	†·····	
North Kaz. Petropsvid   1936   1825     11198						<del> </del>	·	1	1	l	<del> </del>	<del> </del>	
No.						-	<del> </del>	<b>\</b>	<del> </del>	<del> </del>	<del> </del>	· · · · · · · · · · · · · · · · · · ·	
N   Zhezkezger   12201   4800   17001   1700	Kzyl-Ocde	Kzyl-Orde	<b></b>			-1	<del> </del>	- <del> </del>	·	l	<del> </del>	· · · · · · · · · · · · · · · · · · ·	
Turge   Arkelyk   1715   127   7842     128			.			+	·····		·}	·····	· · · · · · · · · · · · · · · · · · ·	<b>†</b>	
Turge: Brestyk 39025 16117 55142 55142 55142 55142 55142 55142 55346 616189 342528 11195 658 1513 96 7918 378 425 980988			[]				1	1	·	<del> </del>	<del> </del>	1	
Total Total 55346 616189 342528 11195 658 1513 96 7918 378 425 980900			1				·	·	<del> </del>	·}	1	<del> </del>	
1 10(8) 10(8) 30340 010100 022424 1			1	33052	10111	11106	650	1513	90	7912	37 R	425	
Dela source: Kazakhstan Birline	Liotal	1 Totel	1 55346	1010189	124528	1 11192	1 008	1 1313			· · · · · · ·		1
	Dala sourc	e: Kazakhst	an Birl	i Uo									

# Appendix-3.3.4 (3) Number of Air Passengers Departed from each Airport and each Region in Kazakhstan

											analus!	
		Kaz-Ri	r Statis	tics		tics of	Committ	66 01	[81151]	C3 8110	er-CIS	
					Tot	91	Interr	ational				
Region	Rirert	1995	yr Total				I	·		arture		nait
		Domest.	Int'nl	Grand	1994	1995	1994	1995	1994	1995	1994	1995
Almaly	Almaty	246146	181819	427965	986138			516364	258491	171872	2891	2934
West Kez.	Uralsk	19239	_	19230	36987	29287	576	95	4157	3497	87 82	114 73
Aktyubinsk	Aktyubinsk	14509	5245	19754	44585	37672	1302	1818	8767	7356		77
Karakanda	Karakanda	37791	35478	73261	120047	115036	16655	30466	42375	38444	154 29	23
Kustanay	Kustenay	10396	3931	14327	55896	51194			28884	28932	<u>sa</u>	23
Atyreu	Atyrau	12730	11521	24251	161218	84538		6649	29791	15446		41
East Kaz.	Ust-Kameno	49500	29276	78776	119642	7,0977	167	303	38522	20737	21.4.	
"	Zaysan	-						l		22748		
South Kaz.	Shinkent	57015	15150	72165	136884	90134	627	1989	37699	14896		
Zhembul -	Zhembul	9386	24899	33485	46941	26496			22617		56	
Aknola	Aknola	55888	7872	30771	74654	70908	24762	35005	6183	8454	36.	
p	Stennogors	129	496	625				]		75.40	29	17
Semipala.	Semipalati	19619	5848	25467	57196	31621		[	7958	75.42	······ ~ 3.	
J)	Aktogsi			<u> </u>				L				2
Kokcheteu	Kokchetau	9713	195	9988	36808	26182	2863	3182	8356	4345	39	61
Pavlodar	Pavlodar	39982	28920	51902	92569	71613.	269	1320.	32431	.27941		
p .	Ekibastuz			<del>-</del> -								
North Kaz.	Petropavio		-	7648	18238	8288	355	400	216	121 542	I <u>-</u>	
Kzyi-Orda	Xzyl-Ords	9365	1825	11190	52800	41695	1284	815	10379	2526	<del></del>	59
Zhazkazgan	Balkhash	198	~	198	21267	11592	<b></b>		3331	19685	<del>-</del>	
n .	Zhezkezgar		4800	17601	55971	44323		2182	14335	428	<u>-</u> -	
Turgai	Arkalyk	7715	127	7842	19876	8943			1789		270	69
Mangietau	Aktau	39825	16117	55142	130992	129563	824	3345	46516	42675	3841	3434
Total	Total	616189	364711	988888	2127229	1805930	265488	363925	P82831	429179	3841	

Appendix-3,1,3(2)

		Stati	stics o	Commi	ttee of	Statis	tics an	d Analy	sis
			er-Regi			Within	Region	Oth	619
Region	Airprt	Dep	erture	ĭra	nsit				
		1994	1995	1994	1995	1994	1995	1994	1995
Almaty	Almaty	421691	369298	13599	36760	_		1637	1588
West Kez.	Uralsk	21324	14822	1847	1959	108	7_	8810	8793
Aktyubinsk	Aktyubinsk	29857	27839	274	364	-		4323	538
Karakenda	Karakanda	60348	42163	515	723	-		<del>-</del> -	553
Kustenay	Kustanay	26524	22895	113	88			346	56
Atyrau	Atyrav	47294	48975	-				24133	21468
East Kaz.	Ust-Kameno	62853	40809	1897	225	23938	7725	851	1137.
n	Zaysan	_	-		÷	- 1	-		<del></del> _
South Kaz.	Shimkent	97750	65495	4		-	-		
Zhembul	Zhambul	23612	11218	35	27	469	353	207	
Aknola	Aknole	40808	27418	525	30	5339		10	
<i>y</i>	Stennogors	-	-	-	_	<del>-</del>	-		
Semipala.	Semipalati	38497	19858	321	1,55	10391	4049		
Ŋ	Aktogai	-		_		-	-		
Kokchetau	Kokchetau	24733	18653	<b>5</b> 5				<del></del>	
Pavlodar	Pavlodar	60525	48611	207	262			1798	1418
n	Ekibastuz		-	-		·			
North Kez.	Petropavio	17487	7416	6	2			207	349
Kzyl-Orda	Xzyl-Orda	20170	11785			-		21847	28553
Zhezkezgan	Salkhash.	13461	\$975	85	97	4386	2974	· · · · · · · · · · · · · · · · · · ·	
ji	Zhezkazgar		27385		-	2198	1384	1281	2687
Turgai	Arkelyk	16828	8357				<del>-</del>	539	158
Mangiatau	Aktau	71974	78817	269	498			11139	4959
Total	Total	1E+06	888899	18952	41198	43788	16492	76328	71611

Source: Committee of Statistics and Analysis and Kazakhatan Airline

Appendix-3.3.4 (4) Rough Estimated Air Passenger Origin/Destination Flow (provided that No. of Arrival Passenger equals to that of Departure in International Passenger Flow)

Region Airprt	Alasty			Karaka					\$.Kaza	
	Alasty					Atyrau	Ust-Ka	Zayası	Shinke	
Almaty : Almaty	0	1621	15349	47950	11941	31489		1190		15216
West Kaz.   Urelsk	0	9	11		0	8	18719		0	0
Aktyubinsk Aktyubinsk	22839	121	9	1878	0	6	8	0	325	0
Karakanda : Karakanda	34740		972	8	8	916	2299	0	3989	25
Kustanay Kustanay	17369	8	8		8	211	812		- 8	647
Atyrau Atyrau		5891	255	4871	531	9	0	В	4215	<u> </u>
East Kaz. : Ust-Kamanogor:	8873	13588	9	1831	332	Į	6689	1560	5199	8
n Zaysan		0	8	0	. 8	9	. 0	8	0	8
South Kaz. Shimkent	48514	0	157	4076	. 6	1093	2492	9	0	8
Zhambul : Zhambul	10487		8	6	472	8	0	8	0	420
Akmola Akmola	25854	[0]	304	Q.	0	507	193		580	
" Stennogorsk	8	9	8	0	8	8	8		3	8
Semipala. 1 Semipalatink	19852		e	3.0	8	9	8	8.	0	В
" Aktogai	: 8	9		0	0	Ð	0	8	8	8
Kokchetau Kokchetau	11048	0	8	8		8	0	ક	188	8
Paylodar : Paylodar	38148	а	478	8	8	8	234	8	2117.	35
" Ekibastuz	0	8	8	8	8		9	9	0	8
North Kaz. Petropaylovsk	5334	0	. 0	8	8	98	. 0	0	2312	8
Kzyl-Orda : Kzyl-Orda	32152	9	8	291	918	a	8	8	0	8
Zhezkazgan Balkhash	8	0	8	8	8	8	9	0	0	8
" Zhezkazgan	24178	9	92	8	e	555	9	e	7	458
Turgsi Arkalyk	6839	Ø	162	В	8	9	9	. 0	1586	0
Mangistau Aklau	397	8094	4303	8	3538	17909	35338		3851	8
Total Comestic	303816	28445	22076	60934	17464	52785	79462		87941	16885
Russis	258471	1693	8465	46276	18497	19966	6848	8	18212	4762
East Asia	28429	398	302	2525	1883	1085	1611		728	1128
Contral Asia	20255	205	156	1301	2417	556	838	8	371	577
China & Mongolia	30468	598	454	3792	2829	1600	2419	8	1082	1682
far East Asia	5513	108	82	686	512	298	438		196	384
Western Asia	51987	1019	870	6468	4819	2726	4121	0	1843	2866
Other Asia	1271	84	64	532	397	224	339	e	152	236
West Europe	53802	1040	789	6598	4928	2784	4208	8	1881	2926
North America	6505	128	97	818	604	342	516	8	231	359
Australia & other America		58	15	127	95	54	81	0	36	56
Africa	121	5	5	:15	11	6	10	Ö	4	7
Others	38		1	5		2	3	<u>0</u>		2
Total (Intern') + CIS)	452882	5296	9296	69125	28987	29616			24729	14898
		7.530	3630	<b>43163</b> 1		<b>63010</b>			E-41C-7	34000
- S Grand   Total (Doma Alete')	1755010	22741	21271					2750	112670	31783
Grand Total (Dome. + Intn')	755818	33741	31371	130058	46450	82481		2750	112670	31783
	·			138858	46450	82491	100886			
Region Airprt	Akriole	Akmola	Semips	138858 Semipe	46450 Kokche	82481 Pavlod	19886 Pavlod	N.Kaza	Kzyl-d	Zhezko
Region   Airprt	Akmole Akmole	Akmola Stanno	Semips Semips	138858 Semipe Aktoge	46450 Kokche Kokche	Paylod Paylod	198866 Pavlod Ekibas	N.Kaza Petrop	Kzyl-Q Kzyl-Q	Zhezke Balkhe
Region Airprt Almaty Almaty	Akmole Akmole 34851	Akmola Stanno	Semipe Semipe 29228	138858 Semipe Aktoge	46450 Kokche Kokche 8968	82481 Pavlod Pavlod 45244	108886 Pavlod Ekibas 5246	N.Kaza Patrop 8564	Kzyl-0 Kzyl-0 12285	Zhezke Balkhe
Region Airprt Rimsty Almaty West Kaz. Uraisk	Akmole Akmole 34851	Akmola Stanno 8	Semipe Semipe 29228	138858 Semips Aktogs 0	46450 Kokche Kokche 8968	82481 Paylod Paylod 45244 8	108886 Pavlod Ekibas 5246 8	N.Kaza Petrop 8564	Kzyl-0 Kzyl-0 12285 8	Zhezke Balkhe B
Region Airprt  Almsty Almaly  West Kaz. Uraisk  Aktyubinsk Aktyubinsk	Akmole Akmole 34851 0 741	Akmola Stanno 8 8	Semipe Semipe 29228 0	Semips Aktogs 0	46450 Kokche Kokche 8968 0	Paylod Paylod 45244 8: 638	Pavlod Ekibas 5246 8	N. Kaza Petrop 8564 8	Kzyl-0 Kzyl-0 12285 0	Zhezke Balkhe B
Region Airprt  Almaty Almaty  West Kaz. Uraisk  Aktyubinsk Aktyubinsk  Karakanda Karakanda	Akmole Akmole 34851 0 741	Akmola Stanno 8 8 0	Semips Semips 29228 0	Semips Aktogs 0 0	46450 Kokche Kokche 8968 0	Paylod Paylod 45244 8 638	Pavlod Ekibas 5246 8 8	N. Kaza Petrop 8564 8	Kzyl-0 Kzyl-0 12285 0 0 57	Zhezke Balkhe B 31
Region Airprt  Almaty Almaty  West Kaz. Uralsk  Aktyubinsk Aktyubinsk  Karakanda Kerakanda  Kustanay Kustanay	Akmole Akmole 34851 0 741	Akmola Stanno 8 8 0 0	Semips Semips 29228 0 63	Semipe Aktoge 0 0	46450 Kokche Kokche 8968 0	82491 Pavlod Pavlod 45244 8 638	Pavlod Ekibas 5246 8 9	N. Keze Petrop 8564 0 0	Kzyl-Q Kzyl-Q 12285 0 0 57 446	Zhezke Balkhe B 31 0
Region Airprt  Aimaty Aimaty West Kaz. Uraisk Aktyubinsk Aktyubinsk Karakanda Karakanda Kustanay Kustanay Atyrau Atyrau	Akaole Akaole 34851 0 741 0 2778	Akmola Stanno 8 8 9 9	Semipe Semipe 29228 9 63	Semipe Aktogs 0 0 0 0	46450 Kokche Kokche 8968 0 0 0	Pavlod Pavlod 45244 8 638 8	Pavlod Ekibas 5246 8 9	N. Keze Petrop 8564 8 9 9 8	Kzyl-C Kzyl-C 12285 0 0 57 446	Zhezke Balkhe B 31 B 0
Region Airprt  Aimaty Aimaty West Kaz. Uraisk Aktyubinsk Aktyubinsk Karakanda Kerakanda Kustanay Kustanay Atyrau Atyrau Eest Kaz. Ust-Kamanogor	Akaole Akaole 34851 0 741 0 2778	Akmola Stenno 9 8 9 0 8	Semipe Semipe 29228 0 63 0	\$emips Aktogs 0 0 0 0 0 0	46450 Kokche Kokche 8968 0 0 0 0	82491 Paylod Paylod 45244 8 638 0 0 0	Pavlod Ekibas 5246 8 8 8	N. Kaza Petrop 8564 0 0 0 8 8	Kzyl-Q Kzyl-Q 12285 0 57 446	Zhezke Balkhe B 31 9 8 8
Region Airprt  Almaty Almaty West Kaz. Uraisk Aktyubinsk Aktyubinsk Karakanda i Karakanda Kustanay Kustanay Atyrau Atyrau East Kaz. Ust-Kamenogors	Akmole Akmole 34851 0 741 0 2778 172	Akmola Stenno 3 3 9 0 8 9	Semipe Semipe 29228 9 63 63 9	Semipe Aktoge O O O O O O O	46450 Kokche Kokche 8968 0 0 0 470	82491 Paylod Paylod 45244 B 638 8 8 8 283	Pavlod Ekibas 5246 8 8 8	N. Keze Petrop 8564 8 9 8 8 613 8	Kzyl-Q Kzyl-Q 12285 0 57 446 0	Zhezke 8alkhe 8 31 9 8 8
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Region Airprt  Aimaty Almaty West Kaz. Uraisk Aktyubinak Aktyubinak Karakande Kerakanda Kustanay Kustanay Atyrau Alyrau East Kaz. Ust-Xamenogor: " Zaysan South Kaz Shimkent Zhambul Zhambul Akmola Akmola " Stennogorak	Akmole Akmole 34851 0 741 0 2778 172 0 591 0	Akmole Stenno 3 9 9 9 9 9 9 9	Semipe Semipe 29228 0 63 0 9 9	\$emipe Aktoge 0 0 0 0 0 0 0 0 0 0 0 0 0	46450 Kokche Kokche 8968 0 0 470 9 145 0	82491 Paylod 45244 638 8 283 8 1996 35	199386 Pavlod Ekibas 5246 8 9 9 8 9 8	N. Keze Petrop 8564 2 2 8 613 	Kzyl-Q Kzyl-Q 12285 0 57 446 0 0 0	Zhezke 6alkhe 8 9 31 8 0 8 8 8 8 8
Region Airprt  Almaty Almaty West Kaz. Uraisk Aktyubinsk Aktyubinsk Karakande Kerakanda Kustanay Kustanay Atyrau Atyrau East Kaz. Ust-Xamenogors  " Zaysan South Kaz Shimkent Zhambul Zhambul Akmola Akmola " Stennogorsk Semipala. Semipalatink	Akmole Akmole 34851 0 741 0 2778 1772 0 591 0	Akmole Stenno 3 9 0 0 0 0 0 0 4 4 8	Semipe Semipe 29228 0 63 0 0 0 0 0 0	\$ emipe Aktoge 0 0 0 0 0 0 0 0 0 0 0 0	46450 Kokche Kokche 8968 0 0 470 9 145 0 9 9	82491 Paylod 45244 6 638 8 8 9 283 8 1996 35 6	198386 Pavlod Ekibas 5246 8 8 8 8 8 8 8 8 8 8 8 8	N. Keze Petrop 8564 2 2 8 613 	Kzyl-0 Kzyl-0 12285 0 57 446 0 0 0 0	Zhezke 6alkhe 9 31 8 9 8 8 8 8 8 8
Region Airprt  Almaty Almaty West Kaz. Uraisk Aktyubinsk Aktyubinsk Karakanda Kerakanda Kustanay Kustanay Atyrau Atyrau East Kaz. Ust-Kamenogors " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Atmola " Stennogorsk Semipala. Semipalatink " Aktogai	Akmole Akmole 34851 0 741 0 2773 1772 0 591 0	Akmola Stanno 3 3 9 0 0 0 0 9 9 46 3	Semipe Semipe 29228 0 63 0 9 9 9 9	Semipe Aktogs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46450 Kokche Kokche 8968 0 0 470 0 145 0 0	82491 Pavlod Pavlod 45244 45244 8 638 8 9 283 9 1996 35 8	Pavlod	N. Keze Petrop 8564 0 0 0 613 0 2891 2891 0 0	Kzyl-Q Kzyl-Q 12285 0 	Zhezke 6alkhe 9 31 9 8 8 8 8 8 8
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Region Airprt  Almaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karekande Ksrekanda Kustanay Kustanay Atyrau Atyrau Eest Kaz. Ust-Kamenogor: " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Aknola " Stennogorsk Semipalatink " Aktogai Kokchetau Kokchetau Peylodar Peyloder " Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Domestic	Aknole Aknole 34851 0 741 0 2778 172 0 591 0 0 0 0 0	Akmole Stenno 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Aktogs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46450  Kokche Kokche 8968  0 0 0 470 0 145 0 0 0 145 0 0 0 113 0 8588	82491 Pavlod Pavlod 45244 8 638 9 283 6 1996 35 8 0 2831 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100366  Pavlo 6  k i bas  5246  8  8  8  8  8  8  8  8  8  8  8  8  8	N. Keze Petrop 8564 0 0 0 0 12891 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kzyl-O Kzyl-O 12285 0 0 57 446 0 0 0 0 0 0 0 0 0 0 0 0 0	2 hezke 8alkhs 9 31 9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
Region Airprt  Almaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakanda Keskanda Kustanay Kustanay Atyrau Atyrau East Kaz. Ust-Kamenogors  Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola  "Stennogorsk Semipala. Senipalatink "Aktogsi Kokchetau Kokchetau Paylodar Paylodar  "Ekibastuz North Kaz. Petropaylovsk Kzyi-Orda Kzyi-Orda Zhezkazgan Tyrgai Arkalyk Hangistau Aktau Total Domestic Russia	Akmole Akmole 34851 0 741 0 2778 172 0 591 0 0 0 0 0 0 0 0 0 12278 0 0 0 0 0 0 0 0 0 0 172 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Akmola Stenno 9 9 9 9 9 9 46 46 9 9 46 9 46 9 9 46 9 9	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Aktogs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46450  Kokche 8968 0 0 0 470 0 145 0 0 0 145 0 0 113 0 8588 18203	82491 Pavlod Pavlod 45244 8 638 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	198866 Pavlod	N. Keze Petrop 8564 0 0 0 613  0 2891 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kzyl-Q Kzyl-Q 12285 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Zhezke 6alkhe 8 0 9 31 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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Region Airprt  Almaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakanda Karakanda Kustanay Kustanay Atyrau Atyrau Esat Kaz. Ust-Kamenogors  " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola " Stennogorsk Semipala. Semipalatink " Aktogai Kokchetau Kokchetau Paylodar Paylodar. " Aktogai Kokchetau Kokchetau Paylodar Peylodar. " Estbastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Balkhash " Zhozkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia Esst Asia Central Asia	Akmole, Akmole	Akmole \$tenno 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Semipe 29228 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	130058 Semiph Aktogs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46450  Kokche Kokche 8968  0 0 0 470 0 145 0 0 0 145 0 0 145 0 0 145 0 0 0 145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82491 Pavlod Pavlod 45244  68 638 8 9 283 1996 35 8 6 6 8 6 8 9 7 8 8 8 9 8 8 9 8 8 9 8 8 9 8 8 8 8	100366 Pavlo 6	N. Keze Petrop 8564 9 9 9 9 613 8 9 2891 9 9 9 9 9 9 9 12868 174 41 21	Kzyl-Q Kzyl-Q 12285 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Zhezke 8alxhe 9 31 9 8 8 8 8 9 9 9 9 9 9 9 8481 406 9 8918 814 191
Region Airprt  Almaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karekande Ksrekanda Kustanay Kustanay Atyrau Atyrau Eest Kaz. Ust-Kamenogors " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola " Stennogorsk Semipala. Semipalatink " Aktogai Kokchetau Kokchetau Paylodar Peyloder " Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhazkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia Eest Asia Central Asia	Akmole, Akmole, 34851 9, 741 0, 0, 2778 1772 0, 591 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	Akmole Stenno 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	46450  Kokche 8968  0 0 0 470 0 145 0 0 0 145 0 0 145 0 0 0 145 0 0 0 145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82491 Pavlod Pavlod 45244  6 8 638  9 9 283  9 9 1996 35  0 0 2831  0 0 2831  0 0 2831  0 0 2831  0 0 2831  0 0 2831  0 0 2831  0 0 2831  0 0 2831	100366  Pavlo 6  E ki bas  5246  8  8  8  8  8  8  8  8  8  8  8  8  8	N. Keze Petrop 8564 9 0 8 0 613 0 2891 0 9 9 9 9 9 9 9 9 12868 174 41 21	Kzyl-Q Kzyl-Q 12285 8 9 9 9 9 9 9 9 9 9 9 9 9 9	2 hezke 8alkhs 9 31 9 8 8 8 9 9 9 8 8481 426 9 8918 814 191
Region Airprt  Almaty Aimaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakande Karakanda Kustanay Kustanay Atyrau Atyrau Eest Kaz. Ust-Xamanogor: "Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Aknola "Stennogorsk Semipala. Senipalatink "Aktogai Kokchatau Kokchatau Pevlodar Pevlodar "Ekibastuz North Kaz. Petropavlovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Danestic Russia Eest Asia Central Asia China & Hongolia Fer East Asia	Akmole Akmole 34851 0 741 0 2778 172 0 591 0 0 0 0 0 0 0 0 122 0 0 39255 19248 2675 1379 4018	Akmole Stenno 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$emipe	46450  Kokche Kokche 8968  0 0 0 470 0 145 0 0 0 145 0 0 113 0 8508 18203 2539 551 284 828 150	82491 Pavlod Pavlod 45244 8 638 8 9 283 6 1996 8 8 8 2831 8 8 9 6 6 6 8 7 8 8 8 8 8 8 8 1996 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	198866 Pavlo 6	N. Keze Petrop 8564 9 0 0 0 12891 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kzyl-O Kzyl-O Kzyl-O 12285 0 0 0 0 0 0 0 0 0 0 0 0 0	Zhezke 8alkhe 8 9 31 9 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
Region Airprt  Almaty Aimaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakanda Kustanay Atyrau Aiyrau Eest Kaz. Uust-Kamenogor: "Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Aimola "Stennogorsk Semipala. Senipalatink "Aktogsi Kokchetau Kokchetau Paylodar Paylodar "Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia Eest Asia Central Asia China & Hongolia For East Asia	Akmole Akmole 34851 0 741 0 0 2778 172 172 0 0 0 0 0 0 0 0 0 0 0 2778 172 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Akmola Stenno 3 9 9 9 9 9 48 9 8 8 8 426 8 8 474 8 9	Semipe Semipe 29228 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	130058  Semipe Aktope Open Control of Contro	46450  Kokche Kokche 8968  0 0 0 470 0 145 0 0 0 145 0 0 0 145 0 0 145 0 0 145 0 146	82491 Pavlod Pavlod 45244  0 638 0 8 8 1996 35 0 0 8 2831 0 0 2831 0 0 2831 0 0 2831 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100366  Pavlod	N. Keze Petrop 8564 0 0 0 0 0 13 0 2891 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 12068 174 41 21 11	Kzyl-Q Kzyl-Q 12285 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Zhezke 6alkhe 8 9 31 8 8 8 8 8 8 9 9 9 9 9 8 481 406 8 814 191 99 287 52 490
Region Airprt  Almaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakande Karakanda Kustanay Kustanay Atyrau Atyrau East Kaz. Ust-Kamenogors  " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola " Stennogorsk Semipala. Semipalatink " Aktogai Kokchetau Kokchetau Peylodar Peyloder " Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkezgan Balkhash " Zhezkezgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia East Asia Central Asia China & Mongolia Fer East Asia Urata	Akmole, Akmole	Akmole \$tenno	Semipe Semipe 29228 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	130058 Semipe Aktoose 00 00 00 00 00 00 00 00 00 00 00 00 00	46450  Kokche Kokche 8968  0 0 0 470 0 145 0 0 0 145 0 0 145 0 0 145 0 0 145 0	82491 Pavlod Pavlod 45244  6 638 6 8 1936 35 6 8 2831 6 6 2831 6 6 6 50947 21905 644 2516 968 1136	100366  Pavlo 6  E kiba 9  5246  8  8  8  8  8  8  8  8  8  8  8  8  8	N. Keze Petrop 8564 9 9 0 10 10 10 10 10 10 10 10 10 10 10 10 1	Kzyl-Q Kzyl-Q 12285 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Zhezke 8alkhe 9 31 9 8 8 8 9 9 9 9 9 8481 486 9 8918 814 191 99 287 52 490 48
Region Airprt  Almaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karekande Karekanda Kustanay Kustanay Atyrau Atyrau Esat Kaz. Ust-Kamenogors  " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Aknola " Stennogorsk Semipala. Semipalatink " Aktoga Kokchetau Kokchetau Paylodar Peyloder. " Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia Eest Asia Central Asia China & Mongolia For East Asia Utotal Other Asia Utotal Ustern Asia Utotal Ustern Asia Uther Asia	Akmole, Akmole, Akmole, 34851	8 kmo l e Stenno 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	30058 Semiph Aktogs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46450  Kokche 8968  0 0 0 470 0 145 0 0 145 0 0 0 145 0 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 0 145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82491 Pavlod Pavlod 45244  6 8 638 8 9 1996 35 8 6 8 9 1996 8 2831 8 6 8 9 6 8 1996 8 1996 1996 1996 1996	100366  Pavlo 6  E kibas  5246  8  8  8  8  8  8  8  8  8  8  8  8  8	N. Keze Petrope 8564 9 9 8 8 613 9 2891 9 9 9 9 9 9 9 9 9 9 9 9 9	Kzyl-O Kzyl-O Kzyl-O 12285 0 0 0 0 0 0 0 0 0 0 0 0 0	2 hezke 8 a l khy 8 a 9 a 9 a 9 a 9 a 9 a 9 a 9 a 9
Region Airprt  Almaty Aimaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakande Karakanda Kustanay Kustanay Atyrau Atyrau Eest Kaz. Ust-Xamanogor: "Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Aknola "Stennogorsk Semipala. Senipalatink "Aktogai Kokchatau Kokchatau Pevlodar Pevlodar "Ekibastuz North Kaz. Petropavlovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Danestic Russia Eest Asia Central Asia China & Hongolia Fer East Asia Uster Asia Uter Asia Uter Asia Uter Asia Uter Asia	Akmole Akmole 34851 0 741 0 2778 172 0 591 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Akmole Stenno 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	130058 Semipe Aktogs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46450  Kokche Kokche 8968  0 0 0 470 0 145 0 0 145 0 0 0 145 0 0 145 0 0 145 0 0 145 0 113 0 8508 18203 2539 551 284 628 150 1411 116 1177	82491 Pavlod Pavlod 45244 8 638 8 9 283 9 1996 9 8 2831 8 0 0 0 2831 8 0 0 0 0 1996 1996 1996 1996 1996 1996 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N. Keze Petrop 8564 0 0 0 0 12891 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kzy1-0 Kzy1-0 12285 8 0 57 446 0 0 0 0 0 0 0 0 0 0 0 0 0 13965 1376 324 167 486 88 828 846 104	2 hezke 8 a l khe 8 a l 9 a
Region Airprt  Aimaty Almaty West Kaz. Uraisk Rktyubinsk Aktyubinsk Karakanda Kesakanda Kustanay Kustanay Atyrau Alyrau Eest Kaz. Ust-Kamenogor: "Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola "Stennogorsk Semipala. Senipalatink "Aktogai Kokchetau Kokchetau Peylodar Peylodar "Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia Eest Asia China & Hongolia For East Asia Uestern Asia Ukest Europe North America Australia & Other America	Akmole Akmole 34851 0 741 0 2778 172 172 0 591 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Akmola Stenno 30 90 90 90 90 90 90 90 90 90 90 90 90 90	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	130058  Semipe Aktope Op Op Op Op Op Op Op Op Op Op Op Op Op	46450  Kokche Kokche 8968  0 0 0 470 0 145 0 0 0 145 0 0 0 145 0 0 145 0 145 0 113 0 8508 18203 2539 551 284 828 150 1411 116 1440 177 28	82491 Pavlod Pavlod 45244 8 638 9 9 283 6 1996 8 8 8 8 8 8 8 9 1996 8 8 8 1996 8 1996 8 115 1649 136 1684 207 32	100366  Pavlo 6 ki bas 5246  8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N. Keze Petrope 8564 0 0 613 	Kzyl-O Kzyl-O Kzyl-O 12285 0 0 0 0 0 0 0 0 0 0 0 0 0	Zhezke 8alkhe 8 8 8 8 8 8 8 8 8 9 8 9 8 9 8 9
Region Airprt  Rimaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakande Karekanda Kustanay Kustanay Atyrau Atyrau East Kaz. Ust-Kamenogors  " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola " Stennogorsk Semipala. Semipalatink " Aktogai Kokchetau Kokchetau Paylodar Paylodar " Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Balkhash " Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia East Asia Central Asia China & Mongolia Fer East Asia Uestern Asia Other Asia Other Asia Other Asia Other Asia Rustralia & Other America Africa	Akmole, Akmole	Akmole \$1 en no 9	Semipe Semipe 29228 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	30058 Semipe Aktops	46450  Kokche 8968  0 0 0 470 0 145 0 0 145 0 0 0 145 0 0 145 0 0 145 0 145 0 145 0 145 0 145 0 145 0 147 0 0 0 177 177 177 28	82491 Pavlod Pavlod 45244  8 638 8 9 2831 8 8 8 8 8 1936 35 8 8 8 8 1936 35 8 8 1936 1936 1936 1936 1936 1936 1936 1936	100366  Pavlo 6  k i ba 9  5246  8  8  8  8  8  8  8  8  8  8  8  8  8	N. Keze Petrop 8564 9 9 9 8564 9 9 8564 9 9 8564 9 9 8613	Kzyl-O Kzyl-O Kzyl-O 12285 0 0 0 0 0 0 0 0 0 0 0 0 0	Zhezke 8alkhe 9 31 9 8 8 8 8 8 9 9 9 9 8481 486 9 8918 814 191 99 287 500 49 49 500 61 18
Region Airprt  Almaty Almaty West Kaz. Uralsk Aktyubinsk Aktyubinsk Karakanda Karakanda Kustanay Kustanay Atyrau Atyrau Esst Kaz. Ust-Kamenogors  " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola " Stennogorsk Semipala. Semipalaink " Aktoga Kokchetau Kokchetau Paylodar Peyloder. " Aktoga Kokchetau Kokchetau Paylodar Peyloder. " Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhezkazgan Balkhash " Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia Eest Asia Central Asia China & Mongolia For East Asia Uestern Asia Other Asia Uest Europe North America Australia & Other America Others	Akmole Akmole 34851 0 741 0 0 2778 1772 0 591 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8kmole Stence 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Semipe 29228 9 8 63 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	30058 Semiph Aktogs 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46450  Kokche 8968  0 0 0 470 0 145 0 0 145 0 0 0 145 0 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 145 0 0 0 145 0 0 0 145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82491 Pavlod Pavlod 45244 45244 8 638 8 9 1996 35 8 1996 8 1996 8 8 1996 8 1996 9 1996 1996	100366 Pavlo 6	N. Keze Petrop 8564 9 0 8 8 613 9 2891 9 2891 9 9 9 12868 174 41 41 105 9 107 13 2	Kzyl-O Kzyl-O Kzyl-O 12285 0 0 0 0 0 0 0 0 0 0 0 0 0	2 hezke 8 alkhy 8 al 8 al 8 al 8 al 8 al 8 al 9 al 9 al 8 481 406 8 14 191 9 287 52 49 48 50 61 10 10 10 10 10 10 10 10 10 1
Region Airprt  Rimaty Almaty West Kaz. Uralsk Rktyubinsk Aktyubinsk Karakanda Karakanda Kustanay Kustanay Rtyrau Atyrau Eest Kaz. Ust-Kamenogors  " Zaysan South Kaz. Shimkent Zhambul Zhambul Akmola Akmola " Stennogorsk Semipela. Semipelatink " Aktogai Kokchetau Kokchetau Peylodar Peylodar " Ekibastuz North Kaz. Petropaylovsk Kzyl-Orda Kzyl-Orda Zhozkazgan Balkhash " Zhezkazgan Turgai Arkalyk Hangistau Aktau Total Domestic Russia Eest Asia Central Asia China & Hongolia Fer East Asia Uotter Asia Western Asia Other Asia Western Asia Other Asia Rustralia & Other Americ Africa	Akmole Akmole Akmole 34851 0 741 0 2778 172 0 591 0 0 0 0 0 0 0 0 0 0 0 0 0	Akmole Stenno 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Semipe Semipe 29228 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	46450  Kokche 8968  0 0 0 470 0 145 0 0 145 0 0 0 145 0 0 145 0 0 145 0 145 0 145 0 145 0 145 0 145 0 147 0 0 0 177 177 177 28	82491 Pavlod Pavlod 45244  8 638 8 9 2831 8 8 8 8 8 1936 35 8 8 8 8 1936 35 8 8 1936 1936 1936 1936 1936 1936 1936 1936	100366  Pavlo 6  E ki bas  5246  8  8  8  8  8  8  8  8  8  8  8  8  8	N. Keze Petrop 8564 9 9 9 8564 9 9 8564 9 9 8564 9 9 8613	Kzyl-O Kzyl-O Kzyl-O 12285 0 0 0 0 0 0 0 0 0 0 0 0 0	Zhezke 8alkhe 9 9 9 9 9 9 9 9 9 9 8481 406 9 8918 8191 99 287 508 498 498 498 498 498 498 498 498 498

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# Rough Estimated Air Passenger Origin/Destination Flow (provided that No. of Arrival Passenger equals to that of Departure in International Passenger Flow)

Region	Alrert	Zhezka	Turgai	Mengis	Domosti	Russia	East		Chine	Far Ea	
	·		Arkaly		Total		Europe		lognofi		Asia
Almaty ;	Almaty	19913	10073		406806		28429	20255	38468	5513	51987
West Kaz.	Uralsk	0	0	5252	23991	1693	398	205	598	108	1819
Aktyubinsk	Aktyubinsk	0	262	3536	28376	6465	302	156	454	82	870
Karakanda	Karakanda	0	8	8	42971	48276	2525	1301	3792	686	6460
Kustanay	Kustanay	. 0	. 0	2721	22207	18497	1883	2417	2829	512	4819
Atyrev	Atyrau	802	0	35296	54922	19966	1865	556	1688	298	2726
	Ust-Kamenagors		Ø	14942	49553	6848	1611	838	2419	438	4121
£ .	Zaysan	8	8	8	8	0	8	8	0	9 :	0
South Kez.	Shimkent	13	1518	1928	65405		729	371	1082	196	1843
Zhambul	Zhambul	175	8	4	11598	4762	1120	577	1682	384	5866
Akmola	Aknola	42	0	9	27448	19248	2675	1379	4018	727	6846
11	Stennogorsk	8	. ล	8	8	e	8	9	6	8	8
Semiosia.	Semipsiatink	8 8	9	14.	24062	6395	129	66	193	35	329
	Aktogal	0	9	0	8	0	* Ø	8	9	9	- 8
Kokchetau	Kokohetsu	73	0	7344	18653	2539	551	284	828	150	1411
Pavlodar :	Pavlodar	8	8	9	41699	21905	644	2518	968	175	1649
	Ekibastuz	8	8	e	9	8	. 0	0	. 8	9	8
	Petropaylovsk	8	8	0	7744	174	41	21	61	11	185
Kzyl-Orda ;	Kzyl-Orda	882	8	9	37398	1376	324	167	486	88	828
Zhezkezgan		565	8	0	9046	814	191	99	287	52	498
))	Zhezkezgen	3128	В	8	38626	7855	646	333	978	175	1652
Turgal	Arkalyk	0		9	8507	227	23	12	35	6	59
Hengistau	Aktau	0	8	8	81640	26721	2343	1288	3519	637	5995
Total	Comestic	25586	11845	99289	992645	468444	37621	32747	56289	10186	95993
Russia		7855	227	26721	460444				-	-	
Enst Asia		646	23	2343	37621	-			. 4		-
Central Asi	i a	333	12	1288	32747	-	-	-	-{	-	-
Chine & Mor	ngolia	970	35	3519	56289		-	-	-{	-	
Far East As	518	175	. 6	637	10186					•	
Western Asi	ia	1652	59	5995	95993		-	-	-}	-	-
BleA 16d 10		136	5	493	7891		-				
West Europe	• .	1687	60	6121	97918						
North Amer		207	7	751	12817			-	-	-	
	S other America	32	1	118	1885	-	-	-			-
Africa		4	8	14	224	-	-	-			
Others		1	e	4	79			-		-	
	rn'1 + CI\$>	13697	436	47923	813285	-	ΞΞΞΞ	-			3
	(Dome. + Intn' 1)		12281	147212	1885938						

Region	Airprt	Other	Wester	North	Austra	Africa	Others	intern'	Grand
	.,	BieA	Europe		S. Amer	ica		inte-Ci	Total
Almaty	Almaty	4271	53002	6505	1820	121	38	452002	858888
West Kaz.	Uralsk	84	1949	128	20	2	1	5296	29287
Aktyubinak	Aktyubinsk	64	789	97	15			9296	37672
Karakanda	Karakanda	532	6598	818	127	15	5	69125	112096
Kustanay	Kustenay	397	4928	624	95	1.1	4	28987	51194
Atyrau	Atyrau	224	2784	342	54	6	2	59616	84538
East Kaz.	Ust-Kamenogors	339	4208	516	81	10	3	21424	70977
n	Zaysan	9	9	8	0	0	9	8	
South Kaz.	Shimkent	152	1881	231	36	4	L	24729	90134
Zhambul	Zhambul	236	2926	359	56	7		14898	26496
Akmola	Aknola	563	6990	858	135	16	. 5	43460	70988
"	Stennogorsk	8	9	8	0	Ø	. 8	8	0
Semipale.	Semipelatink	27	336	41	6	1_		7559	31621
H	Aktogai	. 0	a	9	9	a	B_	8	. 0
Kokchetau		116	1440	177	28	3	1 .	7529	26182
Paylodar	Pavloder	136	1684	207	32	4	1	29914	71613
	Ekibastuz	0		. 0	8	0	0	. 0	0
North Kez.	Petropsviovsk	9	107	13	. 2	8	9	544	8888
Kzyl-Orda	Kzyl-Orda	68	846	184	16	2	1	4305	41695
Zhozkazgan	Balkhash	48	588	61	18	1	8	2546	11592
n	Zhezkezgan	136	1687	207	35	4		13697	44323
furgai	Arkalyk	5	60	7	1_	0	8	436	8943
Mangistau:	Aktau	493	6121	751	118	1.4	4	47923	129563
Total	Donestic	7891	97918	12017	1885	224	78	813285	1805938
Russia				-					460444
East Asia									37621
Cantral As								-	32747
China & No	ngolis	-	•	-					56289
Far East A	sia.								10186
en nieleeu	ia	i	-						95993
Other Asia									7891
West Europ	e						<del>.</del> .		97918
North Amer		-						-	12017
	8 other America	-						-	1885
Africa		-							224
Others									70
	rn'1 + CIS)	-	-			-			813285
Grand Tola	1(Dome. +Intn'l)		٢		<u> </u>		3		2619215

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Appendix-3.3.4 (5) Population of City and Village by Region in Kazakhstan and **Urban Population of Nearby Countries** 

State	1993		1994		1995		
<u> </u>	City	Village	City	Village	City	Village	
Akmole	536.5	343.5	526.8	343.6	503.5	342.2	
Aktyubinsk	419.4	348.0	489.3	350.9	463.3	349.5	
Almaty	221.7	739.7	221.3	741.6	213.8	749.8	
Atyreu	276.6	177.3	272.3	185.4	272.4	187.2	
East Kazakhatan	624.2	343.0	614.4	346.6	597.1	342.4	
Zhambul	589.8	547.1	581.4	551.2	483.5	556.1	
Zhezkazgan	391.1	103.8	389,9	103.5	383.3	101.1	
West Kezakhstan	274.5	394.8	277.1	397.2	274.0	395.8	
Karaganda	1,127.5	199.2	1,107.4	198.1	1.077.3	192.8	
Kzyl-Orda	362.2	236.2	365.2	241.1	383.9	243.1	
Kokchetau	266.4	410.0	264.6	418.3	258.4	398.8	
Kustanay	574.3	514.4	568.7	513.8	555.5	499.8	
Mangislau	309.7	36.7	272.8	65.7	258.2	86.2	
Pavloder	623.2	349.9	586.4	379.5	577.9	365.7	
North Kazakhstan	294.2	327.6	291.6	329.0	282.7	318.2	
Semipeletinsk	432.7	411.5	428.1	411.1	487.3	403.7	
Taldykorgen	327.4	414.0	322.8	415.1	318.8	419.7	
Turgal	187.5	205.8	100.7	212.5	98.2	287.9	
South Kazakhatan	776.1	1,165,2	776.2	1,193.0	773.4	1,214.4	
Almaty City	1.197.9	-	1.185.4	-	1,172.4	_	
Leninsk City	74.1	-	71.6	-	\$6.8	1.8	
Republic of	9,718,8	7,267.7	9,553.2	7.389.2	9.332.6	7.346.5	
Kazakhstan	, , , -						
Component ratio	57.21	42.79	56.39	43.61	55.95	44.85	
of city & village							

Note: 8esed on the date of the Committee of Statistics and Analysis.

Urban Population of Nearby Countries of Kezakhstan

Region and	1990 P	opulation	
Name of Country	(1988)	Urban	Urban
		(%)	(1868)
Russia	148263	66.1	96001.8
Eastern Europa	146746	64.8	93939.
Rustria	7712	58.4	
Belarus	19278		
8u)garia	9011	96.3	
Chechalovakia	15662	77.1	
Estonia	1571	71.8	
Hungary	18553	64.3	
Latvia	2683	712	
Lithania	3722	68.8	
Luxemburg •	365	84,5	
Poland	38180	61.8	
Romania	23289	53.7	
BivaleoguY	23889	56.1	
Central Asia	18678	56.0	18445.
Uzbekistan	5303	56.8	
Kyrgisten	4394	56.8	
Tajikistan	5303	56.8	
Turkmenisten	3678	56.0	
Chine	1139069	19.6	223255.
Xinjano Uyour		ì	
Zhzhigu ••			698.8
Mongolis	2198	57.9	1268.9
Source: United Nati		tistical Ye	arbook".
	93		
• :1985 Cenaua			
··: Urban polation	is essumed	for this st	udy.

\*: 1985 tensus

\*\*: Urban polation is assumed for this study.

Note: % of urban population for Russia is applied

with that for former USSR. For Cetral Asian
countries the same percenage(%) as that of
Kazakhatan is applied.

· Appendix-3.3.4 (6) Estimated Road Transport Distance (km) and Regional Indicators

	1995	Almaty	W.Keze	Aktyub	Kereke	Kustan	Atyrau	E.Kaza	\$.Kaza	Zhambu	Aknola	Semip
Region	City						'					
	Populat.											
	(1986)		1									
		1386	274	493	1077	556	272	597	773	484	504	407
Almaty	1388	111	2697	5553	1815	1847	2621	947	684	512	1234	1118
West Kez.	274	2697	133	474	2139	1224	506	3035	2014	2185	1928	2758
Aktoubinsk	403	5553	474	187	1665	750	594	2926	1539	1718	1446	2283
Xarakanda	1877	1815	2139	1865	118	1132	2428	896	1379	1103	219	618
Kustanay	556	1847	1224	758	1132	115	1344	1824	1601	1335	671	1758
Atyrau	272	2621	586	594	2428	1344	118	3324	1937	5189	2040	3946
East Kaz.	597	947	3035	2926	896	1824	3324	197	1631	1460	1186	278
South Kaz.	773	684	2814	1539	1379	1681	1937	1631	117	171	1493	1794
Zhambul	484	512	2185	1718	1103	1335	2189	1460	175	130	1322	1622
Akmola	594	1234	1928	1446	219	671	2848	1186	1493	1322	104	858
Semipels.	497	1110	2758	5583	618	1758	3946	278	1794	1622	828	147
Kokchetau	258	1532	1627	1153	517	403	1747	1413	1896	1628	298	1135
Paylodar	645	1434	2438	1956	419	1181	2550	596	1798	1522	510	318
North Kaz.	283	1707	1663	1188	692	438	1782	1588	1821	1795	473	1310
Kzyl-Orda	363	1128	1569	1895	935	1157	1493	1831	444	615	1154	1553
Zhezkazgan	383	1541	1984	1509	521	743	1987	1417	858	1829	740	1139
Turgei	98	1847	1332	857	521	437	1451	2244	1164	1335	665	1139
Mangistau	258	3128	1299	1110	2935	1860	838	3831	2444	5616	2686	3393
Taldykorgen	311	246	2944	2469	1199	2331	2867	816	938	758	1488	864

	1995	Kokche	Pavlod	N.Kaza	Kzyl-0	Zhezka	Turgai	Mangis	T.Korg	Russia	E.Asia	C.Asia
Region	City						i		ĺ.	}		
-· •	Populat.	l i	i						·			
	(1000)									1		
		258	645	283	363	383	98	258	311	96892	93939	18446
Almaty	1386	1532	1434	1787	1128	1541	1847	3128	246	3987	4627	1114
West Kaz.	274	1627	2430	1663	1569	1984	1332	1299	2944	1200	1920	2444
Aktyubinsk	403	1153	1956	1188	1095	1509	857	1118	2469	1800	1920	1969
Karakanda	1877	517	419	692	935	521	521	2935	1199	2892	3512	1809
Kustanay	556	403	1181	438	1157	743	437	1866	2331	2868	2728	2831
Atyreu	272	1747	2558	1782	1493	1997	1451	830	2867	2394	3114	2367
East Kaz.	597	1413	596	1588	1831	1417	2244	3831	816	3788	4508	5961
South Kaz.	773	1896	1798	1821	444	858	1164	2444	930	3339	4859	490
Zhambui	484	1628	1522	1795	615	1829	1335	2616	758	3518	4230	601
Akmole	584	298	518	473	1154	740	665	2686	1480	2673	3393	1923
Semipals.	497	1135	318	1310	1553	1139	1139	3393	864	3510	4230	2224
Kokcheteu	258	96	808	175	1452	1038	403	2263	1891	2375	3895	2326
Paylodar	645	888	121	668	1354	940	1129	3886	1182	5868	3588	5558
North Kaz.	283	175	668	72	1377	963	657	5538	1891	5588	2928	2251
Kzyl-Orda	363	1452	1354	1377	162	414	720	2000	1374	2895	3615	874
Zhezkazgan	383	1838	940	963	414	191	386	2414	1787	2743	3463	1288
Turgei	98	403	1129	657	720	386	114	2629	2893	2437	3157	1594
Mangistau	258	2263	3866	2298	2888	2414	2629	139	3374	2910	. 3630	2874
Teldykorgen	311	1891	1182	1891	1374	1787	5833	3374	118	4891	4811	1368

	1995	Xinjau	Hongol	
Region	City			Territory
	Populat.			Th.sq.km
	(1888)	ľ		·
		66B	1268	
Almaty	1386	1128	3228	105.7
Woot Kaz.	274	3825	5925	151.3
Aktyubinsk	483	3351	5451	300.6
Karakanda	1877	1468	3568	115.4
Kustanay	556	2592	4692	113.9
Atyreu	272	3749	5849	118.6
East Kaz.	597	1466	3566	97.5
South Kaz.	773	1112	3212	117.3
Zhambul	484	1642	3748	144.3
Akmola	504	1679	3779	92.0
Somiosis.	407	1188	3288	185.8
Kokchetau	258	1977	4077	78.2
Pavlodar	645	1506	3686	124.8
North Kaz.	283	2152	4252	45.0
Kzyl-Orda	363	2256	4356	226.0
Zhozkazgan	383	1981	4981	312.6
Turgai	98	1981	4081	111.8
Mangistau	258	4256	6356	165.6
Taldykorgen	311	888	2988	118.5

Note: Route-km(RTKM) in within zone(region) is obtained applying following formula:

RTKM = e·SQRT(Sq.km/3.1416), a:parameter.

Appendix-3.3.4 (7) Estimated Railway Transport Distance (km) and Regional Indicators

	1995	Alesty	U.Kaza	Aktyub	Karaka	Kusten	Atyrau	E.Kaza	S.Kaza	Zhambu	Aknola	Semipa
Region	City									•		
	Populat.		j									
	(1888)		: 1						أمسما	أيمنا		455
	В	1386	274	493	1877	556	272	597	773	484	594	497
Almaty	1386	111	2581	2187	1028	1895	2531	1248	679	508	1245	945
West Kaz.	274	2581	133	474	2074	1153	1068	2914	1982	2873	1849	2819
Aktyubinsk	403	2107	474	187	1600	679	594	2448	1428	1599	1375	2345
Kerakanda	1877	1928	2074	1600	116	933	2024	1589	1009	838	552	1195
Kustanay	556	1895	1153	679	933	115	1193	1728	1937	2108	708	1678
Atyreu	272	2531	1858	594	2024	1193	118	2823	1852	2023	1799	2769
East Kaz.	597	1248	2914	2440	1288	1720	2823	197	1919	1748	1055	295
South Kaz.	713	679	1902	1428	1889	1937	1852	1919	117	171	1234	1624
Zhambul	484	588	2873	1599	838	2108	2023	1748	171	138	1063	1453
Akmole	504	1245	1849	1375	225	708	1799	1055	1234	1863	184	978
Semipale.	407	945	2819	2345	1195	1678	2769	295	1624	1453	978	147
Kokoheteu	258	1543	1789	1235	523	410	1659	1353	1532	1361	298	1268
Paylodar	645	1755	2359	1885	735	923	2389	545	1744	1573	518	545
North Kaz.	283	1718	1894	1410	698	585	1834	1528	1707	1536	473	1443
Kzyl-Orde	363	1389	1192	984	1453	1227	1142	2868	2462	881	1678	2334
Zhezkazgan	363	1281	2595	2121	521	1454	2545	1891	1538	1359	746	1716
Turgei	98	1879	1679	1285	863	579	1629	1693	1872	1701	1454	2424
Mangistau	258	3873	1618	1136	2566	1645	798	3486	2393	2565	2341	3311
Taldykorgan	311	347	2928	2454	1367	2545	2878	1075	1828	855	1592	780

	1995	Kokche	Pavlod	N. Kaza	Kzyl-0	Zhezka	iegaul	Manois	T.Korg	Russia	E.Asia	C.Asia
Region	City							1				
,	Populat.		i i	1								
	(1888)	i i										
	8	25,8	645	283	363	383	88	258	311	98002	93939	10446
Almaty	1386	1543	1755	1718	1389	1281	1879	3813	347	3918	4638	1129
West Kaz.	274	1709	2359	1884	1192	2595	1679	1618	2928	1280	1928	2352
Aktyubinsk	403	1235	1885	1410	984	2121	1285	1136	2454	1888	1928	1878
Karakanda	1077	523	735	698	1453	521	863	2566	1367	5838	3618	1459
Kustanay	556	410	828	585	1227	1454	579	1645	2242	2008	2720	2387
Atyrav	272	1859	2389	1834	1142	2545	1629	798	2878	2394	3114	2392
East Kaz.	597	1353	545	1528	2868	1801	1693	3406	1875	3728	4448	2369
South Kez.	773	1532	1744	1787	2462	1538	1872	2393	1026	3558	3948	458
2hambul	484	1361	1573	1536	881	1359	1701	2565	855	3399	4119	621
Akmola	584	298	518	473	1678	746	1454	234)	1592	2673	3393	1684
Somiosle.	487	1268	545	1443	2334	1716	2424	3311	788	3643	4363	2074
Kokchetau	258	96	898	175	1783	1844	1752	2201	1898	2375	3895	1982
Pavlodar	645	888	121	983	2188	1256	1964	2851	1598	3183	3983	2194
North Kez.	283	175	983	72	2151	1219	1927	2376	2063	2260	2920	2157
Kzyl-Ords	363	1783	2188	2151	162	1974	1753	1684	1736	2784	3238	2912
Zhezkazgan	383	1044	1256	1219	1974	191	2298	3087	1628	3454	4174	1988
Turgai	98	1752	1964	1927	1753	5598	114	2171	5558	2579	3293	5355
Mangistau	258	2281	2851	2376	1684	3987	2171	139	3428	2936	3656	2843
Taldykorgan	311	1898	1590	2063	1736	1628	2226	3428	118	4263	4983	1476

	1995	Xiniau	Mongol	
Region	City			Territory
	Populat.	li		Sq.km
* 4	(1888)	. 1		
	0	688	1268	
Almety	1386	1250	8	105.7
Wast Kaz.	274	1128	8	151.3
Aktyubinak	403	3357	0	300.6
Karekanda	1077	1590	9	115.4
Kustanay	556	2523	0	113.9
Rtyrau	272	3781		118.6
Eest Kaz.	597	1455	0	97.5
South Kaz.	773	1929	8	117.3
Zhambul	484	1798	0	144.3
Akmola	504	1815	9	92.8
Semipala.	487	1168	. 0	185.8
Kokchetau	258	2113	8	78.2
Pavlodar	645	1705	8	124.8
North Kaz.	283	5588	8	45.8
Kzyl-Orda	363	2639		228.0
Zhezkazgan	383	2111	8	312.6
Turgai	98	2453	Ø	111.8
Mengistau	258	4323	. 0	165.6
Taldykorgan	311	1658	. 0	118.5

Note: Route-ka(RTKN) in within zone (region) is obtained applying following formula:

RTKM = 8 \* SORT (Sq. km/3.1416), asparameter.

Appendix-3.3.4 (8) Estimated Air Transport Distance (km) and Regional Indicators

Region	City Pop.	Almaty	W.Kaza	Aktyub	Karaka	Kustan			S.Kaza		Akmole	
Almsty	1386	110	2218	1798	769	1550	5588	888	676	598	960	860
West Kaz.	274	5510	132	418	118	960	450	2159	1678	1740	1378	1978
Aktyubinsk	403	1790	416	186	1238	550	618	1779	1392	1338	1048	1600
Kerakende	1077	769	110	1238	115	790	1840	1108	1118	930	588	518
Kustanay	556	1558	968	550	798	114	1160	1480	1318	1268	588	1160
Atyrav	272	5568	458	619	1848	1169	117	2689	1598	1580	1450	2969
East Kaz.	597	889	2156	1770	1108	1488	2680	108	1300	1150	790	428
South Kez.	773	670	1678	1389	1118	1318	1500	1388	116	550	1898	1200
Zhambul	484	590	1740	1330	938	1268	1588	115B	228	129	989	1866
Akmola	584	960	1378	1848	200	560	1450	790	1090	900	193	618
Semipale.	487	860	1970	1688	510	1169	2060	420	1208	1868	610	146
Kokcheteu	258	1250	1370	968	450	370	1380	1070	1516	1148	260	1158
Pavlodar	645	1060	1720	1478	388	888	1840	479	1448	1188	410	318
North Kaz.	283	1250	1220	978	619	468	1450	1038	1370	1310	430	1128
Kzyl-Orde	383	940	1250	858	798	918	1260	1278	420	510	820	1138
Zhezkazgan	383	1800	1210	840	469	660	1170	1100	630	610	460	945
Turgai	98	1338	1070	720	500	390	1138	1108	960	878	448	930
Manoistau	258	2180	828	889	1790	1430	378	2438	1658	1638	1700	2188
Taldykorgan	311	298	2338	1668	658	1386	5838	638	778	618	849	610

Region	City Pop.	VAVA NA	Paylod	N Kaza	Kzyl-0	Zhezka	Turgai	Mangis	T.Kord	Russia	E. Asi	C. Asia
Almaty	1386	1250	1968	1259	940	1988	1338	2188	298	3278	3790	880
West Kaz.	274	1378	1720	1228	1258	1210	1078	820	2330	1070	1750	1880
Aktyubinsk	403	968	1470	978	858	840	728	888	1668	1498	2148	1488
Karakanda	1077	459	360	618	790	460	588	1790	658	2588	3040	1388
Kustanay	556	370	980	480	918	669	398	1430	1388	1798	2288	1688
Atyrau	272	1388	1848	1450	1268	1170	1130	378	2030	1520	5588	1560
East Kez.	597	1978	478	1038	1278	1100	1100	2438	638	3110	3610	1770
South Kaz.	773	1218	1448	1378	428	638	960	1659	778	2848	3360	398
Zhambul	484	1140	1100	1316	518	619	870	1638	616	2960	3488	548
Akmola	504	268	410	430	858	469	448	1708	848	2310	2888	1376
Semipala.	407	1150	318	1120	1139	945	938	2188	618	3170	3470	1658
Kokchatau	258	95	510	190	988	610	378	2198	1118	2120	2620	1678
Paylodar	645	510	128	610	1160	870	720	2898	816	2628	3116	1650
North Kez.	283	190	610	72	1220	780	530	1778	1260	2819	2580	1778
Kzyl-Orda	383	968	1168	1558	161	368	890	1248	1000	2320	3070	628
Zhezkazoan	383	618	878	783	368	189	338	1348	870	5350	2878	948
Turgai	98	378	728	538	898	330	113	1389	1020	2180	2548	1599
Mengistau	258	2190	5890	1770	1240	1340	1380	138	5358	1860	2338	154B
Teldykorgen	311	1110	810	1260	1669	870	1020	5358	117	3300	3760	1158

Région	City Pop.			Territory
Almety	1386	930	2450	105.7
West Kaz.	274	2900	3958	[51.3
Aktyubinsk	403	2478	3618	300.6
Katakanda	1077	1370	2510	115.4
Kustanay	556	2149	3110	113.9
Atyrau	272	2849	4898	118.6
East Kaz.	597	800	3040	97.5
South Kaz.	773	1530	1830	117.3
Zhambul	484	1370	2870	144.3
Akmola	504	1530	2590	92.8
Semipela.	407	960	1998	185.8
Kokohelau	258	1770	2768	78.2
Pavlodar	645	1300	2218	124.8
North Kaz.	283	1988	2738	45.8
Kzyl-Ords	363	1828	3210	226.8
2hezkazgan -	383	1788	2960	312.6
Turgai	98	5696	3160	111.8
nangistau	258	3000	4300	165.6
laldykorgen	311	770	2250	118.5
Man A a A Committee Commit	A COTURE 1		2000/2	

Note: Route-km(RTKM) in within zone(region) is obtained applying following formula:

RTKM = a·SQRT(Sq.km/3.1416), a: parameter(3/5),

Appendix-3.3.4 (9) Number of Passengers carried by Bus Transportation

					100058	inas
State	1990	1991	1992	1993	1994	1995
Total Kazakhatan	3443714.0	3191673.4	2620995.3	2237033.8	1622980.8	1447113.0
Akmola	129577.0	108434.2		67181.8	52988.8	36763.8
Aktyubinsk	88359.0	76844.3	64152.2	50010.0	42000.0	35478.8
Almaty	182521.8	90911.0	67468.5	47368.8	38788.8	25986.8
Atyreu	66933.0	59641.4	37804.2	21509.8	18589.0	7356.8
East Kazakhatan	397626.9	292484.6	242988.2	185232.0	104480.8	91361.8
Zhanbul	232693.0		199803.0	162700.0	119400.0	86082.0
Zhazkazgan	109378.0	103598.6	63414.2	70844.0	80000.0	22736.8
West Kazakhstan	92094.0	86679.3	69661.1	65609.0	53808.0	58174.8
Karaganda	460135.0	435174.2	361267.1	325482.0	258900.0	198488.8
Xzyl-Orda	102226.0	97544.1	188644.6	72564.8	45908.0	34468.8
Kokchatau	95248.0	84873.1	57788.2	44252.8	34688.8	36178.6
Kustanay	198761.8	179529.2	157616.8	116821.8	70888.8	59288.8
Mengistau	73955.8	70899.4	58599.4	33760.8	18889.6	79988.8
Paviodar	191319.8	188217.0	186789.0	173101.0	113200.0	124425.8
North Kezakheten	68946.8	55285.5	41821.8	34460.8	20100.0	11504.0
Samipalatinsk	174603.0	163486.1	147421.4	101485.0	76509.0	78232.0
Taldukorgen	125584.0	120814.9	113983.0	85123.8	47709.0	23293.0
Turgel	23615.0	19679.5	12208.2	18581.8	5908.0	3142.8
South Kezakhstan		258611.0	173452.0	172248.0	112800.0	86765.8
Almaty City	501829.8	462285.8	363487.0	390273.0	314300.0	367574.8
Leninsk City	17609.0	15901.8	10882.0	6518.8	2500.0	-

Number of Passengers carried by Bus Transportation for Common Use (thousands)

State	Total	Within	Suburban	Inter-	Intern'l	Intern'i
		city		city	in CIS	exclud.
		!				CIS
Total Kazakhstan	1447113	1248543	158593	44626	3347	4
Akaola	36763	34876	1845	842	-	-
Aktyubinsk	35478	34874	551	250	133	-
Almaty	25986	9329	15899	1455	23	-
Atyrau	7356	5545	1389	414	8 1	- '
East Kazakhstan	91361	86371	3969	975	46	
Zhambul	. 86882	70594	12363	3125	-	-
Zhezkazpan	22136	19338	3323	75	-	
Nost Kezakhatan	58174	33991	8348	13223	2628	-
Keregande	198488	180304	9447	724	13	-
Kzyl-Orda	34468	15456	11392	7620	-	-
Kokchotau	30178	28637	897	629	35	-
Kustańsy	53288	49792	2851	645		_
Mangistau	79900	45848	30742	3318	-	-
Paviodar	124425	116974	5288	1958	221	-
North Kazakhstan	11504	10531	458	473	42	- '
Semipalatinsk	78232	73549	3964	703	16	-
Yaldykorgan	23293	11158	8244	3887	-	4
Turgai	3142	2886	282	54	-	<b>→</b>
South Kazakhstan	86765	54564	27745	4266	190	
Almsty City	367574	363934	3622	18	-	-
teninsk City	-					

Source: Committee of Statistics and Analysis

Appendix-3.3.4 (10) Number of Passengers carried by Railway Transportation

(thousands) 1990 1991 State 1992 1993 1994 1995 38261.4 40002.0 39734.8 Total Kazakhstan 44034.3 41118.9 33748. 4 2698.5 3079.7 3270.6 Akmola 3918.5 3581. 1 3344.0 1570.0 1607.8 1341.3 1214. 2 Aktyubinsk 1241.9 1300.3 Almaty 2127.5 2244. 8 2389. 9 2730.6 2553.4 2384. 3 1178.5 Atyrau 1397.7 1406.8 1023. 2 919.3 858.4 1365. 9 1435.0 1475.3 East Kazakhstan 1399.0 1226.3 1313.2 1197.5 2hambul 1418. 1 1264. 2 1252. 2 861.9 804.8 1048.3 Zhezkazgan 1182. 2 1059.5 1110.2 1003.7 937. 2 West Kazakhstan 872.5 885. 1 883.7 907.9 694.8 648.8 Karaganda 5464.5 4870.6 5053.4 4474.3 4572. 2 4269.5 Kzyl-Orda 1187.5 1307.3 1005.8 779.6 983.8 918.7 Kokchetau 1203.3 1263. 2 1232.6 1188.6 1487.3 1388.8 1477. 2 2160.7 Kustanay 2244.4 2043.7 2156.5 2013.7 755.8 Mangistau 559.8 779.9 618.8 670.4 626.0 9241.5 Pavlodar 9473. 2 9806.4 13036.9 12946.6 12089.4 2619.8 North Kazakhstan 2606.9 2741.4 3703.4 2462. 2 2299. 2 Semipalatinsk 1531.7 1540.1 1341.3 1174.3 1024.8 957.0 Taldykorgen 547.5 561. 2 529. 2 511.6 416.0 388.5 Turgai 668.8 465.4 404. 2 635. 6 488.3 456. 9 South Kazakhstan 1461.7 1672.7 1620.1 1857. 1 1348.6 1259.3 Russia (Orenbourg) 275.0 350.6 216.4 202.1 Kirgistan/Altai 110.1 102.8 Krai 8. 0 7.5

Source: Committee of Statistics and Analysis

Note: Data by state in 1995 are estimated using the total in 1995 as control total which is available data, assuming relative weight on passengers

by region in 1994 as constant.

## Appendix-3.3.4 (11) Passenger Transportation by Transport Mode in Kazakhstan

(1) Numbe	r of Passen	gers		(Yil. Passe	ngers)
Year	Railway	Auto		Air	Total
1985	34, 10	-	2,60	7, 40	3478.00
1986	35, 80	3516, 00	2, 80	7, 64	3562, 24
1987	37, 50	3598, 10	3.00	7, 88	3646, 48
1988	39, 20	3680, 20	3, 20	8, 12	3730, 72
1989	40, 90	3762, 30	3, 40	8, 36	3814, 96
1990	42, 60	3844, 40	3, 60	8, 60	3899, 20
1991	40, 00	3264, 80	3, 10	7, 90	3315.80
1992	39, 70	2945, 90	1, 30	5, 10	2992, 00
1993	42, 70	2357.70	1, 30	3, 60	2405, 30
	Year 1985 1986 1987 1988 1989 1990 1991	Year         Railway           1985         34, 10           1986         35, 80           1987         37, 50           1988         39, 20           1989         40, 90           1990         42, 60           1991         40, 00           1992         39, 70	1985         34, 10         3433, 90           1986         35, 80         3516, 00           1987         37, 50         3598, 10           1988         39, 20         3680, 20           1989         40, 90         3762, 30           1990         42, 60         3844, 40           1991         40, 00         3264, 80           1992         39, 70         2945, 90	Year         Railway         Auto         Vater           1985         34, 10         3433, 90         2, 60           1986         35, 80         3516, 00         2, 80           1987         37, 50         3598, 10         3, 00           1988         39, 20         3680, 20         3, 20           1989         40, 90         3762, 30         3, 40           1990         42, 60         3844, 40         3, 60           1991         40, 00         3264, 80         3, 10           1992         39, 70         2945, 90         1, 30	Year         Railway         Auto         Vater         Air           1985         34.10         3433.90         2.60         7.40           1986         35.80         3516.00         2.80         7.64           1987         37.50         3598.10         3.00         7.88           1988         39.20         3680.20         3.20         8.12           1989         40.90         3762.30         3.40         8.36           1990         42.60         3844.40         3.60         8.60           1991         40.00         3264.80         3.10         7.90           1992         39.70         2945.90         1.30         5.10

(2) Passe	nger-kø		(Mrd. Passenger-k		
Year	Railway	Auto	Yater	λir	Total
1985	15, 80	33, 30	0. 10	10, 50	59, 70
1986	16, 58	34. 30	0, 10	11.06	62, 04
1987	17, 36	35, 30	0. 10	11, 62	64, 38
1988	18, 14	36, 30	0, 10	12, 18	66, 72
1989	18, 92	37, 30	0, 10	12, 74	69, 06
1990	19, 70	38, 30	0. 10	13, 30	71, 40
1991	19, 40	35, 70	0. 10	12, 60	67, 80
1992	19, 70	28. 30	0.04	8.80	56, 84
1993	24.50	22, 90	0. 02	6, 80	54. 22

ge Length of	Transprtat	ion		(Ka)
Railway	Auto	Vater	Air	lotal
463, 34	9.70	38, 46	1418, 92	17, 17
463, 13	9, 76	35, 71	1447, 64	17, 42
462, 93	9, 81	33, 33	1474, 62	17, 66
462, 76	9, 86	31, 25	1500, 00	17, 88
462, 59	9, 91	29, 41	1523, 92	18, 10
462, 44	9, 96	27, 78	1546, 51	18, 31
485, 00	10, 93	32, 26	1594, 94	20, 45
496, 22	9, 61	30, 77	1725, 49	19, 00
573, 77	9.71	15, 38		22, 54
	Railway 463. 34 463. 13 462. 93 462. 76 462. 59 462. 44 485. 00 496. 22	Railway Auto 463, 34 9, 70 463, 13 9, 76 462, 93 9, 81 462, 76 9, 86 462, 59 9, 91 462, 44 9, 96 485, 00 10, 93 496, 22 9, 61	463, 34     9, 70     38, 46       463, 13     9, 76     35, 71       462, 93     9, 81     33, 33       462, 76     9, 86     31, 25       462, 59     9, 91     29, 41       462, 44     9, 96     27, 78       485, 00     10, 93     32, 26       496, 22     9, 61     30, 77	Railway         Auto         Water         Air           463, 34         9, 70         38, 46         1418, 92           463, 13         9, 76         35, 71         1447, 64           462, 93         9, 81         33, 33         1474, 62           462, 76         9, 86         31, 25         1500, 00           462, 59         9, 91         29, 41         1523, 92           462, 44         9, 96         27, 78         1546, 51           485, 00         10, 93         32, 26         1594, 94           496, 22         9, 61         30, 77         1725, 49

Appendix-3.3.4 (12) Regression Analysis on Relationship between Passenger Traffic and Economic Indicators

Year	(11)	(45)	(X1)	(XS)	Regress	ion Output	(1)
	in((1))	1n({3})	1n((5))	ln((6))		,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
197	0 10.611671	13.283083	12.061213	11.539141	Itens	(X1) - (Y1)	
197	5 10.740627	13.474821	12.281328	11.803443	Constant	4.087349	3.751825
197	6 10.751178	13.472385	12.320836	11.838059	Std Err of Y Est	0.025689	8.829229
197	7 10.769916	13.474474	12,367360	11.878674	R Squared	0.968223	B.958682
197	8 10.807878	13.524475	12.417391	11.938153	No. of Observation	5.9	89
197	9 10.847705	13.563628	12.470762	11.990069	Degree of Freedom	18	18
198	9 10.853600	13.569658	12.581789	11.997328	İ	}	]
198	1 10.854489	13.588243	12.533898	12.019191	X Coefficient	0.540121	0.598954
198	2 18.858557	13.597886	12.567879	12.092638	Std Err of Coof.	0.823863	0.028946
198	3 18.869349	13.619451	12.597399	12.895866	Exp(Constant)	59.5817	42.5988
198	4 13.877708	13.631957	12.641375	12.120142	Itens	(X1) - (Y2)	(X2) - (Y2
198	5 10.894273	13.662585	12.688373	12.155521	Constant	4.348488	3.913351
	6 18.987881				Std Err of Y Est	0.035906	8.042883
	7 18.955558				R Squared	9.966639	8.952492
198	8 11.007021	13.813295	12.822991	12.286782	No. of Observation	50	50
	9 11.060384				Degree of Freedom	18	18
	0 11.078984						
	1 11.181251				X Coefficient	8.738499	8.885958
	2 11.113865				Std Err of Coef.	8.032338	8.042467
	3 11.116321				Exp(Constant)	77.3552	50.0664

Towns I am			70 5010 - 11400 540101	8^2 = 0.968223
e i por muta:	A 1	-	59.5817 • X1^0.548121,	K Z = 0.300223
	Y1	*	42.5988 • X2^0.598954,	R^2 = 0.958692
}	Y2	=	77.3552 • X1^0.738409.	R^2 = 0.966530
	Y2	=	50.0664 · X2^0.805950,	R^2 = 0.952462

Key Economic Indicators and Passenger Traffic Volume in Japan

Year		No. 01	No. of Pax.	Pax-ka.	Pax-km.	Gross	Private
		Pax.	Pax.			National Products	Sector Final
	1			-		Products	солзивр.
							Expendit
						('85 const	
		(Million)	(Million)	(Million)	(million)	(Billia)	teillia)
		(1)	(2)	(3)	(4)	(5)	(6)
	1950	10004	10004	117126	117126		
•	1955	14116	14116	165826	165826	* .	*
	1969	28291	20291	243275	243275		
	1965	39793	38793	382481	382481		
•	1978	49686	48686	587178	587178	173028.7	102656.2
	1975	48195	46195	710711	710711	215631.8	133711.9
	1976	46685	48685	789549	709549	224321.5	136421.6
	1977	47568	47568	711833	711033	235004.4	144159.2
	1978	49359	49369	747489	747489	247061.2	152993.8
	1979	51416	51416	777336	777336	260605.3	161146.4
	1988	51728	51728	782831	782831	268817.9	162320.5
	1981	51766	51766	790359	790359	277367.4	165988.3
	1982	51977	51977	804363	894363	287184.3	178551.0
	1983	52541	\$2541	821963	821963	295788.1	178986.6
	1984	52982	52982	832307	832307	399086.0	183531.6
	1985	53867	53887	858194	858194	323959.2	190148.9
	1986	\$4557	54557	875649	875649	333309.9	197354.6
	1987	57271	69352	930237	1107983	349769.8	205472.1
	1988	60296	73167	997787	1190641	370641.7	216811.1
	1989	63681	77259	1068323	1267043	387478.2	224852.4
	1993	64795	77934	1108168	1298436	487155.5	232965.5
	1991	66254	80347	1134697	1338963	422012.0	239178,4
	1992	67895	81764	1151971	1353314	424740.1	241378.7
	1993	67268	82271	1151988	1355779	423161.6	244859.6
	1994	67486	82758	1154398	1360318	-	-

Source: "National Transportation Statistics Handbook, 1995" edited by Hinistry of Transport. Transport Policy Bureau Information and Research Department.

Note: Thick-linemed frame in (2) and (4) include light passenger and cargo automobiles for private use.

# Appendix-3.3.4 (13) Formulation of Model for Distribution of Inter - Neighboring Countries Railway Passengers

TRij = (CPi + CPj) + Dij (-x)Type of formula: TRij : No. of railway passengers between zone (i) and zone (j). Pi.Pj : City population of zone (i) and zone (j) respectively (Thousands). Dij : Transport distance between zone (i) and zone (i) (km) In this study a parameter (-x) is obtained based on the relevant traffic data on the route of Almaty~Russia as follows: TRij : 182532 : 98002 CPi : 1386. 2 CPj : 3918 Dij  $-x = \ln ((98002 \pm 1386. 2) / 182532) / \ln (3918)$ -(x) 0.7992403

(Data-1) Railway Passengers carried in 1995 and 1996

(Million passenger-km) 1996 1st 1995 Items Quarter 13782 3053 Total 1180 5177 Almaty Railway Devision 872 West Kazakhstan Railway Devision 3924 1001 Akmola Railway Devision 4681

Source: Railway Dep., MOTC

(Data-2) Number of Railway Passengers for April 1996

0 - D	Number of Pas	sengers
:	(April) (A)	(A) x 12 (B)
Almaty - Noscow	15211	182532
Almaty - Urmqi	1093	13116

Source: Railway Dep., MOTC

# Appendix-3.3.4 (14) Analysis on Distribution of Inter - City Bus Passengers

from Almaty to:	No. of	No. of	Popula	tion (Thou	eands)	Distance
	bus pax.	bus pax.	City(i)	City(j)	Product	(km)
	Dec./1995	(11×12		,	(3)x(4)	l
	(1)	(5)	(3)	(4)	(5)	(6)
Bishkek	3037	36444	1158.5	4009.0	4612355	236
Ust-Kamenogorsk	646	7752	1150.5	325.3	375498	926
Urdzer	925	11188	1158.5	44.1	58737	745
Kebanbai	956	11472	1150.5	52.0	59826	496
Balkhesh	971	11652	1150.5	84.4	97102	657
Chinkent	594	7128	1150.5	397.6	457439	713
Kereganda	116	1392	1150.5	573.7	658042	1815
Zhamble	2362	28344	1159.5	318.6	357345	516

Source: Almety "new bus terminel"

#### Regression analysis

	1n(2)	10(5)	1n(6)
	(Y)	(x1)	(x2)
8 ishkek	8.818625	15.344249	5.463832
Ust-Kamenogorak	6.470808	12.835769	6.838874
Urdzar		18.834412	6.613384
Kebanbai	6.862758	18.999196	6.206576
Balkhash		[11.483519]	6.487684
Chlakent		[13.033398	6.569481
Karaganda		13.400059	6.922644
Zhamble	7.767264	12,786458	6.246107

a. Regression Output fo	or x1.x2 and Y.
Constant	22.185879
Std Err of Y Est	0.6263732
R Squared	0.7146643
No. of Observation	8
Degree of Freedon	5
X Coefficient	-0.19516 -2.02302
Std Err of Coef.	0.1794879 8.5798724
ote: The obtained sign(-)	for (x1) is not significant.

Constant	5.6113522
Std Err of Y Est	1.0696787
R Squared	B.0181646
No. of Observation	8
Degree of Freedon	6
X Coefficient	0.0901259
Std Err of Coef.	0.278588

c. Regression Output for x2 Constant	17.888855
sid Err of Y Est	8.6358697
R Squared	8.6471361
No. of Observation	8
Degree of Freedon	6
X Coefficient	-1,736303
Std Err of Coef.	0.5234265

# Appendix-3,3.4 (15) Formulation of Cost Estimate Model for Air Passengers

(1) International Ric Tariff inclu-	sing UAT - Ka	zakhsten Air	line
Air Route	Distance (km)	US\$	Tanga
Ashoebad - Almaty	1888	83	5057
Ashqabad - Ust-Kamenogorsk	2730	198	11577
Bako - Aktou	398	50	3047
Bolgograd - Aktau	780	65	3961
Dashanda - Almaty	888	89	4874
Eketerinburg - Almsty	1928	147	8957
Eksterinburg - Zhamblul	1888	138	8409
Ekaterinburg - Zhezkazgan	1129	. 82	4996
Ekaterinburg - Kokshelau	718	59	3595
Ekaterinburg - Pavlodar	1210	93	5667
Ekaterinburg - Petropavlovak	600	46	2803
irkutsk - Almaty	2650	298	12186
Kalimingrad - Almaty	4440	500	12186
Kalimingred - Uralsk	2185	183	6276
Kiev - Almaty	3820	168	10236
Klov - Uralsk	1616	86	5248
Minesi Vodi - Aktau	658	50	3047
Mines! Vodi - Almaty	2830	152	9262   3351
Mineal Vodi - Atyrau	768	55	6581
Nineal Vodi - Karaganda	2688	108 144	8714
Mineal Vodi - Kustanai	1928	150	9140
Hoskow - Akmole	1868	93	5667
Moskov - Aktsu	1498	105	6398
Moskow - Aktyubinsk Moskow - Almsty	3278	180	10968
Moskow - Alyrau	1520	148	8538
Moskow - Balkhash	2840	155	9444
Moskow - Zhamble	2980	161	9818
Moskow - Zhezkezgen	2328	186	6459
Moskow - Karaganda	2588	136	8287
Moskow - Kokshetau	2128	115	7087
Moskow - Kustansi	1798	130	7921
Moskow - Pavlodar	2628	145	8835
Moskow - Petropsylovsk	2018	165	6398
Moskow - Semipalatinsk	3170	172	10488
Moskow -	1070	85	5179
Moskov - Ust-Kamanogorsk	3118	180	18968
Moskow - Shinkent	. 2848	155	9444
Novosibirsk - Almaty	1438	85	5179
Novosibirsk – Ust-Kamanogorsk	628	75	4578
Nokus - Aktau	710	47	2864
Nukua - Kzyl-Orda	698	59	3595
Nokos - Shiakent	930	86	5248
Omsk - Aknola	470	48	2437 5179
Omsk - Almaty	1436	85 93	5178
Omsk - SZhanbul	1603 920	52	3168
Omsk - Zhozkazgan	310	32	1959
Onsk - Kokshetau Onsk - Paytodar	480	25	1523
Omsk - Paytodar Omsk - Shimkont	1550	95	5788
Posty-on-Bone - Aktau	1868	84	5118
Samara - Aktau	1090	91	5545
Samara - Almaty	2469	148	8538
Samara - Atyreu	139	78	4753
St. Potersburg - Aktybinsk	2149	102	6215
St. Petersburg - Almaty	3790	170	10358
Tashkant - Almaty	780	- 60	3656
Tashkent - Balkhash	690	71	4326
Tashkone Cotkinson	75B	58	3534
Tashkent - Zhezkazgan			
lashkent - Zhozkazgan lashkent - Kustanai	1438	92	5686
Tashkent - Zhozkazgan Tashkent - Kustanai Tashkent - Pavlodar	1438 1648	185	6398
Tashkent - Zhozkazgan Tashkent - Kustanai Tashkent - Pavlodar Tashkent - Shimkent	1438 1649 128	185 25	6398 1523
Tashkent - Zhozkazgan Tashkent - Kustanai Tashkent - Pavloder Tashkent - Shimkent Urdzhar - Almaty	1438 1648 128 668	185 25 41	6398 1523 2498
Tashkent - Zhozkazgan Tashkent - Kustanai Tashkent - Pavlodar Tashkent - Shimkent Urdzhar - Almaty Urdzhar - Semipalatinsk	1438 1648 128 668 428	185 25 41 25	6398 1523 2498 1523
Iashkent - Zhozkazgan Iashkent - Kustanai Iashkent - Pavlodar Iashkent - Shimkent Urdzhar - Almaty	1438 1648 128 668	185 25 41 25 138	6398 1523 2498

Regression An Regression Out	
Constant	1779.3
Std Err of Y Est	1106.2
R Squared	0.850656
No. of Observation	66
Degree of Freedom	64
X Coofficient	2.678243
Std Fee of Coat.	0.139855

TRETA = 1779.3 + 2.6782 x DIST(km) App. 3 - 38

## Formulation of Cost Estimate Model for Air Passengers

2) Domestic Air teriff including U	Distance	an Airlina Tariff	
Air Route	(km)	US\$	Tenge
Akmola - Aktuubinsk	1048	91	554
Akmola - Almaty	968	84	511
Akmola - Arkalyk	448	45	274
Akmola - Atyrau	1650	107	652 79
Akmola - Karaganda	200	13 187	652
Akmola - Kzyl-Orda	\$20 410	55	134
Akmola - Pavlodar	888	68	365
Akmola - Ust-Kamenogorsk Akmola - Shimkent	1098	78	426
Aktau - Aktyubinsk	888	62	377
Akteu - Almaty	2188	128	731
Aktau - Atyrau	378	35	213
Aktau - Kzyl-Orda	1248	90	548
Aktau - Kokshetau	2190	83	505
Aktau - Kustanai	1430	189	664
Akteu - Uralsk	820	86	524
Aktau - Ust-Kamanogorsk	889	78	426
Akteu - Shimkont	1658	112	682
Aktyubinsk - Almaty	1790	90	548
Aktyubinsk - Arkelyk	728	57	347
Aktyubinsk - Alyrau	616	40	243
Aktyubinsk - Zhezkazgan	848	64	390
Aktyubinak - Karaganda	1238	87	538
Aktyubinsk - Kokshetau	968	55	335
Aktyubinek - Kuetanai	558 1470	5 t 8 3	318° 505°
Aktyubinak - Pavlodar	978	62	377
Aktyubinak - Petropavlovsk	410	44	268
Aktyubinek - Uralek	1338	98	548
Almety - Arkelyk	2288	115	780
Almety - Alyrau Almety - Balkhash	450	37	225
Almaty - Carkness	590	48	243
Almsty - Zhezkezgan	1089	65	396
Almaty - Zaisan	960	90	548
	769	58	353
Almety - Keragenda Almety - Kzyl-Orda	940	85	5179
Almsty - Kokshetau	1250	85	517
Almaty - Kostanai	1550	118	678
Almety - Payloder	1068	75	4578
Almaty - Patropaviovsk	1258	98	548
Almsty - Semipalatinsk	868	59	3599
Almaty - Uraisk	2218	128	7312
Almaty - Ust-Kamanogorsk	888	58	353
Almety - Shinkent	678	45	2743
Almsty - Ekibastuz	988	66	4021
Arkelyk - Zhembul	1898	49	2986
Arkelyk - Zhezkezgen	338	. 22	1340
Arkalyk - Karaganda	598	. 48	243
Arkelyk - Kzyl-Orda	698	83	5051
Arkalyk - Shimkent	969	62	3778
Atyrau - Zhezkazgan	1440	89	487
Atyrau - Karaganda	1840	137	8348
Atyrau - Kzyl-Orda	1268	77	4692
Atyrau - Kustansi	1160	79	4814
Atyrau - Petropavlovsk	1576	102	6215
Atyreu - Urelak	450	38	2315
Balkhash - Zhezkezgan	688	38	1828
Balkhash - Pavlodar	638	37	225
Zhambul - Zhezkazgan	768	69	3656 3717
Zhambul - Karaganda	936 228	61 11	676
Zhambul - Shimkent Zhezkazgan - Kzyl-Orda	368	42	2559
Zhezkazgan - Pavlodar	976	49	2988
Zhezkazgan - Shimkent	638	55	3351
Karaganda - Kostanai	798	54	3298
Karaganda - Ust-Kamenogorsk	848	75	4576
Keraganda - Shimkent	1110	66	402
Kzyl-Orda - Pavlodar	1228	95	5789
Kzyl-Orda - Shimkont	428	27	1649
Kokshetau - Uralsk	1378	181	6154
Kokshelau - Ust-Kamenogorsk	1970	68	3656
Kostanai - Patropavlovsk	420	38	1828
Kostanai - Ust-Kamanogorsk	1480	88	5362
Kostanai - Shimkent	1310	83	5857
Paylodar - Petropaylovsk	610	5.7	3473
Paylodar - Shimkent	1448	95	5788
Semipalatinsk - Ust-Kemenogorsk	170	8	487
Urelsk - Ust-Kamenogorsk	2330	198	11577

## Formulation of Cost Estimate Model for Air Passengers

Regression Analysis (2)

Regression Output	
Constant	909.6
Std Err of Y Est	919.4
R Squared	0.769595
No. of Observation	78
Degree of Freedom	76
X Coefficient	3.311398
Std Err of Coef.	0.207835

 $TRFDA = 989.6 + 3.3114 \times DIST(km)$ 

Appendix-3.3.4 (16) Formulation of Cost Estimate Model for Railway Passengers

Relivey Tariff (Tange) from Almaty to: Distance Tatiff (Tenge) (km) Reserved Compart-Sleeping ment ¢aı 1741 Akmola 1343 545 865 1198 Aktau 3150 1898 3796 Aktyubinsk 2252 846 1336 2686 Arkalyk 1912 775 1224 2464 3130 Atyrau 2675 986 1558 Balkhash 873 368 588 1186 Zhambul 543 254 488 826 Zhezkazoan 1374 545 865 1741 Karaganda 1077 440 700 1408 Kzyl-Orda 1219 510 818 1639 Kokshetau 1514 651 2874 1231 Kustanai 2025 775 1225 2464 1793 794 Pavlodar 2241 1114 Patropavlovsk 1899 704 1114 2241 Semipalatinsk 1034 440 700 1408 Taldykorgan 347 183 298 603 2711 Uralsk 1957 1668 3352 Shinkent 334 755 534 1976

Regression Analysis for Railway Tariff(1)

-- Reserved -Regression Output Constant 65.1 Std Err of Y Est 19.7 R Squared 0.995334 No. of Observation 18 Degree of Freedom 16 X Coefficient 8.357862 Std Err of Coef. 8.086126

TREFRURS = 65.1 + 0.3579 x DIST(km)

Regression Analysis for Rallway Tariff(2)

-- Compartment -
Regression Output(1.1)

Constant
Std Err of Y Est 58.17361078
R Squared 8.982421341
No. of Observation 18
Degree of Freedom 17

X Coefficient 0.619092607
Std Err of Coef. 3.007845735

IRFRICHP =  $112.8 + 0.5613 \times DIST(km)$ 

Regression Analysis for Railway Tariff(2)

-- Compartment Regression Output(1.2) Constant 112.8 30.6789265 Std Err of Y Est R Squered 8.995401051 No. of Observation 18 Degree of Freedom 16 X Coefficient 0.561334 Std Err of Coef. 8.009539

IRFRLCHP = 112.8 + 0.5613 x DIST(km)

Regression Analysis for Railway Teriff(3)

-- Sleeping car --Ragrassion Output Constant 238.4 Std Err of Y Est 61.82779663 R Squered 0.995356 No. of Observation 18 Degree of Freedom 16 X Coefficient 1.126975 Std Err of Coef. 0.019229

IRFRESE = 238.4 + 1.126) x DIST(km)

Appendix-3.3.4 (17) Formulation of Cost Estimate Model for Bus Passengers

8us Tariff (Tenga) (Rvallable since 13.07.1995) From Rimaty to: Distance Tariff (Tenga)										
From Himsty to:	(km)	soft	Hard							
Abai	853	1044	870							
Rkbakai	584	714	598							
Algabas	884	1020	851							
Akkul	685	748	617							
Aksu-Aulv	929	1137	948							
Akausuck	296	362	902							
Ackehatau	818	1991	834							
Akchi	148	172	1 4 3							
Aky1-Toba	468	584	469							
Rhanevo	555	680	\$65							
Amangeldy	489	500	417							
Aosa	548	679	559							
Balkhash	657	838	638							
Baital	523	640	533							
8aikadam	686	849	760							
Berlik	389	466	388							
Chiskont	994	1894	913							
Berikol	583	714	595							
Bishkok	538	292	243							
Blogovesh	261	328	266							
Burubaitai	355	435	366							
Burhae	595	728	607							
Balye Vody	682	834	696							
Balykahi	422	516 776	436							
Ualnovka	634		647 188							
Gbardoiskii	177	216	1 186							
Georgibka	598	254 662	552							
Grigoreyka	541	632	526							
Zhambul	516 957	1172	976							
Zhetysai		878	724							
Zhanatas	710	214	1 179							
Zhaimes	175 935	1144	954							
Hych	638	772	643							
llyich	1447	1772	1476							
Kalkaman	1059	1298	1086							
Karaganda Karabalta	311	380	317							
Karaboget	509	624	519							
Karaboget Karakemir	558	682	569							
Karatau	632	774	649							
Kenes	236	288	241							
Kenes	259	318	26.							
Kantau	915	1120	933							
Kuyahty	466	578	475							
Kishmish	259	318	264							
Konshengel	197	283	236							
Karasnoporka	181	222	189							
Kum-Ozek	495	686	509							
Kordai	168	206	171							
Karakot	642	786	659							
Leninskoe	784	962	800							
tugovoe	486	496	414							
naitoba	694	740	616							
Masanchi	279	341	288							
Kynkaly Halył	687	742	628							
rierke	366	448	37							
Hirhyi	478	586	486							
nichelors	589	624	519							
Molodezhna	1188	1444	124							
Hynaral	128	524	430							
Neuely	813	996	836							
St. Oter	183	224	166							
Otaraki	159	194	163							
Paylodar	1529	1872	1560							
Priozersk	533	652	644 176							
Roslayl	167	284	55							
Sary-Shagan	544	666								
Same	74	98	861							
Sary-Agash	831	1018	53							
Selpo	527	645	1919							
Slavyanka	991	1	101							
Suzak	995 968	1218 1184	981							
Syzgan	958	116	90							
Targan	1 33	1 (10	3.							
Taskumya	864	1858	883							

## Formulation of Cost Estimate Model for Bus Passengers

Bus Tariff (Tenge)	(Availab	le since 13.	97.1995)
From Almaty to:	Distance	Tariff ()	(enge)
	(km)	Soft	Hard
Turkestan	878	1074	896
Taldy-Ozek	452	554	462
Tashkont	868	1852	878
Tokask	276	338	282
Tokmak	312	382	318
Tortkol	807	988	824
Ulan-8el	650	796	664
Ulkan	484	494	412
Uspanovka	236	288	240
Furmanovka	443	542	452
Kantau	499	500	417
Chayan	814	996	839
Chardara	948	1160	966
Chimkent	713	872	728
Cherhaya Rechka	238	282	234
Shildastau	146	178	148
Shignac	376	460	384
Cholpan Ata	595	618	516
Shotak Korgan	982	1184	928
Chu	358	392	326
Shiderty	1929	1626	1350
Shortobe	269	328	274

Regression Analysis for Bus Tariff(1)

Sort	
Regression Output	
Constant	4.8
Std Err of Y Est	14.76340874
R Squared	9.998455
No. of Observation	98
Degree of Freedom	96
X Coefficient	1.214835
Std Err of Coef.	9.884877

TRESSET = 4.0 + 1.2148 x DIST(km)

Regression Analysis for Bus Tariff(2)
-- Hard --

Regression Output	
Constant	2.7
Std Err of Y Est	16.7113485
R Squared	0.997172
No. of Observation	98
Degree of Freedom	96
X Coefficient	1.015636
Std Err of Coef.	0.005520

TREBSHD = 2.7 + 1.0156 x DIST(km)

Appendix-3,3.4 (18) Trip Time and Trip Cost by Zone OD Pair

Zone	Pair	Rail	LISTI .	· ·	١. ٥	l ai	7	r- 7	. 8	81	15
(1)	(1)	Time	Cost	} <u>`</u>	<u>'                                    </u>	Time	Cost	<u>`</u>		Time	Cost
1	1	2.82	8.69	8	ē	2.14	12.74	0	9	1.85	1.39
2	i	46.93	31.37	e	0	4.76	82.28	0	9	44.95	32.88
3	1	38.31	26.83	9	0	4,24	68.37	8	9	37.05	27.85
4	1	18.55	13.79	8	9	2.95	34.25	0	8	16.92	12.37
\$	1	34.45	23.64	9	0	3.94	60.42	8	8	30.18	22.48
8	1	46.82	38.61	9	8	4.75	81.95	9	8	43.68	31.88
7	1 1	22.55	16.27	9	8	3.18	38.24	8	8	15.78	11.54 8.35
6 9	i	12.35 9.24	9.95 8.02	8	e	2.84 2.74	31.28 28.63	ě	e	8.53	6.26
10		22.64	16.32	8	e	3.28	48.89	ő	ĕ	20.57	15.83
lii	l i	17.18	12.95	ě	ě	3.88	37.57	ě	lě	18.50	13.52
12	l i	28.05	19.68	ě	ē	3.56	50.49	0	ě	25.53	18.65
13	l i	31.91	22,87	ä	9	3.33	44.23	8	e	23.98	17.48
14	i	31.24	21.65	- 8	Ø.	3.56	58.49	8	0	28.45	20.78
15	1 1	25.25	17.95	9	8	3.18	40.22	8	0	18.80	13.74
16	1	23.29	16.73	9	0	3.25	42.21	Ø,	10	25.68	18.76
17	1	34.16	23.46	8	8	3.66	53.14	0	0	30.78	22.48
18	[ 1	55.87	36.91	8	8	4.73	81.28	0	0	52.13	38,04
19	1 1	6.31	2.15	8	8	2.36	18.70	0	0	4.18	3.83
20	1	71.24 84.33	46.42 54.53	8	9	6.89 6.74	117.38 134.68	8	8	65,12 77,12	47.59 56.25
22	1	20.53	15.02	8	9	3,18	38.24	8	8	18.57	13.57
23	i	22.73	16.38	ĕ	อ	3.16	39.89	8	8	18.88	13.74
24	i	8.88	0.80	ě	ø	5.06	90.23	ø	8	53.80	39.25
2	2	2.42	0.82	8	0	2.17	13.47	0	9	2.22	1.66
3	2	8.62	7.64	8	8	2.51	22.67	0	8	7.98	5.80
4	2	37.71	25.66	8	0	2.14	12.74	. 0	9	35.65	26,83
5	2	20.96	15.29	8	0	3.20	48.89	. 6	0	28.48	14.91
6	5	19.42	14.33	0	8	2.56	24.80	8	8	8.43	6.19
7	5	52.98	35.12	9	0	4.69	80.29	8	9	50.58	36.91
8	5	34.58	23.72 25.65	9	8	4.89 4.18	64.48 66.71	8	9	33.57 36.42	24.51
18	5	37.69 33.62	23.13	0	8	3.71	54.46	8	ě	32.88	23.36
l ii l	. 5	51.25	34.85	ě	8	4.46	74.33	8	ĕ	45.97	33,55
12	2	31.97	21.55	ě	9	3.71	54.46	ē	ĕ	27.12	19.81
13	5	42.89	28.87	Ø	9	4.15	66.85	0	ē	48.58	29.56
14	5	34.25	23.52	8	8	3.53	49.50	8	8	27.72	28.24
15	5	21.67	15.73	8	8	3.56	58.49	8	8	26.15	19.10
16	5	47.18	31.53	. 8	0	3.51	49.16	8	8	33.07	24.14
17	2	30.53	21.21	. 6	0	3,34	44.53	6	6	22.20	16.22
18	5	29.27	20.43	8	8	3.03	36.25	8	0	21.65	15.82
19	5	53.24	35.28	8	8	4.91	86.25	8	8	49.87	35.88
20	5	21.82 34.91	15.82	8	8	3.34 4.19	44.53 67.85	8	ě	32.08	14.62
25	2	42.76	28.79	8	ě	4.35	71.35	ě	ĕ	40.73	29.73
23	. 5	20.51	15.01	8	ě	5.63	105.13	ě	ěl	63.75	46.51
24	: 2	8.88	8.00	B	8	6.94	139.98	ě	ĕ	98.75	72.82
3	3	3,40	1.16	0	ě	2.23	15,26	ē	ē	3.12	2.31
4	3	29.09	20.32	13	6	3.54	49,83	ø	0	27.75	20.27
5	3	12.35	9.95	8	.8	2.69	27.31	0	0	12.58	9.15
6	. 3	18.80	8.99	8	8	2.76	29.38	0	8	9.98	7.26
7	3	44.36	29.78	8	8	4.21	67.71	0	9	48.77	35.59
8	3	25.96	18.38	8	8	3.63	52.14 53.14	8	8	25.65	18.74 20.81
9 18	3	29.07 25.80	20.31 17.79	9	8	3,66 3.38	43.53	8	8	28.50 24.10	17.61
11	3	42.64	28.71	9	8	4.88	62.88	ĕ	ß [	38,85	27.77
12	3	22.45	16.21	ล	· e	3.26	40.89	ĕ	ĕ	19,22	14.85
13	3	34.27	23.53	a	ē	3.84	57.77	ĕ	ĕļ	35.60	23.88
14	3	25.64	18.18	9	8	3,21	41.22	ē	ē	19.80	14.47
15	3	17.89	13.38	0	8	3.86	37.24	0	8 [	18.25	13.34
16	3	38.56	26.19	9	. 8	3.05	36.91	0	0	25,15	18,37
17	3	21.91	15.87	0	8	2.98	32.94	8	8	14.28	10.45
18	3	20.65	15.10	9	8	3.18	38.24	8	8	18.50	13.52
19 20	3	44.62	29.94	8	8	4.08	64.87	0	8	41.15	30.03
21	3	32.73 34.91	22.57 23.92	อ อ	9 0	3.86 4.68	58.44 79.96	8	8	30.00   32.00	21.91
55	. 3	34.15	23.45	9	8	3.85	58.10	ë	8	32.82	23.30
53	3	61.04	48.11	ä	ย	5.89	90.89	ĕ	ě	55.85	40.75
24	3	0.08	0.88	8	ě	6,51	128.64	` ĕ	ē	90.85	66.26
4	4	2.11	8.72	8	9	2.14	12.90	8	2	1.93	1.45
5	4_]	16.96	12.81	8_	8	2,99	35.26	. 0	<u>e }</u>	18.87	13.79

Trip Time and Trip Cost by Zone OD Pair

٠	<del>-</del>				,		r		т—			
	Zone (1)	Pair (1)	Rai l	way   Cost	<del> </del> '	7.8	Time	Cost	<del> </del>	n.a	Time	os Cost
}~~	6	4	36.80	25.10	e	1 0	4.30	70.93	Ø	10	40.47	29.54
1	7	4	23.27	16,72	B	8	3.38	45.52	0	9	14.93	10.92
	8	4	18.35	13.67	8	8	3.39	45.85	9	0	22.98	16.19
1	9	4	15.24	11.74	9	8	3.16	39.89	9	0	18.38	13.44
1	10	4	4.89	1.39	9	8	2.25 2.64	15.72	8	9	3,65	2.70 7.55
1	12	4	9.51	8.19	9	l ő	2.56	24.00	lě	l ĕ	8.62	6.32
1	13	4	13.36	18.58	8	lě	2.48	21.68	ě	8	6.98	5.13
•	14	4	12.69	10.16	В	8	2.76	29.30	8	8	11.53	8.45
1	15	4	26.42	18.67	9	9	2.99	35.26	9	8	15.58	11.40
	16	4	9.47	8.17	9	0	2.58	24.33	0	0	8.68	6.37
1	17	4	15.69	12.62	8	0	2.63	25.65	0	8	8.68 48.92	6.37
1	18 19	4	46.65 24.85	31.20 17.70	8	8	4.24 2.82	68.37	8	lő	19.98	35.78 14.61
1	28	4	52.69	34.94	Ιĕ	ě	5.13	91.88	l ĕ	ě	48.20	35.17
j i	21	4	65.78	43.05	ě	ø	5.80	199.76	lě	e	60.20	43.92
1	55	. 4	28.53	18.73	e	0	3.63	52.14	8	0	30.15	22.82
i i	23	4	28.91	20.21	8	0	3.71	54.46	8	P	24.33	17.78
	54	4	8.88	0.00	8	B	5.14	92.21	8	0	59.33	43.29
	5 6	5 5	2.89 20.85	0.71 14.72	8	8	2.14 3.45	12.87	0	8	1.92	1.44
1	7	5	31.27	21.67	้อ	ő	3.45	58.10	ø	l ő	30.48	22,28
1	8	5	35.22	24.12	ě	ě	3.64	52.48	ě	lě	26.68	19.49
	9	5	38.33	26.04	8	В	3.58	58.82	Ø	8	22.25	16.26
i	10	5	12.87	10.28	0	8	2.78	27.64	0	8	11.18	8.19
1	11	5	30.51	21.20	В	9	3.45	47.51	0	8	29.17	21.30
1 .	12	5 5	7.45 16.73	6.92	9	8	2.46	21.35 38.24	8	8	6.72	4.94
1	14	5	18.64	12.66 8.89	8	8	3.18 2.58	22.34	8	8	19.68 7.38	14.39 5.36
	i5	5	22.31	16.12	8	ě	3.14	39,23	ě	ě	19.28	14.18
ŀ	16	5	26.44	18.68	8	8	2.83	30.95	8	a	12.38	9.87
	17	5	10.53	8.82	8	0 (	2.49	22.01	8	0	7.28	5.35
1	18	5	29.91	20.83	8	0	3.79	56.45	8	8	31.88	22.64
1	19	5	48.76	27.55	6	. 0	3.73	54.79	0	0	38.85	28.36
	21	5 5	36.36 49.45	24.83 32.93	8	8	4.24 4.85	68.37 84.69	0 8	0	33.33 45.33	24,34 33,88
l	22	5	43.48	29.18	ě	8	4.80	62.88	8	ø	33.85	24.71
1	23	5	45.87	38.71	ě	ē	4.68	79.98	ē	8	43.28	31.53
	24	5	0.00	0.00	8	0	5.89	112.68	0	8	78.20	57.94
l	6	. 6	2.15	0.73	8	0	2.15	12.97	0	- 0	1.97	1.47
	7 8	6 6	51.33	34.09	0	8	5.35	97.84	8	9 9	55.40	49.42
	ů l	ő	33.67 36.78	23.16   25.88	0	8	3.88 3.98	58.77 61.42	8	9	32.28 35.15	23.57
	18	š	32.71	22.56	ě	ě l	3.81	57.11	a	ő	34.00	24.82
l	11	6	50.35	33,49	0	0	4,58	77.31	0	8	58.77	37.84
1	12	. 6	38.16	28.99	9	0	3.73	54.79	0	. 6	29.12	21.26
	13	6	41.98	28.31	8	0	4.30	76.83	9	0	42.50	31.02
1	14 15	- 6 - 6	33.35 20.76	22.96 15.16	0	8	3.81	57.11	8	9	29.76	21.69
	16	ő	46.27	38.96	8	8	3.58 3.46	50.82 47.84	8	ő	24.88	23.21
Į.	17	6	29.62	20.65	ě	ě	3.41	46.51	ě	ě	24.18	17.67
	18	6	14.51	11.29	0	0	2.46	21.35	0	e	13.83	10.12
1	19	6	52.33	34.71	อ	0	4.54	76.32	0	0	47.78	34,87
	28	6	43.53	29.26	9	8	3.98	59.43	8	8	39.98	29.12
	21	6 6	56.62 41.85	37.37	8	8	4.75 3.95	81.95 60.75	8	8	51.98 39.45	37.87 28.80
	23	6	68.75	44.88	8	ě	5.55	103.14	ě	e	62.48	45.58
	24	6	0.80	8.88	8	8	7.11	144.53	8	e	97.48	71.18
	7	7	1.95	10.66	8	0	2.13	12.61	0	8	1.78	1.34
	8	?	34.89	23.91	9	0	3.63	52.14	0	: 8	27.18	19.85
	9 10	7	31.78	21.99	0	9	3,44	47.18	0	8	24.33	17,78
	13	7	19.18 5.36	14.18	8 8	8	2.99	35.28 23.88	8	8	18.43	3,42
	15	7	24.68	17.54	9	ĕ	3.34	44.53	0	0	23.55	17.21
	13	7	9.91	8.44	ě	ě	2.59	24.66	ø	8	9,93	7.28
ļ	14	7	27.78	19.51	8	8	3.29	43.28	0	Ø	26.47	19.33
	15	7	37.60	25.59	8	8	3.59	51.15	8	9	30,52	22.28
	16	7	32.75	22.58	8	9	3.38	45.52	8	8	23.62	17.25
	17	7	30.78 61.93	21.37 40.66	9	9	3.38 5.84	45.52 89.56	8	9	37.40 63.85	27.38 46.58
	19	7	19.55	14.41	ě	ø	2.79	29.96	ě	ø	13.68	9.95
	28	7	67.78	44.28	ě	ő	5.89	112.08	ø	ĕ	63.13	46.86
	21	7	80.87	52.39	8	8	6.51	128.64	0	8	75.13	54.88
	22	?	43.07	28.98	0	8	4.21	67.71	9	В	34.35	25.88
	23	. ?	26.45	18.69 [	0	8	3.60	35.59	<u> </u>	8	24.43	17.85

Trip Time and Trip Cost by Zone OD Pair

		Da.14	Dati			. 5	AI	<u> </u>	n	. 0	Bu	3
8 0 .00 0.00 0.00 0 0 0 0 0 0 0 0 0 0 0						·		Cost			Time	Cost
9 8 3.11 1.06 0 8 2.28 16.38 9 0 2.28 2.15 12.94 9 0 1.95 1.46 9 9 8 3.11 1.06 0 8 2.2.44 16.28 0 0 3.36 45.19 0 0 24.88 18.18 11 2 9 27.85 19.56 0 8 3.51 48.18 0 0 21.08 21.08 11 2 9 27.85 19.56 0 8 3.51 48.18 0 0 22.08 21.08 11 3 3 1.71 2.94 0 0 2.38 21.08 11 3 3 1.71 2.94 0 0 2.38 18.18 12 9 27.85 19.56 0 8 3.51 48.18 0 0 28.08 21.08 11 44 8 31.04 21.03 0 0 2.71 52.40 0 0 28.08 21.08 11 5 8 42.24 21.03 0 0 0 2.71 52.34 0 0 0 28.05 21.08 11 5 8 42.24 21.03 3 0 0 2.71 52.34 0 0 0 28.05 21.08 11 5 8 42.24 21.03 3 0 0 2.71 52.34 0 0 0 28.05 21.08 11 5 8 42.24 21.03 3 0 0 2.71 52.34 0 0 0 18.05 21.08 11 5 8 42.24 21.03 3 0 0 2.71 52.34 0 0 0 18.05 21.08 11 5 8 42.24 21.03 3 0 0 2.71 52.34 10 0 0 18.05 21.08 11 5 8 42.24 21.03 3 0 0 2.71 52.34 10 0 0 15.58 11 1.34 21.02 2.55 0 0 4.66 63.73 0 0 45.25 10 1.34 11 2 2 2.55 0 0 4.66 63.73 0 0 4.57 22.25 6 40.60 21 2 8 71.76 45.76 0 0 6.20 122.36 0 0 67.65 40.60 21 8 71.76 45.76 10 2 2 2 8 5.18 7.77 0 0 2.49 22.11 2 0 0 5.56 40.60 2 2 2 8 5.18 7.73 0 0 2.49 22.11 2 0 0 7.55 6 40.60 2 2 2 8 5.18 7.73 0 0 2.49 22.11 2 0 0 7.75 5.25 6 40.60 2 2 2 8 5.18 7.37 0 0 2.49 22.11 2 0 0 7.75 5.25 10 2 2 2 8 5.18 7.73 0 0 2.49 22.11 2 0 0 7.75 5.25 10 2 2 2 9 2 2 2 2 0 0 0 2.11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					9	e	5.80	189.76	8	8		43.36
10									8	8	1.95	1.46
10					a	8	2.28	16.38	9	0	2.85	2.12
1							3.36	45.19	9	9	24.88	
12						e	3.59	48.83	8	9	29.98	21.83
13								49.16	8	8	31.68	23.07
14						8		56.78	9	. 8	29.97	21.88
15					9	8	3.71	54.46	9	0	30.35	22.16
18					9	ė	2.53	23.88	9	9	7.48	5.43
17		-						29.95	8	0	14.39	10.46
19									8	9	19.48	14.18
19					à			63.73	8	0	48.73	29.73
29			-						19	8	15.58	11.34
21									8	8	55.65	48.68
22						ø	6.28		8	8	67.65	49.35
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24 9 0.88 0.89 0 0 4.29 69.89 0 8 53.53 39.86 0 9 2.38 0.89 0 9 2.16 13.37 0 9 2.17 1.82 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										9		13.55
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22   9   11.29   9.36   0   0   2.66   26.98   0   0   10.02   7.34     23   9   32.69   22.55   8   9   3.71   54.46   8   0   27.33   19.96     24   9   0.00   0.00   8   0   5.59   104.13   0   0   62.33   45.47     10   18   1.89   0.64   0   8   2.13   12.51   8   8   1.73   1.30     11   10   17.64   13.23   0   0   2.76   29.30   0   0   13.80   16.10     12   10   5.42   1.84   0   0   2.33   17.71   0   0   4.97   3.66     13   10   9.27   8.65   0   0   2.51   22.67   8   0   7.86   5.79     15   10   30.51   21.20   0   0   3.03   36.25   0   0   19.23   14.86     16   10   13.56   10.70   0   0   2.55   23.34   0   0   7.86   5.79     15   10   30.51   21.20   0   0   3.03   36.25   0   0   19.23   14.86     16   10   13.56   10.70   0   0   2.55   23.67   0   0   11.98   8.12     18   10   42.56   28.67   0   0   4.13   65.39   0   3   44.77   32.67     19   10   28.44   18.68   0   0   2.55   23.67   0   0   41.98   8.12     20   10   48.60   32.40   0   0   3.05   36.91   0   0   24.67   18.62     21   18   61.69   40.51   0   0   5.60   104.46   0   0   65.55   24.33     12   13   33.00   22.74   0   0   3.71   54.46   0   0   32.85   23.40     23   10   33.00   22.74   0   0   3.71   54.46   0   0   22.98   23.40     24   10   8.00   8.00   8.00   6   2.39   19.36   0   0   2.55   23.67     11   11   2.67   0.91   0   0   2.18   13.93   0   0   24.67   13.83     12   11   23.05   16.58   0   0   3.44   47.18   0   0   48.92   3.85     15   11   41.40   0   2.39   19.36   0   0   2.59   23.40     15   11   44.40   29.59   0   0   3.44   46.51   0   0   25.98   18.91     15   11   44.14   79.33   51.43   0   0   63.44   47.40   0   0   56.55   41.26     19   11   44.40   22.59   0   0   3.44   46.51   0   0   25.98   18.91     15   11   41.18   10.09   0   0   0   0   0   0   0   0   0						_						
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14         10         8.68         7.63         8         8         2.54         23.34         8         0         7.86         5.79           15         10         30.51         21.28         0         0         3.83         36.25         0         8         19.23         14.86           16         10         13.56         10.70         0         8         2.58         24.33         8         8         12.33         9.83           17         10         26.44         18.68         0         8         2.55         23.67         0         0         11.08         3.12           18         10         42.56         28.67         0         8         4.13         65.39         8         0         44.77         32.67           19         10         28.95         20.23         0         3.65         36.91         0         24.67         19.82           20         10         48.68         32.40         0         5.56         144.46         0         24.57         19.02           21         10         33.60         22.127         0         3.71         54.46         0         22.96         20.44 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						_						
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18         10         42.56         28.67         0         0         4.13         65.39         0         0         44.77         32.67           19         10         28.95         20.23         0         0         3.05         36.91         0         0         24.67         18.02           20         10         48.68         32.40         0         0         48.98         35.59         0         0         44.55         32.51           21         18         61.69         48.51         0         0         5.60         104.46         0         0         56.55         41.26           22         18         38.62         21.27         0         0         3.71         54.46         0         0         27.98         20.44           24         10         0.00         0.80         0         5.24         94.86         0         62.98         45.95           11         11         2.67         0.91         0         0         2.18         13.93         0         6         2.45         1.89           12         11         2.67         0.91         0         0         3.41         46.18												
19 10 28.95 20.23 0 0 3.85 36.91 0 8 24.67 18.02 20 10 48.68 32.40 0 0 4.89 85.59 0 0 44.55 32.51 18 61.69 40.51 0 0 5.60 184.46 0 0 56.55 41.26 22 18 38.62 21.27 0 0 3.71 54.46 0 0 32.85 23.40 23 10 33.80 22.74 8 0 3.91 59.76 0 8 27.98 20.44 24 10 0.00 0.80 0 0 5.24 94.66 0 0 8 27.98 20.44 24 10 0.00 0.80 0 0 5.24 94.66 0 0 8 62.98 45.95 11 11 23.85 16.58 0 0 3.44 47.18 0 0 2.45 1.83 12 11 23.85 16.58 0 0 3.44 47.18 0 0 18.92 13.83 13 11 9.91 8.44 0 0 2.39 19.36 0 5.30 3.90 14 11 26.24 18.55 0 0 3.41 46.51 0 0 25.08 18.91 16 11 31.20 21.63 0 0 3.41 46.51 0 0 25.08 18.91 16 11 42.44 28.59 0 0 3.41 46.51 0 0 25.08 18.91 16 11 44.44 29.59 0 0 3.41 46.51 0 0 25.08 18.91 16 11 44.48 29.60 0 0 4.73 61.28 0 0 18.98 13.88 18 11 60.26 39.59 0 0 4.73 61.28 0 0 56.55 41.26 19 11 14.18 11.09 0 0 2.76 29.30 0 0 18.98 13.88 18 11 60.26 43.33 0 0 5.96 114.07 0 0 556.55 41.26 19 11 14.18 11.09 0 0 0.00 0 0.00 0 0 0 0 0 0 0 0 0 0					_							
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14         11         26.24         18.55         8         8         3.40         46.18         8         0         21.83         15.95           15         11         42.44         28.59         0         8         3.41         46.51         0         0         25.88         18.91           16         11         31.28         21.63         0         8         3.18         40.39         0         0         18.98         13.88           17         11         44.87         29.60         8         8         3.16         39.89         0         0         18.98         13.88           18         11         60.20         39.59         8         0         4.73         81.28         0         56.55         41.26           19         11         14.18         11.09         0         0         2.76         29.30         0         0         14.40         10.54           20         11         66.24         43.33         0         5.96         11.407         0         0         56.50         42.68           21         11         79.33         51.43         0         6.34         124.60         0 <td></td> <td>1</td> <td></td>		1										
15         11         42.44         28.59         0         8         3.41         46.51         8         9         25.98         18.91           16         11         31.28         21.63         3         8         3.18         40.39         8         0         18.98         13.88           17         11         44.07         29.60         8         8         3.16         39.89         0         0         18.98         13.88           18         11         68.20         39.59         8         8         4.73         81.28         8         9         56.55         41.26           19         11         14.18         11.09         0         0         2.76         29.30         0         0         14.40         10.54           20         11         66.24         43.33         0         0         5.96         114.07         0         0         58.50         42.68           21         11         79.33         51.43         0         0         6.34         124.00         0         8         70.50         51.43           22         11         37.71         25.66         0         4.03										_		
16         11         31.28         21.63         3         8         3.18         48.39         8         68.98         13.88           17         11         44.87         29.60         8         8         3.16         39.89         8         18.98         13.88           18         11         68.28         39.59         8         8         4.73         81.28         8         9         56.55         41.26           19         11         14.18         11.09         0         0         2.76         29.30         0         0         14.40         10.54           20         11         66.24         43.33         0         0         5.96         114.07         0         0         58.50         42.68           21         11         79.33         51.43         0         0         6.34         124.00         0         8         70.50         51.43           22         11         37.71         25.66         0         0         4.03         62.74         0         0         37.07         27.06           23         11         21.09         15.37         0         3.20         40.89         0 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>					_	_				_		
17         11         44.87         29.60         3         8         3.16         39.89         8         18.98         13.88           18         11         60.20         39.59         8         8         4.73         81.28         8         8         56.55         41.26           19         11         14.18         11.09         0         2.76         29.30         0         0         14.40         10.54           20         11         66.24         43.33         0         8         5.96         114.67         0         8         58.50         42.68           21         11         79.33         51.43         0         6.34         124.00         0         8         70.50         51.43           22         11         37.71         25.66         0         4.03         62.74         0         8         37.87         27.06           23         11         21.09         15.37         0         0         3.20         40.89         0         19.80         14.47           24         11         0.00         0.08         0         4.49         74.99         0         54.89         14.47												
18         11         68.28         39.59         8         8         4.73         81.28         8         9         56.55         41.26           19         11         14.18         11.09         0         8         2.76         29.38         0         0         14.40         10.54           20         11         66.24         43.33         0         0         5.96         114.07         0         0         58.58         42.68           21         11         79.33         51.43         0         0         6.34         124.00         0         8         70.50         51.43           22         11         37.71         25.66         8         0         4.03         62.74         0         0         37.07         27.06           23         11         21.09         15.37         0         0         3.20         40.89         0         0         54.80         39.96           12         12         1.75         0.59         0         0         2.12         12.24         0         0         1.64         0         0         2.64         25.98         0         0         13.47         9.86 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						1						
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21         11         79.33         51.43         0         0         6.34         124.00         0         8         70.58         51.43           22         11         37.71         25.66         8         0         4.03         62.74         0         8         37.07         27.06           23         11         21.09         15.37         0         0         3.28         40.89         0         8         19.88         14.47           24         11         0.00         0.08         0         0         4.49         74.99         0         54.80         39.96           12         12         1.75         0.59         0         0         2.12         12.24         0         1.60         1.21           13         12         14.69         11.40         0         0         2.64         25.98         0         0         13.47         9.86           14         12         3.18         1.88         0         2.24         15.39         0         0         2.92         2.17           15         12         32.42         22.38         0         0         2.72         29.30         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
22         11         37,71         25.66         8         0         4.03         62.74         0         8         37.87         27.06           23         11         21.09         15.37         0         0         3.20         40.89         0         8         19.80         14.47           24         11         0.00         0.08         0         0         4.49         74.99         0         0         54.80         39.96           12         12         1.75         0.59         0         0         2.12         12.24         8         0         1.60         1.21           13         12         14.69         11.40         0         0         2.64         25.98         0         0         13.47         9.66           14         12         3.18         1.88         8         8         2.24         15.39         8         0         2.92         2.17           15         12         32.42         22.38         0         8         3.20         40.89         0         24.20         17.68           16         12         18.96         14.66         0         0         2.16         29.									1 -			
23         11         21.09         15.37         0         0         3.20         40.89         0         0         19.88         14.47           24         11         0.00         0.08         0         0         4.49         74.99         0         0         54.80         39.96           12         1.75         0.59         0         0         2.12         12.24         0         0         1.60         1.21           13         12         14.69         11.40         0         0         2.64         25.98         0         0         13.47         9.86           14         12         3.18         1.88         8         8         2.24         15.39         8         0         2.92         2.17           15         12         32.42         22.38         0         8         3.20         46.89         3         0         24.20         17.68           16         12         18.96         14.06         0         0         2.76         29.30         0         0         17.30         12.65           17         12         31.85         22.03         0         0         2.46         21.3												
24         11         0.00         0.08         0         4.49         74.99         0         0         54.80         39.96           12         12         1.75         0.59         0         0         2.12         12.24         0         1.60         1.21           13         12         14.69         11.40         0         0         2.64         25.98         0         0         13.47         9.86           14         12         3.18         1.08         0         0         2.64         25.98         0         0         13.47         9.86           14         12         3.18         1.08         0         2.24         15.39         0         0         2.92         2.17           15         12         32.42         22.38         0         0         3.20         40.89         0         0         24.20         17.68           16         12         18.96         14.06         0         0         2.76         29.30         0         0         17.30         12.65           17         12         31.85         22.03         0         0         2.46         21.35         0         0<												
12     12     1.75     0.59     0     0     2.12     12.24     8     0     1.60     1.21       13     12     14.69     11.40     0     0     2.64     25.98     0     0     13.47     9.86       14     12     3.18     1.88     0     0     2.24     15.39     0     0     2.92     2.17       15     12     32.42     22.38     0     0     3.28     40.89     3     0     24.20     17.68       16     12     18.96     14.66     0     0     0     2.76     29.30     0     0     17.30     12.65       17     12     31.85     22.03     0     0     2.46     21.35     0     0     17.30     12.65       18     12     40.02     27.09     0     0     4.74     81.62     0     0     37.72     27.53       19     12     34.36     23.59     8     0     3.39     45.85     0     8     39.58     28.89       20     12     43.18     29.05     0     0     4.65     79.36     0     8     39.58     28.89       21     12     56.27												
13         12         14.69         11.40         0         0         2.64         25.98         0         0         13.47         9.86           14         12         3.18         1.88         0         0         2.24         15.39         0         0         2.92         2.17           15         12         32.42         22.38         0         0         3.28         40.89         0         0         24.20         17.60           16         12         18.96         14.06         0         0         2.76         29.38         0         0         17.30         12.65           17         12         31.85         22.03         0         0         2.46         21.35         0         0         6.72         4.94           18         12         40.02         27.99         0         0         4.14         81.62         0         0         37.72         27.53           19         12         34.36         23.59         0         0         3.39         45.85         0         0         37.72         27.53           20         12         43.18         29.05         0         0         4.												
14         12         3.18         1.88         8         8         2.24         15.39         8         0         2.92         2.17           15         12         32.42         22.38         0         8         3.28         40.89         0         0         24.20         17.68           16         12         18.96         14.66         0         0         2.16         29.38         0         0         17.30         12.65           17         12         31.85         22.03         0         0         2.46         21.35         0         0         6.72         4.94           18         12         40.02         27.09         0         0         4.14         81.62         0         0         37.72         27.53           19         12         34.36         23.59         0         0         3.39         45.85         0         0         31.52         23.01           20         12         43.18         29.05         0         4.65         79.36         0         0         39.58         28.89           21         12         36.27         37.16         0         5.28         95.85											1.60	
15         12         32.42         22.38         0         0         3.28         48.89         8         0         24.20         17.68           16         12         18.96         14.06         0         0         2.16         29.38         0         0         17.30         12.65           17         12         31.85         22.03         0         0         2.46         21.35         0         0         6.72         4.94           18         12         40.02         27.09         0         0         4.74         81.62         0         0         37.72         27.53           19         12         34.36         23.59         8         0         3.39         45.85         0         0         31.52         23.01           20         12         43.18         29.05         0         0         4.65         79.36         0         8         39.58         28.89           21         12         56.27         37.16         0         0         5.28         95.85         0         0         51.58         37.64           22         12         36.94         24.62         0         0         <												
16     12     18.96     14.06     0     0     2.76     29.30     0     0     17.30     12.65       17     12     31.85     22.03     0     0     2.46     21.35     0     0     6.72     4.94       18     12     40.02     27.09     0     0     4.74     81.62     0     0     37.72     27.53       19     12     34.36     23.59     0     0     3.39     45.85     0     0     31.52     23.01       20     12     43.18     29.05     0     0     4.65     79.36     0     0     39.58     28.89       21     12     56.27     37.16     0     0     5.28     95.85     0     0     51.58     37.64       22     12     36.04     24.62     0     0     4.09     64.40     0     0     38.77     28.30												
17     12     31.85     22.03     0     0     2.46     21.35     0     0     6.72     4.94       18     12     40.02     27.09     0     0     4.74     81.62     0     0     37.72     27.53       19     12     34.36     23.59     8     0     3.39     45.85     0     0     31.52     23.01       20     12     43.18     29.05     0     0     4.65     79.36     0     0     39.58     28.89       21     12     56.27     37.16     0     0     5.28     95.85     0     0     51.58     37.64       22     12     36.04     24.62     0     0     4.09     64.40     0     0     30.77     28.30					1							
18     12     49.02     27.99     0     0     4.74     81.62     0     0     37.72     27.53       19     12     34.36     23.59     8     0     3.39     45.85     0     8     31.52     23.01       20     12     43.18     29.05     8     0     4.65     79.36     0     8     39.58     28.89       21     12     56.27     37.16     8     0     5.28     95.85     0     8     51.58     37.64       22     12     36.94     24.62     0     0     4.09     64.40     0     8     38.77     28.30					ł							
19 12 34.36 23.59 8 0 3.39 45.85 0 8 31.52 23.01 20 12 43.18 29.05 8 0 4.65 79.36 0 8 39.58 28.89 21 12 56.27 37.16 8 0 5.28 95.85 0 8 51.58 37.64 22 12 36.84 24.62 8 0 4.09 64.40 0 8 38.77 28.30												
20 12 43.18 29.05 0 0 4.65 79.36 0 0 39.58 28.89 21 12 56.27 37.16 0 0 5.28 95.85 0 0 51.58 37.64 22 12 36.04 24.62 0 0 4.09 64.40 0 0 38.77 28.30	18		48.82							ŧ		
20 12 43.18 29.05 8 0 4.65 79.36 0 8 39.58 28.89 21 12 56.27 37.16 8 0 5.28 95.85 0 8 \$1.58 37.64 22 12 36.84 24.62 8 0 4.09 64.40 0 8 38.77 28.30			34.36		t							
21 12 56.27 37.16 8 8 5.28 95.85 0 8 51.58 37.64 22 12 36.84 24.62 8 8 4.09 64.40 8 8 38.77 28.30					0							
22 12 36.94 24.62 8 9 4.99 64.40 8 8 38.77 28.30	21											
23 12 38.42 26.10 0 0 4.21 67.71 0 0 32.95 24.06												
	23	12	38.42	26.18	1 0	1 6	1.21	67.71	1 0	<u> </u>	<u> 32.95</u>	24.06

Trip Time and Trip Cost by Zone OD Pair

Zone	Pair	Reil			. 6	Ai Time	Cost	r	. 8	Bu Time	Cost
24	(1)	8.98	Cost 8.00	9	e	5.38	98.50	70	8	67.95	49.57
13	13	2.28	9.75	ě	ě	2.15	13.07	В	В	2.02	1.51
1 14	13	17.87	13.37	8	0	2.76	- 29.38	0	В	11.13	8.16
15	13	39.78	26.94	8	0	3.45	47.51	0	0	22.57	16.49
16	13	22.84	16.45	0.	8	3.09	37.91	9	8	15.67	11.46
17	13 13	35.71 51.84	24.42 34.41	9	8	2.90 4.61	32.94 78.38	9	ខ	51.10	37.29
18	13	28.91	20.21	ø.	8	3.01	35.92	ě	8	19.70	14.40
20	13	57.87	38.15	Ø	8	5.28	95.85	9	8	47.80	34,88
21	13	78.98	46.25	0	Ø	5.89	112.09	8	8	59.80	43.63
55	13	39.89	27.01	Ø	0	4.06	63.73	8	8	37.13	27.11
23	13	31.80	21.50	0	8	3.63	52.14	8	0	25.10 68.18	18.34 43.85
24	13	8.08 1.31	9.00 9.45	8	9	4.76 2.89	82.28 11.48	9	e	1.28	8.91
14	14	39.11	26.53	e	Ö	3.53	49.50	ě	ě	22.95	16.77
16	14	22.16	16.83	0	0	2.98	34.92	Ø	8	16.05	11.74
17	14	35.04	24.80	0	8	2.66	26.65	Ø	8	10.95	8.02
18	14	43.20	29.06	8	8	4.21	67.71	8	9	38.38	27.96
19	14	37.51	25.53	8	8	3.58 4.51	50.82 75.66	8	9	31.52 36.67	23.01 26.77
20	14	40.00 53.09	27.08 35.19	8	6	5.13	91.88	8	ě	48.67	35.51
22	14	39.22	26.59	8	è	4,21	67.71	8	ě	37.52	27.39
23	14	41.60	28.07	8	8	4.38	72.81	8	Ø	35.87	26,18
24	14	8.88	0.00	8	8	5.41	99.50	9	8	70.87	51.69
15	15	2.95	1.00	8	В	2.20	14.43	9	9	2.78	2.81
16	15	35.89	24.53 22.84	0	9	2.45 3.11	21.02 38.57	8	8	6.98 12.88	5.07 8.79
17	15 15	31.87 30.62	21.27	9	8	3.11	50.16	8	8	33.33	24,34
iš	15	31.58	21.85	ē	ě	3.25	42.21	Ø	8	22.98	16.73
28	15	58.62	33.65	8	8	4.90	85.92	0	8	48.25	35.21
51	15	58.87	38.77	8	8	5,84	110.76	0	8	60.25	43.96
55	15	52.95	35.18	- 8	- 8	2.78	29.63 69.36	0	8	14.57 37.68	10.66 27.45
23	15 15	47.98 8.88	32.92 9.98	8	8	4.28 6.91	115.39	8	0	72.68	52.96
16	16	3.47	1.18	8	e	2.24	15.35	. 6	0	3.18	2.36
17	16	40.88	27.68	8	e	2.41	28.82	6	. 6	5.10	3.76
18	16	56.13	37.07	8	8	3.68	53.47	8.	Ø	40.23	29.37
19 [	16	29.60	28.64	8	8	3.89	37.91	0	8	29.78	21.75
28	16	62.80 75.89	41.28 49.31	9	9	4.90 5.59	85.92 184.13	8	8	45.72 57.72	33.36 42.11
21	16 16	36.68	24.60	ő	ě	3.18	48.22	ø.	ø	21.47	15.69
23	16	38.38	26.88	ē	ø	4.13	65.39	0	0	33.02	24.11
24	16	0.80	0.00	8	8	5.70	197.11	0	0	68.02	49,62
17	17	2.87	0.71	6	0	2.14	12.84	.0	. 0	1.90	1.42
18	17	39.47	26.75	0	0	3.73	54.79 42.87	9	. 0	43.82	31.98 25.47
19	17	40.47	27.37 31.35	. Ø . 8	ě	3.28 4.73	81.28	9	0	40.62	29.65
21	17	59.98	39.45	ě	ě	5.18	93.21	8	8	52.62	38.39
22	17	42.22	28.45	8	e	3.50	48.83	8	- B	26.57	19.48
53	17	44.60	29.93	8	. 6	4.50	75.32	8	8	33.02	24.11
24	17	0.00	0.88	8	8	5.95	113.74	8	8	68,02	49.82
18	18 18	2.53 62.18	8.86 48.82	ě	8	2.17 4.90	13.67 85.92	a	ล	2.32	41.03
58	18	53.38	35.37	8	ő	4.33	70.69	ø	8	48.58	35.39
21	18	66.47	43.47	ē	9	4.91	86.25	Ø	0	60.50	44.14
22	18	51.69	34.32	0	0	3.93	60.69	0	9	47.99	34.95
53	18	78.60	50.98	0	0	5.75	198.44	8	9	70.93	51.74
24	18 19	8.89 2.15	8.66 6.73	0	9	7.38 2.15	151.49	9	9	185.93	77.25 1.47
28	19	77.51	50.31	ě	ø	6.13	118.37	8	ĕ	68.18	49.74
51	19	90.60	58.42	ě	8	6.70	133.61	8	0	80.18	58.49
22	19	26.84	18.92	0	0	3.44	47.18	8	8	22.67	16.56
23	19	19.09	14.13	0	9	2.96	34.59	8	8	14.88	18.83
24 28	19 20	8.98 8	0.68	8	9	4.81	83.60	8	9	49.88	36.34
21	28	8	ě	ě	ø	ő	ě	ē	a		ě
55	58	ě	ě	ē	ĕ	8	0	8	8	8	8
23	28	. 0	9	e	0	8	8	9	8	8	8
24	58	9	8	8	- 8	8	8	9	9	8	8
21	21	8	8 8	8	8	9	8	8	8	8	8
22	21	8	8 8	ä	8	8	ő	ំខ្ល	ě	. 8	ě
24	ี อีเ	ě	ĕ	ø ]	ě	e e	ě	ĕ	ø	8	ě
55	22	. ହା	e j	8	9	ð	8	8	8	8	e
23	55	. 9	0	. 8	0	8	9	8	8	8	8
24	55	9	8	8	8	. 8	8   9	8	- 6	8	8
23	23	. 8	ě	8	ő	ő	ě	ő	ě	e	ě
		äl	ě	ě	ő	ă	้อไ	ĕ	8	e	ē

#### Appendix-3.3.4 (19) Concept of MD Model

#### (1) General Concept

The concept of the ND. Nodel is based on the consumers behabioral theory under free economy.

The size of the traffic demand and share of each mode between zone (i) and zone (i) is the socioeconomical phenomenon occurred as the results of the consumers choice of the transportation modes (hereafter called as "modal choice") available on the said origin and destination, where each consumer's modal choice is presumed to follow the following two (2) principles:

- (1) Each consumer makes a trip when his utility of the trip is bigger than the "sacrificed volume" or "total trip cost" which he has to pay for the trip.
- (2) The higher the consumer's saving time value is, the faster (but more expensive) mode of transportation is selected.

Now, if the simultaneous probabilistic distribution for the utility of travel and the appraisal of saving time value for whole of the relevant consumers of the transportation is clear, then by combining the sacrificed volume curve with this distribution, the realizable demand ratio of each mode is easily calculated as the total possible demand being equal to 1.0. The share of each mode is also easily calculated from the above demand ratios.

#### (2) Simultaneous Probabilistic Distribution

The simultaneous probabilistic distribution consists of respectively independent distribution for the utility of travel and that for the appraisal on saving time value in travel i.e. it is a product of those two distributions, which forms, in usual, a shape of symmetric mountain as shown in Figure 1. Both of the above distributions are presumed to follow logarithmic normal distribution which is indicated by the following parameters:

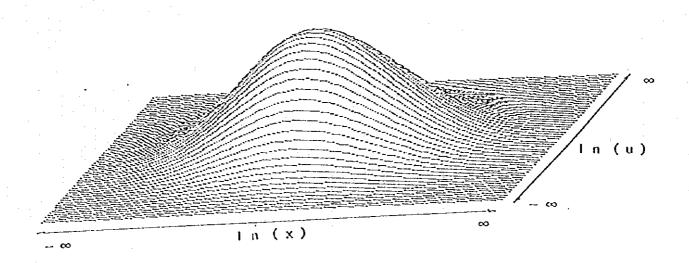


Figure 1 Simultaneous Probabilistic Distribution

•	Utility of travel:	Mean····································
		Std. deviation
•	Saving time value:	Mean μ loge (x)
		Std. deviation

(Note) U and X are probabilistic variables where X=1/Y; Y means appraisal value of saving time of consumers; U means utility of the travel for consumers.

Dij = 
$$\int_{-\infty}^{\infty} g(x)$$
  $\int_{-\infty}^{\infty} f(u) du dx = 1.0 \dots (1)$ 

where.

g(x): Distribution function of (x). f(u): Distribution function of (u)

The normal distribution function of (x) is indicated by the following formula:

#### 2.3 Realizable Demand Ratio by Mode

Realizable demand ratio by mode is caliculated by input data of modal trip time and trip cost based on the foregoing simultaneous distribution as shown in Figure 2.1 and 2.2.

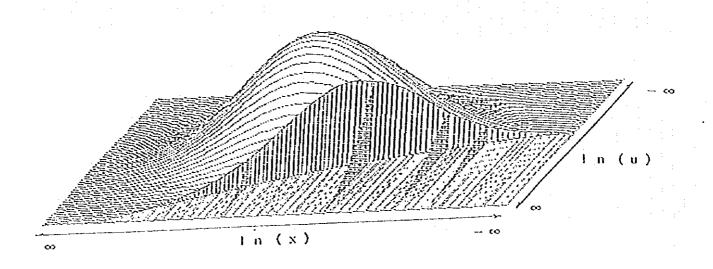


Figure 2.1 Graphical Description of Realizable Demand Ratio by Mode

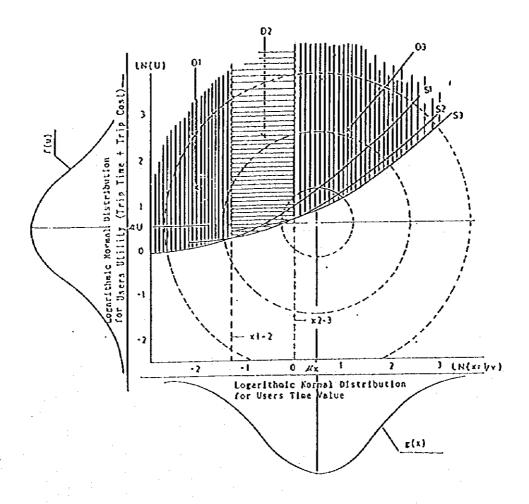


Figure 2.2 An illustration of Realizable Demand Ratio by Mode

In the upper figure. D1. D2. D3 mean respectively the realizable demand ratio of mode 1. 2 and 3 which are calculated by Formula (2).

$$RDmij = \begin{cases} \ln (x_{m+m+1}) & \infty \\ \int (x) & \int (u) du dx \cdots (2) \\ \ln (x_{m+m-1}) & \ln (Smij) \end{cases}$$

In the formula (2). Xm·m-lij means respectively the boundary or substitutional value of  $\{x\}$  where the value  $\{S\}$  of mode  $\{m\}$  equals that of mode  $\{m-1\}$  between zone i and zone j.

For example, the substitutional value for SI and S2 which gives SI equals S2 is calculated as follows:

S1. S2 and S3 indicate respectively "sacrificed volume" curve for mode 1.2 and 3. The value of sacrificed volume is indicated in terms of time as shown in Formula (1).

here. Smij means sacrificed volume of mode (m) for zone i-j. Tmij and Cmij are respectively trip time and trip cost (fare and charge) of mode (m) for zone i-j.

Here it should be noteworthy that the share of each mode (SHm) is indicated by the following equation:

$$SHm = Dm/\Sigma Dm \cdots (5)$$

For example, share of mode (1) is indicated as follows:

$$SHI = D1/(D1+D2+D3) \cdots (6)$$

The lower graphical figure in Figure 2 shows an situation of modal demand estimation which is drawn by computer graphics. The input data used for this estimation are shown in Table 1.

Table 1 Trip Time and Trip Cost by Node

-												our.The	<u>usand Yen)</u>	
1			Existing Node											
l.		l	2 1	3_	4	5	6	7.	8	9	10	11	12	
	Time	1.66	2.00	_	3.96	1		3. 21	-	4	5. 35	15.74	2, 50	
L	Cost	15.00	12.00	-	9.00		_	7.00		-	5.00	4.00	5.50	

The following values of parameters are applied for the above calculation:

μ loge (u) : 1.40
σ loge (u) : 1.72
μ loge (x) : 1.20
σ loge (x) : 1.72

The boundary point or substitutional value of (x) are shown in Table 2 and Figure 3.

Table 2 Substitutional value of ln(X) (ln(1/v))

<u></u>				
l Nodes	1 & 2	2 & 7	7 & 10	10 & 11
Yalue (In (1/v))	-2. 18212		0.06917	2.34029

The calculated results of modal demand ratios are shown in Table 3.

Table 3 Calculated Modal Demand Ratios

												(%).
	<u> </u>		_Ex	isling	Mod	es						New Mode
		22	3	4	5	6	7	8	9	10	11	12
Values (%)	1.38	1.95	-	0	_	-	6. 98	-		8. 10	0.69	-

1015

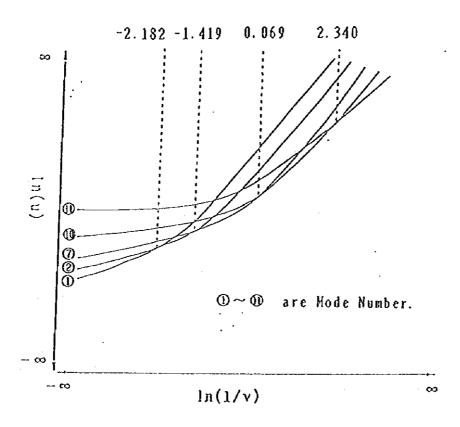


Figure 3 Boundary point or Substitutional Value

It should be noted that the demand ratio of mode (4) is zero (0). This is because any unreasonable mode is automatically excluded in this model since the model is formed based on strict economical principles. The cause of this omission of mode (4) is explained by the theory of 'consumer's indiffrence curve' shown in Figure 4.

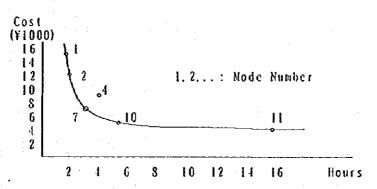
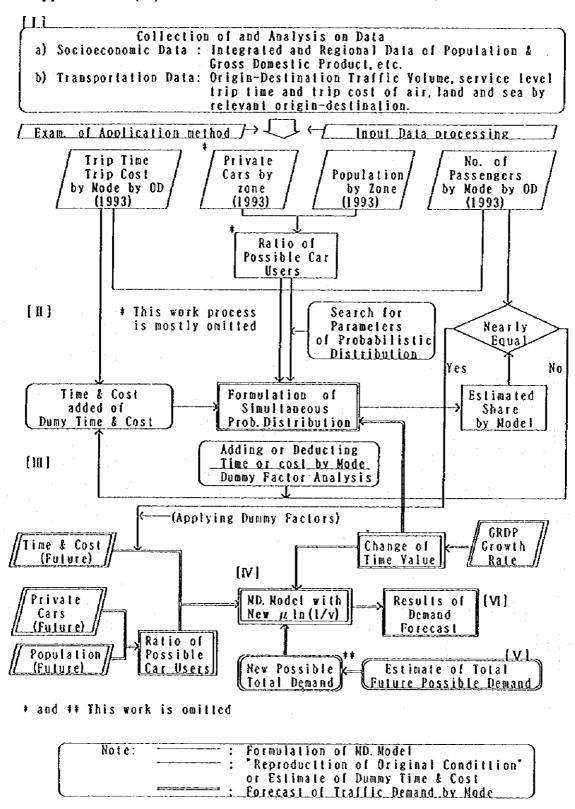


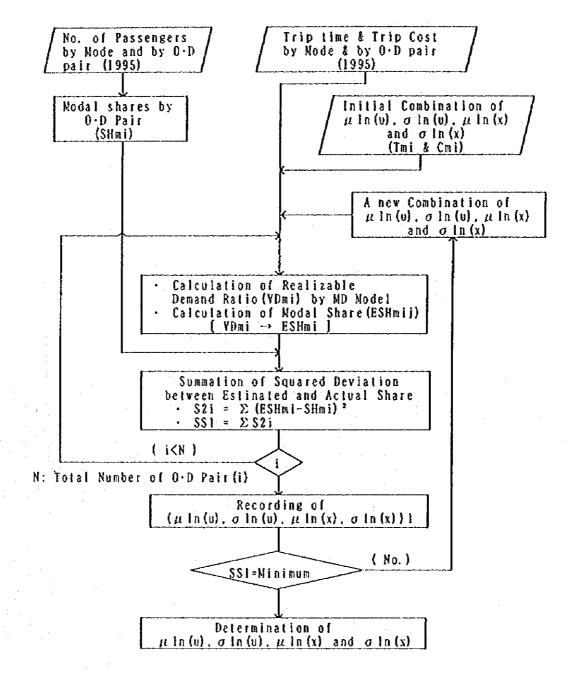
Figure 4 Indiffrence Curve for Competitive Modes

In the above figure, the curve formed connecting mode 1, 2, 7, 10, and 11 means indifference curve on which curve consumer's expenditure or productivity is equal to travel on this presumed origin-destination. However, as clear from the figure mode (4) is located outside of the curve which means consumers expenditures is bigger than any other mode. In RMD Model such mode as mode (4) is automatically excluded in accordance with the economic principles.

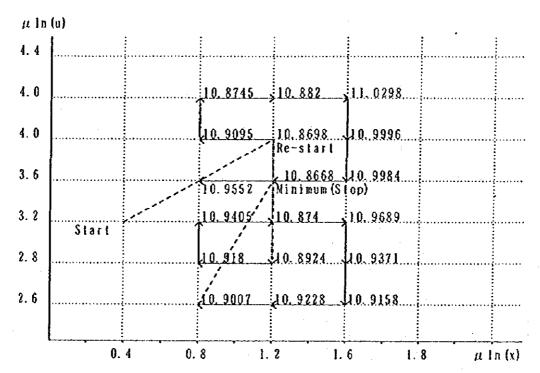
#### Appendix-3.3.4 (20) Procedure of Traffic Demand Forecast by MD Model



#### Appendix-3.3.4 (21) Procedure to Search Parameters of Simultaneous Probabilistic Normal Distribution



Appendix-3.3.4 (22) Process of Searching an Optimum Combination of Parameters



Note: Values are minimum value of summed squared deviations for all mode of all 0.D Pair among those for combinations of four(4) parameters of simultaneous normal distribution(See the here-to-atlached lables.

Appendix-3.3.4 (23) Parameters of Simultaneous Normal Distribution and Assumed Time Values by Case for Target Years

	1995	2000	2005	2010	2020
Parameters	3.42 A Br. Ed Co. Marie and C.				
μ loge (I/V): Low Case	1. 20	1. 13	1. 01	0.84	0.52
μ loge (1/V): Medium Case	1. 20	1. 10	0.94	0.73	0.32
μ loge (1/V) : High Case	1. 20	1.07	0.86	0.60	0.11
o loge (1/V)	3. 52	3. 62	3.62	3.62	3.62
μ loge (U)	2. 42	2. 42	2. 42	2. 42	2. 42
ø loge (V)	3.42	3.42	3. 42	3. 42	3. 42
					***************************************
Annual GDP Growth Rate(%)	1995-			2010 2010-	
in Kazakhstan: Low Case					29
: Medium Case					79
: High Case	5.	49 6.	13 5.	88 5.	30
index of GDP Growth (GDPID)					
(GDP1D) (1995=1) Low Case	1.000000	1. 251558	1.614911	2. 048354	3. 117681
(GDP1D) (1995=1) Medium Case	1. 000000	1. 281761	1. 693550	2. 199799	3. 512218
(GDP1D) (1995=1) High Case	1. 000000	1. 306341	1. 758925	2. 340545	3. 922841
Time Value (V) (100 tenge)					
VI = Y95 + (CDPID) k					
Low Case: Time Yaue (V)	0. 30	0.32	0. 36	0. 43	0.60
k (1995-2000) : 0.30					
k (2000-2005) : 0.40					
k (2005-2010): 0.50					:
k (2010-2020) : 0.60				i	
Loge (1/Y)	1.20	1. 13	1.01	0.84	0.52
Medium Case: Time Yalue(Y)	0. 30	0. 33	0. 39	0. 48	0.73
k (1995-2000): 0.40					
k (2000-2005): 0.50	ļ				
k (2005-2010): 0.60					
k (2010-2020): 0.70			<u>:</u>		
Loge (1/Y)	1.20	1.10	0.94	0. 73	0.32
High Case: Time Value(V)	0. 30	0.34	0.42	0.55	0. 90
k (1995-2000): 0.50					
k (2000-2005): 0.60					
k (2005-2010): 0.70	]				
k (2010-2020): 0.80					
Loge (I/V)	1. 20	1. 07	0.86	0.60	0.11

Appendix-3.3.4 (24) Total Number of Passenger and Modal Shares by OD Pair

Zone Zone Item	Rail		Air	T	Auto	Γ-	Total	Total Pax.
1 1 Actual (A)	8.3198	ē	8.8888	9	0.6802		1.0000	1850,8
1 1 Estimate (8)	9.8000	9	8.0868	0.	8.8888	} <mark>8</mark> .	0.0000	<b>{····</b>
2 1 Estimate (8)	0.1488 3.1468		0.0041	. 0	. 0.8471	0	1,8000	389.2
2 1 (8) (6)	8.6828	Ø	0.0081 -0.0039	8	0.8452	0	1.0000	
3 1 Actual (A) 3 1 Estimate (8)	0.7182 0.7164	9	0.2376 0.2307	0	0.8542 8.8529	8	1.8888	158.6
3 [ (A)-(B) (C)	0.0018	8	-0.0031	8	0,0013	0	_	
4 1 Actual (A) 4 1 Estimate (B)	0,8403 0,8384	<u>8</u>	9.1110 9.1149	0	0.0486	0	1.0000	744.1
4 1 (R)-(8) (C)	8.0019	8	-8.8839	8	8.8828	8	-	
5 1 Actual (A) 5 1 Estimate (B)	0.8296 0.8276	0	0.1197 0.1237	8	0.8587 0.8487	0	1.8888	344.7
5 1 (A)-(B) (C) 6 1 Actual (A)	0.0020 0.6958	8	-0.8048 0.2482	0	8.8928	8	1,9809	100 0
6 i Estinate (8)	0.6940	0	0.2519	. 0 8	8.0559 8.0542	[ 8 ]	1.8889	126.9
6 1 (A) - (B) (C) 7 1 Actual (A)	0.8018 0.7348	9	-0,0036 0,0788	0	0.0018	8	1.9000	288.5
7 1 Estimate (B)	8 7328	0	8.0821	8	0.1859	[ 0]	1.0000	
7 1 (A)-(8) (C) 8 1 Actual (A)	8.0020 9.4666	8	-8.0033 8.1681	0	0.0013 0.3653	8	1.8898	685.4
8 1 Estimate (8) 8 1 (A)-(B) (C)	8.4646 8.8828	9	8.1714	[ Ø]	0.3648	0	1.0000	
9 1 Actual (A)	8.3759	a	-8.8834 8.8449	8	0.0014	8	1.8998	584.5
9 1 Estimate (8) 9 1 (A)-(B) (C)	0.8028	9	8.0475 -9.8036	8	0.5786 0.0016	8	1.0000	
18 1 Actual (A)	0.7936	В	0.1512	. 0	0.0552	0	1.0000	492.1
18 1 Estimate (B)	B.7922 B.8014	8	-8.1546 -8.8834	8	0.0532 0.0828	8	1.8680	
11 1 Actual (A) 11 1 Estimata (B)	0.6639		0.1951	0	8.1410	.8	1.8880	251.7
11 1 (R)-(B) (C)	0.6619	e	0.1985 -0.0035	6	0.1396 0.0015	<u>6</u>	1.6000	
12 1 Actual (A)	0,7895 0.7876	8	0.1238 0.1277	0	8.8867 8.8847	.0	1.0000	161.5
15 [ (B)-(B) (C)	9.8018	Ø	-0.0038	8	0.0028	8	1.0000	
13   Actual (A)	0.8896	0	8.8713 8.8728	9	0.0375	8	1.0000 1.0000	1242.6
13 1 (A) - (B) (C)	0.0016	8	-8.0015	0	-6.6881	0		
14   Actual (A) 14   Estimato (B)	0.9092	0	0.0563	0	0.0324	0	1.0000	246.8
14 1 (A)-(B) (C) 15 1 Actual (A)	8.0019	9	-0.0039 0.0780	9	0.0028	0		5.00.0
15   Estinato (6)	8.2429		0.0899 [	. 8	0.6771 0.6762	0	1.8008	569.3
15 (A)-(B) (C) 16 1 Actual (A)	8.7267	8	-0.0038 0.2430	8	0.0303	9	1.9889	181,5
16 1 Estimate (8)	0.7256	8	8.2458	e j	0.0286	ð.	1.0000	
16 1 (A) - (B) (C) 17 1 Actual (A)	0.0011	8	-8.0029 0.2407	0	8.0817	8	1.0000	78.2
17 1 Estimate (B)	8.7346 0.0019	8	0.2445 -0.0037	(e)	0.0209	. ė	1,0006	
18 1 Actual (A)	0,4485	9	0.1933	ø	8.3582	0	1.8008	148.5
18 1 Estimato (B) 18 1 (A)-(B) (C)	0.4465	8	0.1962 -0.0829	0	0.3573 0.8010		1.0000	
19   Actual (A) 19   Estimate (8)	0.0867 0.0000	8	9.8888	8	0.9133	0	1.0008	2028.2
19 1 (A)-(B) (C)	0.0000	9	0.0000 0.0000	<u>ə.</u>  .	0.0000 0.0000	. 0	0.0000	
(A) lactual (A)	0.3986	8	0,5645 0,5608	0	0.8369 0.8389	8	1.0000	915.8
28 ( (A) - (8) (C)	-8.8818	8	0.0037	8	-0.0019	0		
21   Actual (A) 21   Estimate (B) 21   (A) - (B) (C)	0.8247 0.8230	9	8,1180 ( 8,1136 (	. 8	0.0653	. 0. 0	1.8888	378.8
2) 1 (A)-(B) (C) 22 1 Actual (A)	0.0017 0.5793	8	9.2236	0	0.8019	9	1.0000	1012
22 ( Estinato (B)	0.5773	0.1	8.2271	<u>. e J</u>	0.1956	8	1.6008	181.6
22 (A)-(B) (C) 23 (Actual (A)	0.8628 0.8927	9	-0.2035 0.6676	8	0.0015 0.0397	8	1.0000	68.4
23 1 Actual (A) 23 1 Estimato (B) 23 1 (A)-(B) (C)	0.8938	8	0.8648	. 0 ]	0.8414	8	1.8698	
24   Actual (A)	0.0000	8	0.0027 0.9149	8	-0.8817 0.8851	8	1.8003	9.4
24   Estimate (B) 24   (A)-(B) (C)	0.0000 0.0000	8	0.9129 0.0020	Ø ]	0.0871 -0.0020	0 0	1.0000	
2 2 Actual (A)	0,8132	. Ø J	0.0000	0]	0.9868	0	1.0000	8859.5
2 2 Actual (A) 2 2 Estimate (B) 2 2 (A)-(B) (C)	0.0000	e ] e	8.0000	8	8.8838 8.8838	e e	0,0000	·····
						_=		

Total Number of Passenger and Modal Shares by OD Pair

Zone Zona	ltem	Rail		Rir	1	Auto	-	Total	Total
(i) (j)	and the second second second second second			0.0081	ā	0.9565	8	1.0000	Pax. 1617.3
[ <u>ş</u>	Rotusi (A). Estimato (B)	8.8434	<u>a</u>	8.0834	ě	0.9551	B	1,0000	
35	(A) - (B) (C)	8.0019	0	-8.0034	8	0.0014	0		
4 2.	Actual (A)	0.1583	<u>@</u> .	9,8988		0.8417	0	1.0000 0.0000	432.7
····	Estinate (B) (R) - (B) (C)	8.0000 8.0008		9,9889 8,8888	···ö	0.0000	8		
\$ 2	Actual (A)	0.1121	8	9.6696	. 0	0.8879	0	1,8898	498.8
5 2	Estimate (8)	0.000	8	0.0000	0	0.0000	8	0.0000	
5 2 6 2	(A) - (B) (C) Actual (A)	0.8988	8	8.8856	8	9.9615	8	1.8008	986.0
6 2	Estinate (B)	8,6318	8	0.0095	8	0.9595	8	1.0000	
6 2	(A) - (B) (C)	8.0019	- 8	-0.0039 0.2116	8	0.0020 0.6465	8	1.0300	152.2
7 2	Actual (A) Estimato (B)	8.1419 8.1487	B	0.2148	ĕj	0.6445	0	1.0000	
	(A)-(B) (C)	0.0013	8	-8.8833	<u>0</u>	0.0028	0	1.0020	310.8
82.	Actual (A)	0.1091 8.0008	8]	8.0000 8.0000	0	6 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	8	0.0000	
82 2	Estimate (8) (A)-(E) (C)	0.0088	ð	0.0880	Ø	8.8650	8		
9 2	Actual (A)	0,1118	8	8.0000		8.8882	0	1.0000	155.6
9 2	Estimate (8) (A)-(B) (C)	8.0008	8	8.0888 9.8888	8	0.8680 0.8600	8	-	
9 2	(A) - (B) (C) Actual (A)	0.1838	Ø	0,0000	8	0.8162	. 8	1.0000	217.1
16 2	Estimate (B)	8.0898	0	8.888.8	8	0.8888	. 0	8.8086	} <del>-</del>
18 2	(A) - (8) (C) Actual (A)	0.0000 0.1623	8	8.8888 8.8888	8	0.8377	0	1.8008	88.1
11 2	Estimate (8)	8.9888	0	8.0969	[ 0 ]	0.0000	В	8.8688	ļ
11 2	(A) - (B) (C)	8.8808	8	0.0000	8	8.8441	9	1,0000	127.0
12 2	Actual (8) Estimato (8)	9.1559 9.8008	<u>9</u>	8.0000		0.0000	0	0.0008	[]
	(A) - (B) (C)	8898.8	9	0.0300	0	8.8888	8		000
13 2	Actual (A)	0.4396	9	0.8389	8.	8.5684 8.8800	0	0.0000	285.5.
13 2 13 2	(8) (8) (8) (R) (R)	0.8698	0	0.0880	8	8.8880	8		
14 2	Actual (A)	0.2183	e	9.2802	8	0.7817	. 9	1.0000	146.1.
14 2	Estinato (B)	8.6998	@	0.0000 0.0000	0	0.0000 0.0000	9	0.8008	
14 2	(A) - (B) (C) Actual (A)	0.0020	ø	8.0000	0	8.8741	Ø	1,0008	234.4
15 2	Estinato (B)	8.8638	8	0.0068	0	0.0000	0	6.8088	<b> </b>
15 2	(A)-(B) (C)	0.1103	8	9.0000	8	8.8866 8.8897	8	1.8088	135,1
16 2	Actual (A) Estimate (B)	0.8088	e	0,0000	9	9.9889	0	8.0000	[]
16 2	(A) - (B) (C)	8.0200	8	8.8888	8	0.8000	8	1.8088	55.6
172.	Actual (A) Estimato (B)	0.1565 0.0008		0.0000	0.	0.8435	8	8.8888	h
17 2	Estimete (B) (A)-(B) (C)	0.8030	3	8.9988		8.888.8	<u> </u>		
18 2	Actual (A)	0.8839	8	0.8585	<u>e</u>	9.8576	0.	1.0000	228.9.
. 18 2.	Estimate (B) (A)-(B) (C)	0.0820 8.0019	<u>8</u>	0.0622 -0.0037	8	0.8558 6.8018			
19 2	Actual (A)	0.1312	8	0.0000	0	0,8688	. 0	1,0000	58.7
19 2	Estimate (B)	6,8008	8	8.0008	0.	0.8688	8	9.0000	<b></b>
19 2	(A)-(B) (C) Actual (A)	0.8888 8.8669	9	8.0003 9.0012	8	8.9328	0	1 9689	2816,0
20 2	Estinato (8)	8.8641	Į D	0.8844	e	0.9315	8	1 0688	Įl
58 5	(A)-(B) (C)	0.0019 p.2986	8	-0.0032 B.0086	8	0.9813	8	1.0080	1241.2
21 2	Actua) (A) Estinate (8)	0.8986 0.8971	0	8.0036	0	0.8994	Ø	1.0000	[
21 2	(A)-(B) (C)	0.0016	9	-8.0829	0	0.0814	8	1.8008	112 0
55 5	Actual (A) Estimate (B)	8.1019 0.1087	e e	9.0035 8.0068	9	0.8946 8.8926	9	1.0000	113.8
55 <b>5</b> 55 5	Estinate (B) (A) - (B) (C)	8.8813	ě	-0.0032	<u>  0</u> .	0.0028	0		I
23 2	Actual (A)	8.2869	8	0.1724		0.6287	8	1,8898	5.8
23 2	Estimate (8) (A) - (B) (C)	-0.8028 -0.8028	8	0.1687 0.8837	0	-0.0017	9.	1.8000	
24 2	Actual (A)	8,0003	8	8.0588	<u> 0</u>	0.9412	0	1.0000	3.4
24 2	Estinata (B)	0.0800	8	8.0607 -0.0018	0	0.9393	9	1.0008	<b></b>
24 2 3 3	(A) - (B) (C) Actual (A)	0,8000 0,6849		0.8889	. 0	0.3151		1.0000	407.5
3 3	Estinato (B)	0.8308	[	0.0008		0.6666	.  <u>@</u> .	0.0000	<b></b>
3 3	(A) - (B) (C)	0.0000	8	8.8888	0	0.0000	0	1.0300	153.0
4 3	Actual (A) Estimato (8)	0,9125	18	8 0228	( e	0.8647		1.0880	I
4 3	(A) - (B) (C)	0.8019	9	-8.8838	0	0.8828	8	1.8800	166.2
5 3 5 3	Actual (A) Estinate (B)	8.8357 8.0000		9,0869 9,8889				8.6888	1
5 3 5 3								1	

Zone Zone	Item	Reil		Air	r	Auto		Total	Total
(O) (D)				27.54			<u> </u>	5.0000	Pax.
6 3.	Roival (R) Estinato (B)	8.7865 8.7865		0.0327 0.0061	0	0.2868	9	1.8098	118.8
	(A) - (B) (C)	8.8820	0	-0.0034	8	0.0014	8	-	
3.	Actual (A)	0.9284 0.000B	0	0.0000	9.	0.8888		1.0000	
<del>3</del> <del>3</del> -	Estimate (8) (A)-(B) (C)	0.0008	} · · · · e	8.0000	š	8.8888	8		1
8 3	Actual (A)	0.7785	0	8.0054	<u>e</u> .	0.2241	8	1.8668	92.8
8 3	Estimate (8) (A)-(B) (C)	0.7698 0.8687	0	9.0980 -9.0926	e e	0.0019	6	1.0008	
9 3	Rotual (A)	0.7297	8	0.2000	8	0.2703	0	1.0008	49.2
9 3	(A)-(B) (C)	0.8668 8.8688	0	0.0000 0.0000		0.8688	8	9.8888	ļ
9 3	Actual (A)	8.9846	0	8,0198	e	0.0846	e	1,0000	92.2
18 3	Estinate (B)	8.9827	8	0.0147	0	0.0026	8	1.0000	
10 3	(A) - (B) (C) Actual (A)	0.0019 2.8754	0	-0.0038 8.0000	0	0.1246	0	1.0008	31.3
11 3	Estinato (8)	0.8688	0	9.0980	Ø	0.8888	0	0.8880	
11 3	(A) - (B) (C) Actual (A)	0.8008 0.8356	9	0.0000	0	8.1644	8	1.0000	50.5
12 3	Estimate (B)	8,0000	[ 0]	8.6998	0	8.0000	0	8.888.8	
12 3	(A)-(B) (C) Actual (A)	8.8888 8.9578	8	8.0008	0	8.888B 8.8379	9	1,8888	255.8
13 3	Estinate (B)	2.9564	[	0.0075	8	0.0360	Ø	1.8080	
13 3	(A) - (B) (C)	0.0013	8	-0.0033 0.0000	8	0.0819 0.0923	8	1.8888	72.6
14 3	Actual (A) Estinate (B)	0.9977 0.9888	8	8.8888	Ö	0.8880	ğ	8.8698	
14 3	(A)-(B) (C)	0.8388	8	9.9998	9	8.8860	9	<del>-</del>	100 0
15 3 15 3	Actual (A) Estinato (B)	0.3444	8	0.0000		0.6556 0.8800	0	0.0000	165.2
15 3	(A)-(B) (C)	0.0000	6	8.0880	B	0.8008	8		
16 3	Actual (A) Estimato (B)	0.8818 0.8798	8	0.0030		0.1152 8.1145	8	1.0000	33.0
16 3	(A) - (B) (C)	0.0020	e	-8.0826	9	8.0886	9		
173.	Actual (A)	0.8423	0	0.0225 0.0264	9	0.1351 0.1332	8	1.0000	22.2
17 3	Estimate (8) (A)-(B) (C)	0.8484	ë	-8.0039	. 8	0.8819	0		
18 3	Actual (A)	0.3099	8	0.0578		0.6323		1.0008	134.9
18 3	Estinate (8) (A)-(B) (C)	0.3079		9.8614 -0.8035	<u>8</u>	0.6307 8.0016	0.	1.8998	
19 3	Actual (A)	0.6107	e	8.0000	. 8	0.3893	0	1.0000	24.4
19 3	Estimato (8) (A)-(B) (C)	8.0000 8.0000		0.0000	. 0	8.0000	<u>e</u>	0.0000	
20 3	Actue) (A)	8.5425	Ø	0.0357	0	0.4218	Ø	1,0008	364.6
29 3 3	Estimate (8) (8)-(8) (C)	0.5408 8.6017	8	-0.0393 -0.0393	0	0.4199		1.8888	
21 3	Actual (A)	0.5758	9	0.0019	ø	0.4223	0	1.0000	312.6
21 3	Estinato (8)	0.5740	0	0.0057	0	0.4203		1.0000	
51 3	(A)-(B) (C) Actual (A)	0.8818	8	-8.0038 8.0110	8	0.0020 0.4286	8	1.0008	36.4
22 3	Estinate (8)	8,5588	8]	8.8146	8	0.4267		1.0000	
22 3 23 3	(A) - (B) (C) Actual (A)	0.9817	8	9.4889	8	0.0019	9	1,0000	2.0
23 3	Estinata (B)	8.3988	6 ]	8.4848	0	8.1980	0	1,0008	
23 3	(A) - (B) (C) Actual (A)	8.8928 8.8988	0	-0.0840 0.3333	0	8.8828 0.8667	0	1,8888	6.6
24 3 24 3 24 3	Estinato (B)	8.0008	0	0.3345	0	0.6655	9.	1.8698	
24 3	(A) - (B) (C)	8.8888	9	-0.0012 8.0000	8	0.8812 0.3355	8	1.8000	1530.1
4 A 4 A	Actual (A) Estimate (B)	8.6645 8.8888	0	0.0000	0	0.8880	9	0.0000	
6 4	(A) - (B) (C)	8.8688	9	8.0003		0.0000	8	1.0003	364 6
5 4 5 4 5 4	(A) isutoA (B) ofsmile3	8,9448 8,8688	9	8.8998 8.8998	8	0,8560 0,8668	9 ]	0.0808	364.6
	(A)-(B) (C)	0.8008	<u>9</u>	6.0809	. 8	8.0000	0	<u>-</u> 1	
6 4 6 4	Actual (A) Estinato (B)	0,8909 0,8892	9	0.0541 0.0578	<u>8</u>	0.0550	8	1.0308	197.2
6 4	(A) - (B) (C)	8.8817	9	-8.0037	9	0.0028	8		
7 4	Actual (A) Estinato (B)	8.8272 0.8252	9	8.0152 0.0188	. <u>0</u>	0.1576 0.1561	9	1,0003	362.7.
7 4	(A) - (B) (C)	8.8628	8	-0.8835	0	0.8015	-8		
8 4 8 4	Actual (A) Estinate (B)	0.8215 0.8197	8	0.8231	<u>0</u>	0.1555 0.1535		1.8000	351.2
	(A) - (B) (C)	0.8018	0	-0.0037	0	0.0020	0		
9 4	Actual (A)	0,7344	8	9.8886 9.8888	. 0	0.2656 0.2002	8	1.0000 8.0000	250.4
9 4	(8) (8) (A) (B)	8,8998	<u>e</u> {	6.6365		0.0030			

Zone Zon		Re11	f	Air	Γ	Auto	]	Total	Total
18 4	Rotuel (R)	0.7836	8	9.0000	0	9.2164	8	1.0000	Pax. 1459.8
18 4	Estinato (B)	9.0000	8	0.0000	8	6,0000	( 8	9.8999	
10 4	(A)-(B) (C) Actual (A)	0.0000	9	8.0085	8	0.0000	8	1.8000	219.0
11 4	Estimate (8)	0.6715	[ B	0.8037	8	8.3247	0	1.0000	
11 4	(A) ~ (B) (C) Actual (A)	0.0020	9	-0.8633 B.8888	9	0.0813 0.1989	8	1.0000	339.4
12 4	Estinate (8)	8.8869	8	0.0000	0	0.0003	Ď	8.9999	1
12 4 13 4	(A) - (B) (C) Actual (A)	8.8309 8.8576	8	8.0888	0	0.8888	0	1.8880	2330.8
13 4	Estinate (B)	8.0803	e	8.0028	<u></u> 8	6.0003	(	8.8988	[]
13 4	(A) - (B) (C) Actual (A)	0.0808 0.9285	9	0.0000	8	0.0800	8	1.0000	4)1.8
14 4	Estinete (B)	0.0088	8	0.0000	8	0.8030	Ø	0.0000	
14 4 15 4	(A)-(B) (C) Actual (A)	8.000B 0.2471	9	8.8888	8	9.0000 9.7522	0	1.0000	536.3
15 4	Estinata (8)	0.2451	ĕ	8.0844	([0]	6.7505	[ B	1.8008	[]
15 4	(A) - (B) (C)	8,8020	. 8	-8.8036	0	0.0017	9	1 0000	274 9
16 4 16 4	Actual (A) Estinato (B)	8.9222 8.8088	8	8.0880 9.8880	8	0.0778	9	1.8988 0.8688	304.8
16 4	(A) - (B) (C)	0.0008	8	9.0000	8	0.8888	0	1 0000	20.0
174	Actual (A) Estimate (B)	0.8855 0.0008	9	0.0000 0.0000		0.1145	0	1.0008 8.8008	98.8
17 4	(A) - (B) (C)	8.8888	8	8.8888	0	8.0000	8	1 0000	
18 4	Actual (A) Estimato (B)	8.6102 8.6800	8	8.8888	0	0.3898 0.000D	8	0.0000	115.2
18 4	(A) - (B) (C)	8.0008	8	0.0000	8	0.0300	. 0	4 0000	
19 4 19 4	Actual (A) Estimate (B)	8,4490 0,0006	8	0.0000 0.0000	8	0.5510 0.9800		1.0000	161.7
19 4	(A)-(8) (C)	0.0000	. 0	0.0000	. ë	0.0000	. 6	4 0000	400.0
28 4	Actual (A) Estinate (B)	8.7416	0	0.1898 0.1861	0	0.0705 0.0723	8	1.8000	488.6
28 4	(A) - (B) (C)	-8.8019	. 0	8.8836	Ø	-8.0818	8	4 0000	
21 4	Rotusi (A) Estimato (B)	8,913B	8	0.0158	8	0.0694	<u>0</u>	1.0000	317.4
21 4	(A) - (B) (C)	8.8919		-0.6637	8	0.9818	8	-	70.1
22 4	Rotual (A) Estinato (B)	0.8475   0.8475	<u>8</u>	0.0332	<u>e.</u>	0.1173 8.1155	0	1.8000	78.4
22 4	(A)-(B) (C)	0,0028	В	~8.8838	0	8.8818	8	-	
23 4	Actual (A) Estimate (B)	0.3273 0.3281	0	0.6000 8.5972		8.0727 8.0747	B	1.0000	11.0
23 4	(A) - (B) (C) Actual (A)	-0.0008	9	8.0028	8	-8.8828	9		1.4
24 4	Actus) (A) Estinato (B)	0.8008	<u>9</u>	8.7143 0.7123	8	0.2857	0	1.0008	
24 4	(A) - (B) (C)	0.0000	8	0.8020	8	-0.0020	0	-	027.4
5 5 5 5	Actual (A) Estimato (8)	0.5817 0.6888	0	0.0000	8	0.4983	0	1.8098	807.4
5 5 8 5	(A)-(B) (C)	8.8888	8	8.6986	8	6,8668	3		05 6
8 5	Actual (A) Estimato (B)	0.6773 B.8759	9	0.0082	0	0.1145 0.1125	8	1.0000	85.6
6 5	(A) - (B) (C) Actual (A)	9.0014	9	-8.0034	8	0.0020	8		00.2
75	Estinate (B)	0.9033 0.9816	9 ]	8.8122 8.8159	0	0.0845 0.0825	9	1.0000	98.2
7 5 8 5	(A)-(B) (C) Actual (A)	0.0317 0.7892	8	-8.6937 8.6888	8	0,0020 0,2108	9	1.8008	116.7
8 5 8 5 8 5	Estinato (B)	0.0000	9	6.6669	8	0.8880	0	8.8008	
9 5	(A) - (B) (C) Actual (A)	0.0000 0.6315	9 9	8.0999	8	0.0000 0.3538	9	1.8898	74.9
9 5 9 5 9 5	Estinate (8)	0,6295	9	8.0147 8.0179 -8.0032	8	0.3526	0	1.8888	1718
9 5	(A)~(B) (C) Actual (A)	0.8629 0.8688	8	0.8888		0.0012 0.1312	8	1,8000	256.1
10 5 18 5 18 5	Estinato (B)	8,0000	8	9.8989 9.8888	9	8.8666	9. 9	0.0000	
18 5	(A)-(B) (C) Actual (A)	0.8865 0.8865	8	0.0000 0.0000		0.800B 0.1135	8	1.0000	65,2
11 5 11 5 11 5	Estinato (B)	0.0000	<u>ö</u>	8.8988	0	0.0000 0.0000	8	0.0300	
11 5	(A) - (B) (C) Actual (A)	0.8808	<u> </u>	6.0000 6.0000	0	0.8808	8	1.0000	223.2
12 5 12 5 12 5	Estinato (8)	0.0000	9	8.0800	9	0.0000	8	0.0000	
12 5	(A)~(B) (C) Actual (A)	0.0000 0.9581	8	8,0868	0	0.8800	0	1.0000	689.8
13 5 13 5 13 5	Estinata (8)	8,8098	ë   ë	8.8888	8	0.0000	. 6	0.2029	
13 5	(A)-(B) (C) Actual (A)	8,8688 8,8212	8	0.0800	8	0.0000 0.1788	8	1,2008	249.4
14 5 14 5 14 5	Estinate (8)	8.9999	9	0.0000	8	0.0000	0	8.8008	
14 5	(A) - (B) (C)	0.0000	0	0.0000	8	0.0000	8		

Zone Zone Item	Rail	r	Rir	ĭ	Auto	Ť	Total	Total
(i) (j) 15 5 Actual (A)	0.3532	0	9.8868	Ø	0.6408	8	1.8008	Pax. 214.9
	0,3512	ø	0.0398	8	0.6390	8	1.0000	413.52.
15 5 (A)-(8) (C)	8.8658	0	-0.0037	8	0.0017	8		
16 5 Actual (A) 16 5 Estimate (B)	0.8238	8	9.8868 9.8888	8	0.1762	8	1.0000	75.6
16 \$ (A) - (B) (C)	8.8698	Ø	6.6880	· e	0.000	ě	}	
17 5 Actual (A)	8.8248	0	0.0020	0	0.1752	. 0	1.0000	62.8
17 5 Estimate (8)	8.0000	9	0.0000 0.0000	9	0.0000	<u>8</u> .	0.0000	<b></b>
18 5 Actual (A)	0,4715	0	8.8570	à	0.4715	ě	1,0000	193.5
18 5 Estinate (8)	8,4697		8.8687	9	0.4695	į ė	1.0000	
18 \$ (A)-(8) (C) 19 \$ Actual (A)	0.6817	8	6.0037 8.0080	0	0.8020	0	1.0000	40.6
19 S Estimate (B)	0.0000	0	8.0888	8	0.0000	8	8.0080	7,017
19 5 (A) - (B) (C)	8.0080	8	8.8888	0	8.8988	0		
28 5 Actual (A) 28 5 Estimate (8)	0.6451	<u></u>	0.0543 0.0581	0	0.2987 0.2967	9	1.0000	387.0
28 5 (A)-(8) (C)	0.2019	8	-8.8839	0	0.0020	8		
21 5 Actual (A)	0.7319	8	8.8148	8	0.2533	. 9	1.8688	256.6
21 5 Estimate (8) 21 5 (A) - (B) (C)	0.7302	8	0.8179 -0.0831	0	0.2519		1.8008	}·····
22 5 Actual (A)	0.5604	0	8,1159	0	0,3237	. 8	1,0000	41,4
22 5 Estinate (8)	8.5584	9	9.1197	0	0.3219	8	1.0000	
22 5 (A) - (8) (C) 23 5 Actual (A)	8.8828 8.1818	8	-0.0038 0.7273	8	0.8818 0.8989	0	1.8000	8.6
23 5 Estinate (B)	0.1836	9	0.7247	0	0.0916	0	1.0000	
23 5 (A) - (B) (C)	-0.0018	0	8.0825	- 8	-0.0007	- 8		
24 5 Actual (A) 24 5 Estinate (B)	8.8888		0.6567 0.6647	8	0.3333 0.3353	8	1.0080	1.2
24 5 (R)-(B) (C)	8.6669	Ø	0.0020		-8,8828	0		
6 6 Actual (A) 6 6 Estimate (B)	0.3946	8	0.0000 i	. e	8.6054	0	0.0000	369.7
6 6 (A) - (B) (C)	0.0008		8.0880		0.6699 0.6699	8		
7 6 Actual (A)	0.9294		8.9989	8	0,6796	8	1,0000	34,8
7 6 Estimata (B) 7 6 (A) - (B) (C)	8.0000	9	0.0000	0	0.0000	8	0.0000	
8 6 Actual (A)	0.7579	ē	8.0759	ě	8,1862	0	1.8888	69.8
8 6 Estinate (B)	0.7560	8	8.0795	(e)	8.1645	0	1.0000	
8 6 (A) - (B) (C) 9 6 Actual (A)	0.0019	<u>8</u>	-0.0036 8.0000	8	0.8817 0.2116	8	1.0000	34.5
9 6 Estinate (B)	0.0000	9 ]	9.6888	ïäj	0.0000	0	0.0000	
9 6 (A)-(B) (C)	0.0000	8	8.6888	8	8,0000	8		
18 6 Actual (A)	0.8731	9	0.0558 0.0595	0	0.8711 0.8691	<u>e</u>	1.8008	59.1
18 6 (A)-(B) (C)	8.0017	8	-0.6037	0	8.9929	0	-	
11 6 Actual (A)	0.9063 L 0.8698 [		6,6989	8.∤	8.0938	9	1.0000	22.4
11 6 Estimate (8)	0.0000		8.0000	8	0.0000 0.0000	~;}	0.8088	
12 6 Actus) (A)	0.8601		8.6171	. 0	0.1229	. 0	1,6066	29.3
12 6 Estinato (8)	0.8582		9.0206 -0.0037	. 0	0.1210		1.8886	
13 6 Retust (A)	0.9633	ĕ	0.0000	0	0.0367	0	1,0000	144,5
13 6 Estinato (B)	8.0000	В	8.0000	. <u>g</u>	0.6600		0.0000	
13 6 (A)-(B) (C) 14 6 Actual (A)	9.9882	8	0.0169	8	8.8888	8	1.0000	41.4
14 6 Estinato (8)	8.9863	8 ]	8.0208	8	0.8729	0	1.0000	
14 6 (A) - (B) (C)	0.0019	0	-0.8039	8	0.8828	0		
15 6 Actual (A) 15 6 Estimate (B) 15 6 (A)-(B) (C)	0,4892 0,0000	<u>9</u>	9.0999	9	0,5108 0.0008	8	1,0200	83.6
15 6 (A) - (B) (C)	8,8698	. 0	0.0899	8	8.6888	_21		
16 6 Actual (A) 16 6 Estimato (B)	0,8300	0	0.0553	. e	0,1146 0.1126	e.	1.0308	25.3
16 6 Actual (A) 16 6 Estimato (B) 16 6 (A)-(B) (C) 17 6 Actual (A) 17 6 Estimate (B) 17 6 (A)-(B) (C)	0.8281 0.9028	8	-8.0038	9	0.0018	0_	1.0000	
17 6 Actual (A)	8,8966	e	8.0980	8	0.1034	9	1.0000	11.6
17 6 Estimate (8) 17 6 (A)-(B) (C)	9.0000 9.8896	B	0.0000 0.0000	9	9.0000	. 8	0.0330	
18 6 Actual (A)	0.2233		8.2788		8,4979	. ø. J.	1.0000	190.8
18 6 Estimate (8)	0.2213	<u>8</u>	8.2820	0	8.4967		1.8008	
18 6 (A)-(B) (C) 19 6 Actual (A)	0.0020 0.6959		-0.0031 0.0300		0.8812	8	1,0008	17.1
19   6   Estinate (8)	0.0000	0	8.8888	8	0.0000	0 ]	0,6206	
	0,8088 8,3994	- 8	8.8888 8.1582	Ø	8.8888	8	1.8003	
28 6 Actual (A) 28 6 Estinate (B)	0.3985	9	0.1527	. 9	8.4505 8.4488	8	1.0000	266.4
20 6 (A) - (B) (C)	0.0009	8	-0.0025	8	8.0017	<u>. 6 [</u>		

Zone Zono	Item	Reil		Air	( <del></del>	Auto		Total	Total Pax.
<u> </u>	Actual (A)	0.5234	Ø	0.0139	8	0.4626	8	1.8008	157.8
21 6	Estimato (8)	0.5216	9]	8.8178	8	8,4687		1.6008	
21 6.	(A) - (B) (C)	0,8019 8,4234	8	-0.0038 0.0438	8	8,8828 8,5328	8	1.0008	27.4
25 6	Rotual (A) Estimate (B)	8.4214	0	8.8475	0	8.5311	[ 0 ]	1.8008	
22 6	(A)-(B) (C)	8.0020	B	-0.0037 0.7778	8	8.0817 8.1111	-8 -8	1.8008	3.8
23 6	Actual (A) Estinato (8)	8.1111 8.1129	0	8 7758	[ 0]	8.1113	e j	1.8008	
23 6	(A)-(B) (C)	-8.0018	Ę.	8.6828	0	-0.0802	8	1.0008	9.8
24 6 24 6	Actual (A) Estimate (B)	0.0000	8	8.5000 8.5018		0.5808 0.4990	ő	1.8888	
24 6	(A) - (B) (C)	8.0980		-0.0810		6.0818	8		OF 6
77.	Actual (A) Estimate (B)	0.2530 0.2546		8.0086 8.0089	8	9.7384 9.7365	8	1.0000	955.4
$\frac{7}{7}$	Estimato (B) (A)-(B) (C)	-0.0017	ë	-8.0883	8	0.0020	8	-	
87.	Actual (A)	8.6687	9	0.8479 8.8516	8	0.2834	9	1,8000	98, J.
8 7	Estinate (B) (A)-(B) (C)	0.6670	8	-0.8037		8.0020	0		
9 7	Actual (A)	0.5975	8	9.8999	0.	0.4025	9	1.6689 8.8888	64.6
9 7	Estinate (8) (A) - (B) (C)	8.6668 8668.9	9	0.0030	8	8.8888	อ		
19 7	Actual (A)	0.8877	a	0.8025	. 0	8,1898	9.0	1.0000	161.2
10 7	Estimate (8)	8.8857 0.8020	8	9.0064		8.1878 8.8828	0	1.0000	
19 7	(A)-(B) (C) Actual (A)	8.4558	e	9.0808	0	8,5458	Ø	1.8808	399.3
. 11 7.	Estimate (8)	0.0000	8	9.8888 9.8888	0	9.8888 3.8888		8.8988	
11 7	(A) - (B) (C) Actual (A)	8.8658 8.8658	8	8 8888	Ø	0.1358	Ø	1.9000	63.7
12 7	Estimata (B)	8.8888	8	0.0000	. 0	0.8868	8	8,8088	
12 7	(A) - (8) (C) Actual (A)	8.9099 8.9099	8	8.0088	0	0.0000 0.0988	o l	1,0000	1133.1
13 ?	Estinata (B)	8.8989	8	8.8843	9	0.0968	9	1.8089	
13 7	(A)-(B) (C) Actual (A)	8.9396	8	8.9888	8	0.0028	0	1.2008	97.7
14 7	Estinate (B)	8668.0	P	0 0000	0	0.0000	8	8.9998	
14 7	(A) - (B) (C)	0.0000	8	0.0000	8	0.0888	9	1.0000	109.5
15 ? 15 ?	Actual (A) Estimato (B)	0.3799 0.8808	8	0.0000	Ě	0.0000		8.0008	
15 7	(A)-(B) (C)	9.8000	8	0.0000	8	0.0080	8	1.0809	48.4
16 7 16 7	Actual (A)   Estimate (B)	6,8760	9	0.0000	<u>6</u>	0.0000	8	9.0003	
16 7	(A)-(B) (C)	8.8888	8	8.0800	0	0.0000	0	1,0800	21.8
17 7	Actual (A)   Estimate (B)	0.9633 0.0000	8	8.0800		8.0088	9.	0.0000	
17 ?	(A)-(B) (C)	0.8000	9	6.8888	0	9.6668	0	1 0200	89.5
18?	Actual (A) Estimate (B)	8.2693 8.2697	0	8,5689 8,5585	0	0.1698	ø.	1.0000	93, 9.
18 7	(8) - (8) (C)	-8.8885	9	0.0024	- 8	-0.0028	0		
19 ?	Actual (A) Estimato (B)	0.2532	8	6.0000 6.0000	8	0.7468		1.8888	131.9
19 7	Estimate (B) (C)	0.9898		8.0390	ě	8.6639	8	-	
28 ?	Actual (A)	9.7882	9	0.8589 8.8626		0.2329	<u>0</u>	1.0888	231.0
20 7	Estimate (8) (A)-(B) (C)	0.7064 8.0018	e	-0.0037	. 8	0.8819	0	-	
21 7	Actual (A)	8.7669		0.0180 0.0218		0.2151 0.2131	. 0 . 8	1.0000	177.6
21 7	Estinato (B) (C)	8.7651 0.8318	8	-8.0837		8.8820	6		
22 7	Rotue) (A)	0.5556	8	6.8356	0	0.4089 0.4072	8	1.8008	45.0
22 7	Estinato (B) (A)-(B) (C)	0.5536 0.8020	9	0.0392  -0.0037	0	0.8817	( 8	1.0008	
23 7	Actus! (A)	8.2558	Ø	0.4884	0	0,2558	8.	1.0000	8.6
23 7	(A) - (B) (C)	8.2539 8.8028	<u>e</u>	0.4923  -0.8839		0.2538 0.8028	0	1,0000	
24. ?	Actual (A)	0.8098	0	8.3750		0.6250		1,0000	1.8
24 7	Estimate (8) (A) - (B) (C)	0.8008		-0.8012	<u>@</u> .	0.6238 0.8012	0	1.8888	ļ
6 8	Actual (A)	8.8935	8	0.0000	Ø	0.9865	Ø.	1.0808	2765.7
8 <b>8</b>		8.8868 9.8888	9 B	0.0000	8	9,888.6 9699.6	9	0,0000	
	Actual (A)	0,1989		8.0800		8.8911	9	1.8088	2103.3
9 8	Estimate (8)	8.8608 8.8683		8.8888 8.8888	0	0.0000	0	0.0000	<del> </del>
18 8	Actual (A)	0.8526	0	0.0063			Į į	1,0000	175.7
10 8	(8) Stanite3	0.8511	8	8.0897 -8.0835		8.1392	0	1.0000	<b>† · · · · · · · · · · · · · · · · · ·</b>
10 8	(A)-(B) (C)	1 0.0013		<u> </u>				·	~

	- *								
Zone Zone		Rail	<u> </u>	Rir	1	Auto	T	Total	Total Pax.
1-01-01		0 2267	8	0.2000	ë	0.2643	8	1.0000	66.6
<u>!</u> !	Actual (A).	0.0000	9	8.8888	ŀ··ě	0.0000	ė	0.0000	†······
11 8	Estinate (B) (C)	8 8368	Ö	8.0000	· ě	0.0000	ě	{ <u>q.v.</u>	+
		8.8499	8	8.8842	- ě	0.1459	Ď	1.0000	79.6
12 8	Estimato (8)	0.8480	ĕ	9.8881	ě	8.1448	[ ] e	1.0030	<b>†</b> ·····
15 8	(A) - (B) (C)	9.8619	e	-0.0638	· · · ·	8,6019	lě.	}X:X2PX	
13 8	Actual (A)	0.9360	ě	8.6672	8	8.8567	ĕ	1.0000	567.6
13 8	Estimate (8)	0.9341	ě	0. e i i i	l Ö	0.0547	Ö	0560.1	1
13 8	(A)-(B) (C)	0.0019	i i i	-8.0039	· e	0.8828	Ö	1	1
14 8	Rotuel (A)	0.8740	B	9.8426	9	0.8835	. 8	1.8000	155.5
14 8	Estimate (8)	0.8721	Ø	8.0460	Ø	0.0819	,	1.0000	1
14 8	(A) - (B) (C)	8.0019	Ö	~0.0035	0	8.0016	3		Ī
15 8	Actual (A)	9.0350	. 0	9.0890	0	8.9650	8	1.8888	1158.8
15 8	Estinete (8)	8.9300	8	0.0000	[ 0]	0.2889	0	8.0000	
15 8	(A)-(B) (C)	8.8880	8	8.8080	8	0.8888	0		
16 8	Actus) (A)	0.5669	0	0.0000	. 0	0.4331	0	1.0000	91.9
16 8	Estinata (B)	0.0000	9	9.0000	. 0	8.6000		0.9000	
16 8	(A)-(B) (C)	0.0000	9	9.0000	9	8.0800	8		
17 8	Actual (A)	8.7300	3.	8.0890	. 0	3.1819	8	1.8808	33.7
	Estinate (8)	8.7288	8	0.0916	8	0.1884	8.	1.8088	<b></b>
17 8	(A) - (B) (C)	8.8020	0	-0.8826	8	0.8886	8-		J
188.	Actual (A)	0.4211	8	0.8644.	9.	0.5144	8	1.0000	90.0
18 8	Estimate (8)	0.4191	8	8.8681	0	0.5128		1.0000	<b>{</b>
18 8	(A) - (B) (C)	0.0028	8	-8.9837	-0	0.0817	0	1.0000	15, 9
198.	Actual (A)	0.2141	<u>B</u>	8,8888	0	0.7859 0.8889	0	0.0000	151.3
19 8 19 8	(8) (8) (C)	0.8000	9	0.0888	0	0.8888	<u>s</u>	- 0.0000	<b>†</b> · · · · · · · · · · · · · · · · · · ·
19 8	Actual (A)	2.4998	9	8.0765	0	0.4237	8	1.8098	475.8
20 8	Estimate (8)	8.4979	8	6.0803		8.4217	Ø	1.0000	37%17.4
29 8	(A) - (B) (C)	0.8018	ě	-6.8838		0.8928	ė		
21 8	Actual (A)	0.5819	8	8.0042	9	0.4139	Ø	1,0000	333.4
21 8	Estinate (B)	0.5801	0	9.9983	0	0,4119	9	1.8668	1
21 8	(R)-(B) (C)	0.0018	0	-8.0038	0	0,8628	8		
22 8	Rotusi (A)	8.1265	8	0.8008	Ø	8.8726	. 6	1.0000	967.4
55 8	Estimata (B)	0.1246	0	0.0043	0	0.8711	Ø	1.0000	
55 8	(A)-(8) (C)	0,2019	B	-8.0035	8	8.0015	0_		
238	Actual (A)	0.1486		9.1216		8,7297	0.	1.0000	14.8
238	Estinata (B)	0.1468	<u>e</u>	9.1255	9.	0,7277		1.8600	
23 8	(A) - (B) (C)	0.0019	0	-8.0839	. 0	0,8828	- 8		
248.	Actual (A)	0.8000	8	0,1053	ڰ਼ }	0,8947	%	1.8688	3,8
24 8	Estimate (8)	0.0000	9	0.1871		0.8929	. 9	1.6008	
9 9	(A) - (B) (C) Actual (A)	0.0000	9	-0.0019 0.0003	8	0.0019	8	1.0000	1221.9
9 9	Estimate (B)	8.1374	····ë	6.0000	~~ 🎖	0.8626	ě	1.0000	
	(A) - (B) (C)	-8.0020	ë i	8.0000	~~~~~	8.0017	···ě		
18 9	Actual (A)	8.7944	ĕ	8.8999	0	8.2856	Ö	1.8008	117.2
10 9	Estinato (B)	8.0000	8	8, 9999	· i	8.0000	8	0.8008	
10 9	(A)-(B) (C)	8.8869	Ø	8.0986	8 j	0.0000	0		
11 9	Actual (A)	0.8519	Ø	0.0380	0	0.3481	9	1,0000	45.1
11 9	Estinata (8)	0.9099	0	9.0968	0)	0.6903	. ê	0.0020	l
11 9	(A)-(B) (C)	0.0003	9	0.0000	<u> </u>	0.0000	6		
129.	Actual (A)	9.7845	9	8.0888		0,2155	0.	1.8668	46.4
12 9	Estinato (8)	0.8898	🙎	9.0000		0,0000	0	0.0000	ļ
12 9	(A) - (B) (C)	0.0000	_ 2 [	0.0000	- 6	8,0000	B		
13 9 13 9	Actual (A)	0,9101	8			8,9899	8.	1.0080	351,6
13 9 13 9	Estimate (8)	8.8888	<u>8</u>	8.0880	8	8.8888		0.0000	
	(A) - (B) (C)	8,8888		8.0886		0.1105	8	1.8900	72.4
14 9 14 9 14 9	Actual (A) Estimate (B)	8.8895 6.0000	8	8.0880	9	0.8008	. 0	0.0000	
14 9	(A) - (B) (C)	0.8608	รู้∤	0.0800	ø	8.8888	. 0		
15 9	Actual (A)	8.1148		8.0880	0	8.8863		1.8008	444,9
15 9	Estinata (B)	0.2009	8 9 8	0.0000	0 1	6.0000	B	0.0000	
15 9	(A)-(B) (C)	8888.0		0.0000	8	8.9698	3		
16 9	Actual (A)	8.5597		0.0125	0	8.4278	8	1.0000	56.1
16 9 16 9	Estinato (B)	0,5579	8	0.0163	e 9	8.4258		1.0000	
1 16 9	(A1-(B) (C)	0.8819	8	-0.0039	.0	6.8828	. 8	[	
17 9 17 9 17 9	Actual (A)	0.7946	8	0.0000		0.2854	9.	1,0800	18.5
9.	(8) stanite3	0.0000	8	0.8088	9	8698	<u>@</u>	8.9999	
17 9	(A) - (B) (C)	0.0000		8.8989		0.8088	9		
18 9 18 9	Actual (A)	0.4381	6 6	0 . 0 9 9 9	<u>@</u> .	0.5619	. 0.	1.0000	45.2
18 9	Estimate (8)	0.0000	<u>g</u> /	0.0000	8	9689.0	8-1	6.9609	
18 9 19 9	(A)-(B) (C) Actual (A)	0.0000 0.1563	8	8.0808	0	0.8437	8	1.8008	130,5
19 9 19 9 19 9	Estinate (8)	6.6668	8	9.0000	8	0.0000	8	6.6909	
19 9	(A) - (B) (C)	6.6006	···ě	0.0000	~ë∤	6.6866	··ě		

Zone Zone	Item	Reil		Air		Auto	· · · · ·	Total	Total
(i) (i)			-						Pax.
28 9	Actual (A)	0.4451	8	0.0300	0	8.5250		1.0008	320.4
28 9	Estinato (B)	0,4431	8	8.0338 -8.2839		0.5231	8	1.0000	<b> </b>
20 9 21 9	(A) - (B) (C) Actual (A)	8.0020 8.4962	8	8.0893	Ď	8,4945	9	1.6068	236.2
21 9	Estinata (8)	0.4942	e l	0.8132	0	8.4925	[ ] 9	1.0008	[]
21 9	(A)-(8) (C)	8.8619	0	-0.8039	0	0.0020	9		<b> </b>
55 8	Actual (A)	8.1209	8	0.0025	0	0.8766 0.8748	8	1.0000	489.6.
22 9	Estinate (B) (A) - (B) (C)	0.1189 0.0020	ë	-8.8838		0.0018			<b>† · · · · · · · · · · · · · · · · · ·</b> {
53 8	Actual (A)	8.1522	9	0.3043	Ō	8.5435	9	1.0000	9,2
23 9	Estimate (8)	0.1594	0	0.3081	9	0.5415		1,0000	[]
23 9	(A) - (B) (C)	8.8817	8	-8.0837	<u>. 0</u>	0.0020	- 8	1.0000	<del></del> -{
24 9	Rotual (A) Estimate (B)	0.0000 8.0000	8	0.1429	0	0.8571 0.8554	9	1.8888	2,8
24 9	(A)-(B) (C)	8.0000	ě	-8.0018	Ö	8.0818	Ö	-	<u> </u>
10 10	Actual (A)	8.8197	8	9.8388	. 9	0.3803	. 9	1,0000	1004,4
10 10	Estinate (B)	8.8838	0	8.0800	<u>Q</u> .	0.9863		0.0000	<b>ֈ</b> ∤
18 18	(A) - (B) (C) Actual (A)	8.8000 8.8000	8	0.0000	9	0.0000 0.2000	8	1.0000	121.5
11 18	Actual (A)   Estinate (B)	0.0000	8	8.0080	Ö	8.8888	ø	0.8888	
11 18	(A) - (B) (C)	8.8898	0	9.0888	0	0.0000	. 8	-	[]
12 10	Actual (A)	0.6830	B	0.2802		0.3170	0.	1.0088	394.7
12 18	Estimate (B) (A) - (B) (C)	8.0090 8.0000	8	0.2020	0	0.0000 0.0000	8	0.8080	<b>∤</b>
12 18 13 18	(A) - (8) (C) Actual (A)	8.8992	0	0.0000	9	8.1888	8	1.0000	1108.9
13 10	Estinate (8)	8.8888	e	0.8800	0	0.8880	0	0.0000	[]
13 10	(A)-(B) (C)	0.0000		8.0800	8	0.0800	. 0		I
14 10	Actual (A) Estimate (B)	0.8710	8	0.2932 8.2933		0.1290 0.0868	0	1,8089 9,8088	269.7
14 10	Estimate (8) (A)-(8) (C)	8.8698	<del></del>	8.8888		8.9900			······
15 10	Actual (A)	0.3342	Ø	0.0890	Ø	0.6658	9	1.8008	186.4
15 10	Estinata (8)	0.0000	8	0.0000	0	6.0868	0	9.8008	
15 18	(A) - (B) (C)	0.0000	0	0.0000	0	8.9868	8_	1.8888	120 2
16 18 16 18	Actual (A) Estimate (B)	0.9018 8.8999		0.0039 0.0078	9.	0.0943 0.0923		1.8208	128.3
16 18	(A) - (B) (C)	8.6619	9	0.0039	Ö	8.9828	8	<del>.</del>	
17 10	Actual (A)	0.8374		0.0000	8	0.1526	0	1.8688	28.9
17 10	Estimato (8)	8.0000	9	0.2888	. 0	8.9888	0	9.8868	<b> </b>
17 18	(A) - (B) (C) Actual (A)	0.8008 0.8194	8	9.8888	8	0.0800 0.3806	8	1.0080	62,7
18 10 18 10	Actual (A)   Estimate (B)	8.0008	อ	0.0890	···ě	0.9800	···ě	8,888.6	331
18 10	(A)-(B) (C)	0.6608	18	9.2038	. 8	0.0800	0		
19 18	Actual (A)	8.5807	8	9.8088	9.	0.4193		1.6668	67.5
19 18	(A)-(B) (C)	8.8888	8	0.0000	9	0.0000 0.0000	0	0.0000	····
19 10 28 10	(A) - (B) (C) Actual (A)	0.8888	0	8.1365	. 8	0,2239	Ö	1.0008	281,4
29 10	Estinate (B)	0.6382	ē	8,1374	8	8.2244	[ 8	1.8889	[]
28 16	(A)-(B) (C)	0.8014	8	-6.8839	0	-0.0005	. 0		100.0
2119.	Actual (A)	0.7585		8.0287		0.2128	8	1.0000	188.0
21 18	Estimate (B) (C)	0.7566 0.0019	<u>e</u>	0.0325 -0.0038	8	0.0019	. 8		
22 18	Actual (A)	8,6347	8	0.8639	Ø	0.3014	8	1.0000	43.8
25 10	Estimata (8)	8.6327	0			0.2996		1,0008	ļ
22 18	(8)-(8) (C)	8.0020	<u> </u>	-0.0038 0.7143	0	0.0018 0.1224	8	1.0088	9.8
23 10 23 10	Actual (A) Estimate (B)	8,1633 8,1638	9	0.7118	ë-	8.1244		1.0008	<b> </b>
23 18	(A)~(B) (C)	-8.8885	8	0.0025	0	-8.8820	9		[]
24 10	Actual (A)	8.9008	0	0.6667	0	8.3333		1.0000	1.8
24 18	Estimate (8) (A)-(8) (C)	6,8668	8	8.6647 8.8828		0.3353 -0.0820	0	1.0000	<b>}</b> {
24 18	(A) - (B) (C) Actual (A)	8.4334	8	8.0083	0	0.5577	8	1,6000	468.3
1. 11 11.	Estinato (8)	0.4353	[ 0	8.0089	0	0.5557	8	1.0000	[
11 11	(A) - (B) (C)	-0.0019	8	0.0000	8	0.8028	0		<b> </b>
12 11 12 11 12 11	Actual (A)	0.7918	} <u>B</u> .	8.0000 8.0000	8	0.2082	0.	1.0000 8.0000	46,6
12 11	Estinata (8) (R)-(8) (C)	8.0808 8.0889	8	8.0000	6	0.0066			<b>}</b> {
13 11	Actuel (A)	8,7151		6.0000	8	0.2849	0	1.0000	891.9
13 11	Estineto (8)	8.0008	[8.	8.0808	0	0.0000	[ Ø .	0.0000	<b></b> ]
13 11	(A) - (B) (C)	8.0880	8	8.0800	0	0.8987	8	1,8808	66.9
14 11	Actual (A) Estimato (B)	0.9913 0.0000	8	6,0909 6,9989	0	3.8000	8	0.0000	<u>ֈ</u>
14 11	(A) - (B) (C)	0.8808	8	8,8869	0	0.0000	8	-	<u> </u>
1511.	Actual (A)	0.2835		8.8835	0	0.7129	B	1,8088	85.8
15 11 15 11 15 11	Estinato (8)	0.2815	0	0.8873		1 0.7112		1,0000	<b></b>
[ 15 11	(A)-(B) (C)	0.0020	1	-0.0038	0	0.0018	1	<u> </u>	<b></b>

16 11 Actual (A) 8.7696 0 0.0163 0 8.2141 8 1.8888	Ρεχ. 36.9
16 11 [Estimate (6)   8.7678 [ 8 ] 6.8281   8 ] 6.2121   9 ] 1.2398	
16 11 (A) - (B) (C) 6.8019 8 - 6.0039 8 8.8028 8 - 17 11 Actual (A) 6.8182 8 8.8000 9 6.1818 8 1.8000	12.1
17 11 Estimate (B) 0.0000 B 0.0000 0 0.0000 0 0.0000	[
17 11 (A)-(8) (C) 0.8208 8 0.8008 0 0.6880 0 -	
18 11 Actual (A) 0.5548 0 0.0000 0 0.4452 0 1.8000	28.3
18 11 (A)-(B) (C) 8.9888 9 0.8888 9 0.8888 9 -	
19 11 Actual (A) 8.3155 0 8.0000 9 8.8845 0 1.0000	89.7
19 11 (A)-(B) (C) 0.0000 8 0.0000 0 0.0000 0 -	
20 11 Actual (A) 8.6811 8 8.8677 8 0.3312 0 1.8888	189.0
28 11 Estimato (B) 0.5991 0 0.8714 0 0.3295 8 1.8888 28 11 (A)-(B) (C) 0.8828 6 -0.8836 0 0.8817 8	
21 11 Actual (A) 0.6831 B 0.0014 0 0.3155 B 1.0002	138,2
21 11 Estimate (B)   0.6811   8   8.0054   0   0.3135   0   1.0000   21   11 (A)-(B) (C)   8.8828   8   -8.0040   0   0.0020   B   -	
22 11 Actual (A) 0.5327 0 0.8056 0 0.4637 0 1.9080	35.8
22 11 (estimate (8) 0.5287 0 0.0094 0 0.4619 0 1.8088	
22 11 (A)-(B) (C) 0.0020 0 -0.0038 0 0.0018 0 - 23 11 Actual (A) 0.3333 0 0.0741 0 0.5926 0 1.0000	5.4
23 11 Estimate (8) 0,3314 0 0,8778 0 8.5988 0 1.8099	
23 11 (A)-(B) (C) 8.8819 B -8.8837 B 9.8918 B - 24 11 Actual (A) 8.8880 B 8.8890 B 1.8888 G 1.8888	1,2
24 11 Estinate (8) 0.0000 0 0.0000 0 0.0000 0 0.0000	
24 11 (A)-(8) (C) 0.8008 0 0.8008 0 0.8000 8 -	400.0
12 12 Actual (A) 0.4769 0 0.0880 0 0.5231 8 1.8008 12 12 Estimate (B) 0.0800 B 0.0800 0 0.8000 0 0.8000	439.9
12 12 (A)-(B) (C) 0.0000 B 0.0000 0 0.0000 B	
13 12 Actual (A) 0.9031 8 0.8080 0 0.8959 0 1.8080 13 12 Estimate (B) 0.8080 0 0.8888 0 0.8880 0 0.8080	337.3
13 12 (A)-(B) (C) 0.0000 0 0.0000 0 0.0000 0 -	
14 12 Actual (A) B.6198 8 8.8888 8 0.3818 0 1.8888	378.5
14 12 Estimate (B) 0.0008 B 0.0009 0 0.0000 B 0.0000	
15 12 Actual (A) 9.3974 B 8.6868 8 0.6826 8 1.8888	69.2
15 12 Estimate (8) 8.0000 9 0.0000 0 0.0000 0 0.0000 15 12 (A)-(B) (C) 0.0000 0 0.0000 0 0 0.0000 0 -	
16 12 Actual (A) 0.8622 0 0.0842 0 0.1336 0 1.6000	47.9
16 12 Estimate (8)   8,8603   8   8,8081   8   0.1316   9   1,8083	
16 12 (A)-(B) (C) 9.8019 6 -8.0039 6 0.8820 0 - 17 12 Actual (A) 0.5054 6 0.8080 8 0.4946 8 1.8088	18.4
17 12 Estimato (B) 8.0000 8 0.0000 9 0.0000 0.0000	
17 12 (A)-(B) (C) 8.8889 8 8.8888 8 8.8888 8 - 18 12 Actual (A) 8.3664 9 8.3198 9 8.3138 9 1.8888	49.4
18 12 Estimate (8) 8.3644 0 0.3236 0 8.3120 0 1.0000	
18 12 (A)-(B) (C) 0.0020 0 -0.0038 0 0.0818 8 -	
19 12 Actual (A) 0.6231 0 0.0000 0 0.3769 0 1.0000 19 12 Estimate (B) 0.0000 B 0.0000 0 0.0000 0 0.0000	26.8
19 12 (A)-(B) (C) 0.0008 0 0.0000 0 0.0000 0 -	
28 12 Actual (A) 0.5888 8 9.8258 0 8.4670 0 1.8080 28 12 Estimate (B) 0.5867 0 0.8277 0 0.4656 0 1.8088	599.6
20 12 (0)-(8) (0) 6.8613 0 -0.6827 0 0.8814 0 -	
21 12 Actual (A) 0.5769 B 0.0088 B 0.4143 8 1.8608	136.6
21 12 Estimate (6) 0.5751 0 0.0126 0 0.4124 0 1.0000 21 12 (A)-(B) (C) 0.0018 0 -0.0036 0 0.0020 0 -	
22   12   ACLUBI (A)   0.5081   0   0.0242   0   0.4677   0   1.0000	24.8
22 12 Estimate (6)   0.5061   0   0.0282   0   0.4656   0   1.0028   22   12   (A)-(B)   (C)   0.8028   0   -0.8048   0   0.8020   0	• • • • • • • • • • • • • • • • • • • •
23   12   Actual (A)   8.2000   9   0.4667   9   0.3333   9   1.0008	3.8
23 12 Estinato (8) 0.2009 0 0.4638 0 0.3353 0 1.0000 23 12 (9)-(8) (C) -0.0009 0 0.0029 0 -0.0020 0	
24   12   Actus   (A)   0.0000   0   0.2500   0   0.7500   0   1.0000	6.8
24 12 Estimate (B)   0.8000   D   0.2514   0   0.7486   0   1.0000	
24 12 (A)-(B) (C) 0.0000 B -8.0014 0 3.0014 0 - 13 13 Actual (A) 0.6709 8 0.0000 0 0.3291 0 1.0000	3846.5
13 13 Estimate (B)   0.0000   0   0.0000   0   0.0000   0	
13 13 (A)-(B) (C) 0.8060 0 0.0060 0 0.8600 0 14 13 Actual (A) 8.8947 0 0.0600 0 0.1053 0 1.6000	<del>380 /</del>
14 13 Actual (A) 8.8947 0 0.0000 0 0.1053 0 1.0000 14 13 Estimate (B) 8.8000 8 0.0000 0 0.0000 0 0.0000	388.4
14 13 (A)-(B) (C) 6.8888 0 8.8888 0 -	
15 13 Actual (A) 0.5891 0 0.8108 0 0.4001 0 1.0000 15 13 Estimate (8) 8.5872 0 0.8147 0 8.3981 0 1.0000	323.7
15 13 Estimate (8) 8,5872 0 0 6,6147 0 8,3981 8 1,0200 15 13 (A)-(B) (C) 8,0019 0 -8,0039 0 6,0020 8 -	

Zone Zone	I tom	Rail		118		Auto		Total	Total
10 10	Actual (A)	0.9313	ø	0.0000	9	0,8687	9	1.8002	Pax. 330.2
16 13 16 13	Estinate (B)	8.8888	ě	6.6986	0. 1	0.8000	. 0	0.8000	
16 13 16 13	(A) - (B) (C)	8.8000	8	9.9889 9.9888	-8	0.9900	0	1.8893	56.1
17 13. 17 13	Actual (A). Estimata (B)	0.9218 9.0000	9	9.8088	9	0.2888	Ø	0.0000	
17 13	(R)-(B) (C)	8.0000	8	9,8898	. 0	0.0000	0	1.8868	133,3
18 13 18 13	Rotual (A) Estimate (B)	8.8888	8	9.9999	9	0.8800	9	8.8868	
18 13	(A) - (B) (C)	8.8928	Э	9,9999	8	0.8866	0	4 0000	
1913.	Actual (A) Estinate (B)	8.7489 0.0000	8	9.9999 9.9999	9	0.2511	. 0	1.2000	244.5
19 13 19 13	(A) - (B) (C)	8.8888	8	8.8888	8	0.0000	Ò	-	
28 13	Actual (A)	8.4765 8.4745	9	0.1841 0.1081	9	0.4194 0.4175	9	1.8888	420.6
20 13	Estimato (B) (A)-(B) (C)	8.8020 8.8020		-0.8839	9	8.8819	0		
21 13	Actual (A)	0.5845	8	8.0843	0	8.4112 8.4892	0	1,8068	279.2
21 13	Estinate (B) (A)-(B) (C)	8.5826 8.8020	8	-0.0039	2	0.0019	0		
22 13	Actuel (A)	8.4337	8	8.8753	8	8.4918	Ø	1.8889	66.4
22 13	Estimate (B) (A)-(B) (C)	8.4318	8	8.8172 -8.6819	8	0.4918 -8.8861	0	1.8008	••
23 13	Actual (A)	8.2564	9	0.2851	8	2,5385	P	1.8888	7.8
23 13	Estimate (B) (A)-(B) (C)	8.2545 8.8828	9	6.2898 -6.8839	8	0.5365 0.0019	0	1.8880	
23 13 24 13	Actual (A)	8,8088	В	8.8989	0	0.9891	0	1.8008	2.2
24 13	Estinato (B)	8.8888	9	8.0927 -8.0818	8	0.9073	9	1.8008	
24 13 14 14	(A)-(B) (C) Actual (A)	8.9998 8.5196	8	6 6686	9	0.4804	Ð	1.8888 8.8888	586.8
14 14	Estinato (B)	8.8698	8	8.8898	8	0.8880	ø	8.0808	
14 14 15 14	(A) - (B) (C) Actual (A)	8.8888 8.4568	8	8.0808	8	0,888B 0.5432	0	1.0008	90.2
15 14	Estinate (B)	8.8088	0	6.8886	0	8.8888	9	8.0808	
15 14 16 14	(A) - (B) (C) Actual (A)	8.9252 8.9252	8	8,8898	8	0.0800	9	1.0000	78.9
16 14	Estinata (B)	8.0000	0	9.8988	9	8.6988	9	1.0000 0.0000	
16 14 17 14	(A)-(B) (C) Actual (A)	0.8063	8	8.0000	8	0.0000 0.1938	0	1.0008	16.8
17 14	Estinate (B)	9.6689	В	8.8828	[ 8 ]	0.0888	9	9,0000	
18 14	(A)-(B) (C) Actual (A)	8.0000 0.6335	8	8.8888	0	0.0000	0	1.9809	44.2
18 14 18 14	Estinate (B)	0.8000	Ø	0.0880	Ø	0.0000	9	0.0808	
18 14 19 14	(A)-(B) (C) Actual (A)	0.0000	9	9.0089	0	8.0800 8.2557	0	1.0000	39.5
19 14	Estinate (B)	0.0000	0	8.8888	Ø	8.0000	9	0.0000	
19 14	(A)-(B) (C) Actual (A)	0.0003 0.6237	8	9.9000	0	8.8868	8	1.0000	189.2
20 14 20 14	Estimate (8)	8 6228	0	8.9957	0	0.3723	ø	1.8868	
28 14	(A) - (B) (C)	0.6844	9	-8.8836 8.8888	0	0.0019	8	1.8088	131.8
21 14 21 14	Actual (A) Estimato (B)	0.0000	8	8.0080	0	0.0000		8.8889	
21 14	(A) - (B) (C)	0.0000	8	8.9399 9.8889	8	0.0000	0	1.0000	21.8
22 14 22 14	Actual (A) Estinato (8)	0.6095 0.0090	6	8.8889	Ø	0.8898	9	0.0000	
22 14 23 14	(A) - (8) (C) Actual (A)	0.0008	8	0.0000	0	0.0000 0.3750	0	1.0200	1.6
23 14 23 14 23 14	Estimate (8)	0.4988	8	0.1290	[ <u>.</u> .ø	8.3738		1.0000	
23 14	(A)~(B) (C) Actual (力)	8.8028 8.8028	8	-8,8848 8,8308	0	1,0000	0	1,0008	8.4
24 14 24 14 24 14	Estimate (8)	e eese (	<u>8</u>	8.0800	8	0.0000	8	8.6888	
24 14	(A) - (B) (C) Actual (A)	8,8080 8,8712	8	0.6893	8	0.9288	8	1.8888	2726.2
15 15 15 15 15 15	Estinate (B)	0.0080	Ø	0.6869	8	6.8688	. 0	8.8888	
15 15	(A) - (B) (C) Actual (A)	8.0000 0.0481	8	0.0880 9.0925	8	0,8808	8	1.0000	568.8
16 15 16 15 16 15	Estinato (8)	0.8491	. 0	0.0033	0	8.9476	8	1.0000	[]
16 15 17 15	(A) - (B) (C) Actual (A)	-9.0018 0.2085	8	-0.0008 0.0000	8	0.0018	0	1.8988	58.5
17 15	Estinato (8)	6.9098	8	6.8086		0,8988	L	0.0000	[
17 15 18 15	(A) - (B) (C) Actual (A)	8.8888 8.3564	8	8.0000	8	0,0000	8	1.0008	75,2
18 15	Estimate (8)	0.0000	6 6	0.6666	0	0.8008	8.	8,8688	
18 15 19 15	(A)-(B) (C) Actual (A)	0.0000 8.1920	8	0.8888	0	8.8889 8.8889	8	1,0000	98.1
1 19 15	Estinato (B)	8.0008	9	0.0000	0	8,9868	0	0.0000	]
19 15	(A)-(B) (C)	0.0000	. 9	0.0000	0	8.9809	1_8	L	<u></u>

Zone Zone	Item	Rall	γ	Air	·	Auto	Γ	Total	Total
(i) (j) 20 15	Rotuel (A)	8,8959	- 0	0,0021	9	6.9019	ļ- <sub>0</sub> -	1.0000	Pax. 1309.2
28 15	Estinato (8)	8.8942	( e	0.0859	9	8.8999	[ ģ.	1.8888	
28 15 21 15	(A)-(B) (C) Actual (A)	8.8817 8.1215	8	-0.0337 0.0037	8	8.8320 8.8778	8	1.8888	878.8
21 15	Estinato (8)	8.1197	0	0.0846	8	0.8758	0	1.0000	
21 15	(A) - (B) (C) Actual (A)	8.0019 8.0114	0	0.8839	8	0.0020 0.9882	0	1.0008	1139.6
22 15 22 15	Estinate (B)	8.8128	В	0.0889	8	0.9863	0	1.0002	1
22 15	(A)-(B) (C) Actual (A)	-8.0014 9.0500	8	9.8566	0	0.0019	0	1,0908	18.8
23 15 23 15	Estinate (B)	0.8485	0	0.0535	0	0.8980	0	1.0000	
23 15	(A) - (B) (C) Actual (A)	0.0015	8	-0.0035 0.0288	8	0.0020	8	1,0000	9.6
24 15 24 15	Estinato (B)	8.0008	0	0.0228	8	0.9772		1.8000	
24 15	(A) - (B) (C) Retual (A)	0,863B	0	-0.0020 0.0508	8	0.0820	8	1.0008	248.2
16 16 16 16	Estimate (B)	0.8628	Ø	8.8544	Ø	0.8836		1.0895	
16 16 17 16	(A) - (B) (C) Actual (A)	8.5514	9	-8.0037 8.0800	8	0.0018 0.4486	8	1.0000	18.5
17 16	Estinato (8)	8.0008	8	0.2080	Ø	8.8000	0	0.0000	
17 16 18 16	(A) - (B) (C) Actual (A)	8.8888	8	8.2223 8.2223	9	8.9000 0.5580	8	1.0000	36.2
18 16	Estimate (8)	8.8898	Ð	8.0808	0	0.8800	9	0.8000	
18 16	(A) - (8) (C) Actual (A)	8.8888 8.5282	8	0.0000	8	0.0000	0	1.0003	38.1
19 16 19 16	Actual (A) Estinate (B)	0.0000	Ø	9.0008	Ø	0.8008	Ø	8.0008	
19 16	(A)-(B) (C) Actual (A)	0.0006 0.7826	8	8.1228	0	0.0000 0.0954	- 8	1.0000	142.6
20 16 20 16	Estinate (B)	0.7806	ă	8.1259	0	8.8935	B	1.0000	
28 16	(A) - (B) (C) Actual (A)	0.0020	9	-8.8839 8.8157	9	0.0019	8	1.8888	102.2
21 16 21 16	Estimate (B)	0.8982	9	8.8196	Ø	0.8822	0	1.0008	
21 16	(A) - (B) (C) Actual (A)	0.8028 0.7323	9	-0.0040 0.0315	9	0.0020	9	1.0000	25.4
22 16 22 16	Estimate (B)	0.7303	ë	0.8350	ő	0.2347	Ø	1.8098	
22 16	(A) - (B) (C) Actual (A)	8.8828 8.2941	8	-8.8835 0.6471	3	0.0315	0	1.8080	3.4
23 16 23 16	Actual (A) Estinato (8)	0.2959	a	8.6441	ø	8.8698	Ø	1.9898	
23 16	(A) - (B) (C) Actual (A)	-0,0018 0,0000	8	8.0029 8.6667	8	0.3333	8	1,0000	9.6
24 16 24 16	Estimate (8)	0.8088	B	0.6647	8	8.3353	Ø	1.8080	
24 16 17 17	(A) - (B) (C) Actual (A)	0.8203 0.8849	8	8.8828 8.8888	8	-0.0020 0.1151	8	1.0000	66.9
17 17	Estimate (8)	0.0000	9	0.0000	0	8,0980	0	0.0088	
17 17	(A) - (B) (C) Actual (A)	0.0008 0.6552	8	8.0080	0	8.0080 0.3448	8	1.0008	11.6
18 17 18 17	Estimate (8)	0,9698	a	8.8888	0	0.8368	ě	0.0008	
18 17 19 17	(A) - (B) (C) Actual (A)	0.8888	<u>0</u>	9.0006	<u> </u>	8,2737	9	1.8288	9.5
19 17	Estinato (8)	9.9998	8	0.0000	0	8.8888	0	9.9999	
20 17	(A) - (B) (C) Actual (A)	0.8008 0.7298	8	9.9989 9.9889		0.8888 8.2728	0	1.0000	59.8
20 17	Estinato (8)	0.7180	8	0.8128	8]	8.2700	8	1.6000	
20 17 21 17	(A) - (B) (C) Actual (A)	0,8828		-0.0046 0.0000	9	0.0020 0.2263	9	1.0008	36.8
21 17	Estinato (B)	9.6096	8	8.0988	0	0.0000		0.0008	
21 17 22 17	(A) - (B) (C) Actual (A)	0.8888 0.5526	8	9.0088	8	8,4474	8	1,0000	7.6
22 17	Estinata (8)	0.8008	8	9.0000	9	9,9899	2.]	0.0000	
22 17	(A) - (B) (C) Actual (A)	0.8088 0.5093	8	0.0000	8	8.8888 8.5888	8	1,0800	6.4
23 17	Estinato (8)	0.8080	8	0.0000	8	8,0800	0	8,6689	
23 17 24 17	(A) - (B) (C) Actual (A)	0.0000 0.0000	8	0.0000	8	8.8888	9	0.0000	6.8
24 17	Estissto (8)	9.8098	6	0.0000	9.	8,8008	0	0.0000	••••
24 17 18 18	(A) - (B) (C) Actual (A)	0.8088 0.8588	8	8.0380 0.0380	8	0.8888	8	1,0000	1957.8
18 18	Estinata (8)	9,8090	8	6.6889	0	0.0000	0	0.0000	
18 18 19 18	(A) - (B) (C) Actual (A)	0.8000 0.4360	8	8.0000 8.0000	9	0.8600	8	1.0300	21.1
19 18	Estimata (8)	0.8693	6 8 8	0.0080	. 6	6.6666	0	0.0008	
19 18 20 18	(A) - (B) (C) Actual (A)	0.8030 0.0751	8	8.0800 8.0469	0	0.0000	0	1.0000	1139.4
20 18	Estimato (8)	8 8732	9	8.0596	. 0	0.8762	0	1.0000	
20 18	(A)-(B) (C)	0.0019	8	-0.0037	<u>8</u> ]	0.00181	8	<u>-</u>	

Zone Zone	ltem	Reil		Air		Auto		Total	Total Pax
	Actual (A)	0.8945	9	6.0063	0	0,8992	0	1.0000	728.0
	Estinate (B)	0.0926	8	6.6192	Ò	0.8972	Ö	1.8888	†·····
	(A)-(B) (C)	0.8019	} ģ	-8.0039	ľ	6.9820	ė		t · · · · · · · · · · · · · · · · · · ·
	Actual (A)	3.0704	ð	8,0180	ø	0,9117	. ē	1,0000	133.6
	Estinate (8)	0.8684	Ď	0.8219		0.9897	ĺĺĺ	1.8098	f · · · · · · · · · · · · · · · · · · ·
	(A)-(B) (C)	0.8328		-6.6046	0	0.8820	Ö		
	Actual (A)	0.8385	8	8.5769	8	0.3846	0	1,8890	19.4
	Estimate (8)	0.0404	8	8.5748	6	0.3855	8	1.8888	<b>†</b> · · · · · · · · · · · · · · · · · · ·
	(A)-(B) (C)	-8.8928	B	6.8659	Ø	-8.0009	8	_	1 1
	Actual (A)	9.0000	0	0.1923	8	8.8077	8	1.9000	5,2
24 18	Estimato (8)	0.0000	0	8,1939	8	8.8961	0	1.0000	
	(A) - (B) (C)	3.6666	8	-8.8816	0	0.0016	9	<u>-</u>	
19 19	Actual (A)	8.8522	[ ß	0.8888	[ø.]	0.9478	. 3	1.0200	1306.6
19 19	Estinato (B)	8.8888	8	0.0000	0	0.0000	В	0.0000	1
	(A) - (B) (C)	0.0000	9	8.6000	0	0.0800			
	Actual (A)	8,2567		9.0000	0	0.7433	0	1.0000	298,4
	Estimate (B)	0.8008		6.8008	<u>D</u> .	0.0000		8.8088	<b> </b>
	(A) - (B) (C)	0.8888	8	6.0800	0	0.8650	<u> </u>	1 0040	
	Actual (A)	0.2872	6	6.6686		0.7128		1.0000	225.6
	Estinato (B)	0.0000		8.0808	0	0.8888	8	0.0000	}
	(A)-(B) (C) Actual (A)	0.0000 0.0960	8	8.8888		9.9848	9	1.0000	198.9
	Actual (A) Estimato (B)	0.8088	8	8.8088	9.	0.0000	9	0.0000	
	(A) - (B) (C)	8.8888	ë	8.2899	61	6.6869	8		
	Actual (A)	0.0534	. 0	8.8898	8	0.9466	8	1.0000	26.2
	Estinate (B)	8.0020	ě	9.8880	ě	8.8888	8	0.0008	[ · · · · · · · · · · · · · · · · · · ·
	(A)-(B) (C)	0.0000	8	0.0000	0	8.8889	8		
24 19	Actual (A)	8.8888	8	9.8889	0	1.0800	. 0	1.6098	6,2
24 19	Estimate (B)	0.0000	0	8.0000	0	0.0000	0	8.8069	L
	(A) - (B) (C)	0.0000	8	0.0000	0	0.0000		<del></del>	
	Actuel (A)	0.9880	8	0.0000	] <u>Q</u>	0.0800	8	9.0000	
	Estinato (8)	8.0008	8	8.8888		0.0000	6.	0.0800	
	(A) - (B) (C)	0.0000	8	8.0000	8	9.8668	8	0.0000	<u> </u>
	Actual (A) Estinata (B)	0.0000 0.0000	9	8,8888	8	8,0000 8,0000	8	0.0008	
	(A) - (B) (C)	8.0883		8.8888	š	0.0000	···ě·		
	Actual (A)	0.6988	9	8.6966	8	8.8888	<u>ĕ</u>	0.0000	
	Estimate (B)	8.0023	6	9.8889	Ö	0.8980	Ö	0.0000	
	(A)-(B) (C)	8.0000	e	9.0000	0	0.0000	Ø	-	
23 28	Actual (A)	8.0000	0	9.8889	8	6988.0	0	8.8838	
23 28	Estimate (B)	8.6698	e	9.0899	8	8698.0	0	8,8808	L
	(A) - (B) (C)	8.0200		9.0000	. 0	0.8686	. 0		<u> </u>
	<u>Rotual (A)</u>	8,0000	0	9.0000	0	9.6696		8.0000	
	Estimeto (B)	0.8000	e	0.0000	8	0.0003		8,0008	· • • • • • • • • • • • • • • • • • • •
	(A) - (B) (C)	8.0000	9	0.0000	8	0.0008	8	0.0000	<del>  </del>
	Actual (A)	0.8000	<u>0</u>	0.0000	8	0.0000	8	0.0008	·····
	Estimate (B) (A)-(B) (C)	8.0000	8	0.0000	8	0.0000 6.0000			
	Actual (A)	8.0089	9	0.0000	2	8.8888	8	8.8098	
	Estinato (B)	6.8889		0.0080	··ě	0.0000	···ě	8.8698	•
	(A)-(B) (C)	8.0869	Ö	8.0082	···a	6.0800	Ö		
	Actual (A)	8,0000	0	0.0000	8	8.0008	8	0,0000	
23 21	Estinata (8)	0.0080	9	0.0000	ø	0.8888	. 6	8,8098	
	(A)-(B) (C)	8.0629	9	0.0000	8	6.8888	8	<u>-</u>	
	actual (A)	0.0000	9	8.6988		0.0899	9.	9,8339	<del>.</del>
24 21 1	(6) otenite3	0.8030	0	8.8988		0.0000	0.	0.8080	·
24 21	(A) - (B) (C)	0.0000	0	8.6988	8	0.0800	8	0 0000	
	Actual (A) Estimato (B)	0.0000 0.0000	9	8.8888 8.8888	8	0.9969 0.9999	0	8,8668 8,8688	······
25 25	Estimato (8) (A)-(8) (C)	0.8000	8	6.6968	<sub>e</sub>	0.0000	<u>0</u> .		· · · · · · · · · · · · · · · · · · ·
53 55	Actual (A)	0.0000		0.0068	ē	0.0000	ē	6.8968	
53 55	Estinato (8)	0.8880	9 8	0.0888	``ěj	0.0000	ě	8.8888	1
53 55	(A) - (B) (C)	0.8888	0	8.6968	i e i	0.9990	Ö		
24 22	Actuel (A)	0.0000	0 0	8.0988	0	0.0000	0	0.8090	
24 22 1	Estinato (8)	0.8000		8.0880	<u> </u>	0.0000	9	0.8888	]
24 22	(A) - (B) (C)	0.0000	9	0.0088	. 8	0.0000	0_		
23 23 23 23	Actuel (A)	0 . 0 0 0 0 0	0	6.2268.	0		ģ.	8.8009	<del>-</del>
23 23	Estimato (8)	0.0003	9	8.0868		0.0000	0	0.0000	
	(A) - (B) (C)	0.6060	9	8.8888	- 8	0.0000	9	8.8888	<del></del>
24 23	Actual (A) Estimato (B)	9.0008 9.0009	9	0.0000 0.0000	0 0	6.8886 6.8888	0	8.0000	
	(A) - (B) (C)	0.8000	8	0.0000	···ë {	0.0000			• • • • • • • • • • • • • • • • • • • •
	Actual (A)	8.8988		8.8988		0,0000	ě	8,8988	
24 24	Estinate (B)	0.0000	8	8.6888	8	0.0000	ě	8.888	
24 24	(R)-(B) (C)	0.8000	8	6.6689	0 )	0.0000	8		

### Appendix-3.3.4 (25) Regression Analysis on International Passengers and GDPs

(1) Regression analysis	garangan ang ang ang ang ang ang ang ang an
Regression output f	0.030198
Constant	
Std Err of Y Est	0.146185
R Squered	0.628188
No. of Observation	39
Degree of Freedom	37
R	0.787528
X Coefficient	0.915070
Std Err of Coef.	0.117727
	0198)·X^0.915870
	(0.830198)- 1.838658584
Regression output f	
in America and Eur	
Constant	9.083975
Std Err of Y Est	8.143818
R Squared	0.728835
No. of Observation	18
Degree of Freedom	16
\$	9.853249
X Coefficient	2.615364
Std Err of Coel.	B.399825
Y = exp(0.083975)	•X^2.615364
Exp	(0.083975)= 1.087601703
Regression output for	or a group
in America and Euro	ope (3)
Constant	8.022933
Std Err of Y Est	0.089606
R Squared	0.605485
No. of Observation	18
Degree of Freedom	16
Ŕ	0.778129
X Coefficient	1.102713996
Std Err of Cost.	0.222527816
Y = exp(8.022933)	
	(0.022933) = 1.029197983

### Regression Analysis on International Passengers and GDPs

(I) DATA	Year	Index of	GDP Index	Index of	GDP Index
		Intn'l Pax	(x)	Intn'i Pax	1n(X)
	1985	1,000000	1.030000	9 699968	9 9 9 9 9 9
Japan	1991	1.598744	1.303099	0.464202	0.26474
	1992	1.774286	1.320801	8.573398	0.27823
larail	1985	1.998938	1.000000	9.000860	0.00000
37 617	1991	1.141341	1.296502	8.132204	8.25967
	1992	1.261612	1.381979	9.232398	0.32351
India	1985	1.000000	1.000000	9.000000	9.00000
	1991	1.011585	1.386714	9.011518	0.31240
	1992	1.149698	1.429649	0.139499	0.35742
indonesia	1985	1.000000	1.000000	8.000000	9,8888
	1991	1.795821	1.448387	8.585816	0.37039
	1992	2,260389	1.541862	8.815537	0.43299
)man	1985	1.000000	1.000000	8.000880	0.00000
	1991	1.346185	1.276529	8.297274	8.24414
	1992	1.543775	1.363849	0.434231	0.30972
atar	1985	1,080800	1.008000	8.000000	0.00000
	1991	1.346185	1.118671	8.297274	9,11214
	1992	1.543775	1.214483	0.434231	8,19431
(orea	1985	1.080000	1.008000	8.000000	9.00000
	1991	1.538631	1.759957	9.425680	9.56528
	1992	1.723181	1.849897	8.544172	0.61469 0.00000
audi Arabia	1985	1.000000	1.000000	9,000000 9,005071	9.39890
	1991	1.005084		9.005071	0.31908
	1992	1.196471	1.375867	9.008800	0.00000
erogegnia	1985 1991	1.538660	1,569248	9.438912	0.45059
	1991	1.703923	1.664850	0.532934	0.50925
ihai	1985	1.033300	1.000000	9.008000	8.80988
Inai	1991	1.624853	1.772115	0.485417	9.57217
	1992	1.827248	1.906002	0.602811	8.64508
Pakistan	1985	1.000000	1.008000	9.002800	8.00000
- CKISCON	1991	1.250282	1.397628	9.231335	0.33477
	1992	1.422347	1.587814	0.352309	9.41813
deebatona	1985	1.000000	1.000000	8.000000	9.00000
	1991	1.348148	1.266208	8.292774	0.23602
	1992	1.413529	1.319736	8.346989	9.27743
Philippine	1985	1.000000	1.0088000	8.099899	9.00000
	1991	1.317899	1.252925	8.276039	0.22548
	1992	1.546021	1.257136	8.435685	0.22883
J.S.A	1985	1.008000	1.898888	0.000000	0.00000
	1991	1.766566	1.126468	8.569038	0.11908
· · · · · · · · · · · · · · · · · · ·	1992	1.996948	1.163451	8,691620	0.15139
Inited Kingdom	1985	1.000000	1.000000	8.000000	0.00000
•	1991	1.576480	1.154336	8.455194	8,14352
··	1992	1.829386	1.148226	0.603981	0.13821
tetherlands	1985	1.000000	1.000000	0.006000	8.18429
	1991	1.506557	1.202367	0.409827 0.555532	0.20174
	1992	1.742868	1.223537	8,808080	8.66986
Donmark	1985 1991	1.364815	1.085989	8.311019	8.68348
	1991	1.325556	1.095973	8,281832	8.89164
inland	1985	1.008000	1.888888	8.888888	0.00000
11114110	1991	1.692924	1.897992	8.526457	8.09348
	1992	1.671117	1.059802	8.513492	0.05732
Portugal	1985	1.000000	1.008000	0.888880	9.00086
	1991	1.723077	1.278793	0.544112	8.23964
•	1992	1.891738	1.284687	0.637496	8.26851
Canada	1985	1.000000	1.208000	0.000000	0.00000
*	1991	1.296893	1.134078	8.259972	8,12582
	1992	1,421511	1.142754	8.351720	8.13344
Nexico	1985	1.889899	1.000000	8,022020	8.8888
	1991	1.109003	1.118214	9.193461	8.18459
	1992	1,161212	1.141362	8 149465	8,13222
Svitzerland	1985	1.000000	1.000000	0.000000	8.08008
	1991	1.218155	1.147295	8.198748	8.13746
	1992	1.302318	1.143640	0.264146	9.13421
Spain	1985	1.008000	1.000000	0.800000	9.00000
	1991	1.105302	1.273637	8.100119	8,24181 8,24879
	1992	1.359374	1.282481	9.306804 9.008000	0.00000
France	1985	1.000000	1.179780	8.153624	8.16532
	1991	1.166853	1.195659	0.277386	8.17869
Aug. 12		1.000000	1.002008	0.000800	8.0000
Austria	1985				
	1991	1.186053	1.192629	0.153624	9.17616

Note: Data are made based on '1995 Yearbook of IMF' and '1983/4 Statistical Yearbook of United Nations'.

Appendix-3.3.5 (1) Air Passenger Movement (Arrival + Departure) by Region (Capital Replacement, Low Case)

					CThe	(ebnaeuc
[	Code No	1995	5899	2085	2810	2928
Almaty	10 0	]		<u></u>	<del> </del>	<del></del>
to/from	l l		<u> </u>		<u></u>	
Almaty	1	9.88	0.80	8.00	0.00	9.00
Wool Kessk.	!-	1.68	2.13. 43.14	3,81. 51,89	4,46 63,71	8,65 91,14
Aktyubinak Karapanda	····	3 36.10 4 92.60	98.90	121.29	151,78	226.05
Kustenay	li.l	29.30	34.49	41,89	52,13	76.53
Atyrau		31.58	37.69	46.92	56.42	81.77
East Kazak		8   31.50 7   22.10 8   115.20	26.51 135.91	32.77 164.63	41.34 201.91	62.71 290.95
South Kazak. Zhambui	}····-}··	25.78	31.33	39,46	52.18	84.59
Aknola		88.88	13.92	94.83	122,45	180.52
Semipeletin.		49.18	58.42	71.46 29.03	87,68 36.01	127.58 53.42
Kokohetau Pavlodar	} <del>}</del> -}{-	20.06 3 88.66	23.58 105.91	130.85	164.64	249.18
North Kazak.	;	3 88.68 ( 13.98	16.62	20.78	26,58	41.37
Kzyl-Orda		44.48	54.90	70.23	88.56	138.99
Zhezkazgan	!	6 44.19 7 16.98	52.82 19.37	64.34 23.14	78,37 28,28	112.61 39.76
Turos! Hangistau			33.48	41.89	58.78	74.42
Taldykorgen	i	8.88	14.00	18.04	24.18	41.11
Subtotal		718.60	863.09	1864.75	1331.22	1981.37
Russia	12		601.63 48.56	702.11 58.99	818,86 72,89	1067.82 105.51
East Europe Central Asia	1 2	49.68	48.04	57,68	69,98	98.11
China	l!.l	52,48	63.75	76.49	98.84	123.49
Moubolie	1 2	8.62	9.86	11.27	12,74	15.74
Eest Asia	1 2	11.03	12.99 128.56	15.00 155.64	17.00 184.83	20.88 245.66
Vestern Asia Other Asia	1 2	8.54	18.68	13.27	15.69	21.39
West Europe	t. 2	106.92	124.04	142,71	161,66	199.59
North America	<u>!</u> -	13.01	15.43	17,95 2.86	20.56 3.29	25.94 4.19
Oceania, etc.	1 3		2.44 0.29	Ø 35	8.41	0.52
Others						
V E 11 0 1 3	1   3:	2 0.08	8.03	8.11	0.13	0.16
Subtotal		904.16	1056.37	1254.22	1468.86	1928.99
Subtotal Total	1 3					
Subtotal	1 3	904.16 1614.76	1066.37 1929.47	1254.22	1468.86	1928.99 3910.36
Subtotal Total Vest Kasak. to/from Almaty	2	904.16 1614.76	1066.37 1929,47	1254.22 2318.96 3.01	1468.66 2800.09 4.46	1928.99 3910.36 8.65
Subtotal Total Vest Kesak. to/from Almaty Hest Kasak.	2 2	904.16 1614.76 1.69 9.99	1066.37 1929.47 2.13 9.00	1254.22 2318.96 3.01 0.80	1468.86 2800.89 4.46 8.80	1928.99 3910.36 3.65 0.80
Subtotal Total West Kesak. to/fcom Almaty West Kasak. Aktyubinsk	2 2	904.16 1614.76 1.60 2.0.00 0.10	1066.37 1929.47 2.13 9.00	1254.22 2318.96 3.01. 9.00.	1468.86 2800.69 4.46 0.80 4.35	1928.99 3910.36 3.65 0.88 12.25 6.67
Subtotal Total Vest Kesak. to/from Almaty Hest Kasak.	2.2.2.2	984.16 1614.76 1.69 2.098 9.98 1.398 9.99	1066.37 1929.47 2.13 8.00 0.65 2.06 0.58	1254.22 2318.96 3.91 9.89 2.69 8.76	1468.86 2888.89 4.46 6.88 4.35 3.72	1928.99 3910.36 3.65 0.80 12.25 6.67 2.89
Subtotal Total Wost Kasak. to/from Almaty West Kasak. Aktyubinak Karaganda Kustanay Atyreu	3. 3. 3.	904.16 1614.76 1.69 2 0.00 3 0.10 9.00 8.00	1066.37 1929.47 	1254.22 2318.96 3.91 9.89 2.69 8.76	1468.86 2800.09 4.46 0.80 4.35 3.72 1.87	1928.99 3910.36 8.65 9.88 12.25 6.67 8.89
Subtotal Total West Kesak. to/fcom Almaty West Kasak. Aktyublinak Keraganda Kustanay Atyreu East Kazak.	v. v. v. v. v. v. v. v. v. v. v. v. v. v	904.16 1614.76 1.60 9.90 8.10 9.90 9.90 9.90 9.90 9.90 9.90	1066.37 1929.47 .2.[3. 9.99 .65 .2.66 .65 .664 .38.95	254.22 2318.96 3.18.96 9.19.9 9.20.9 9.70.9 9.71.4	1468.86 2880.89 4.46 9.80 4.35 3.72 1.36 57.02	1928.99 3910.36 8.65 9.89 12.225 6.67 26.75 93.52
Subtotal Total Wost Kasak. to/from Almaty West Kasak. Aktyubinak Karaganda Kustanay Atyreu	Ø. Ø. Ø. Ø. Ø. Ø. Ø. Ø. Ø. Ø. Ø. Ø. Ø. Ø	984.16 1614.76 1.68 9.99 9.19 1.09 9.19 1.09 1.09 1.09 1.09	1066.37 1929.47 	1254.22 2318.96 3.91 9.89 2.69 8.76	1468.86 2888.89 4.46 8.88 4.35 3.72 13.68 57.82 4.59 2.39	99 3916 3916 3916 3916 3916 3916 3916 39
Subtotal Total Vest Kasak te/from Almaty West Kasak Aktyubinsk Karaganda Kustanay Atyrau East Kazak South Kazak Zhambul Akmola	Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q	984.16 1614.76 1.69 9.99 9.19 3.19 3.29 3.29 9.99	1866.37 1929.47 2.13 8.00 6.65 6.64 38.65 2.65 1.33 2.63	254 26 2318 96 9 869 67 71 72 46 77 77 67 77 77 77 77 77 77 77 77 77 77	1468.86 2800.89 4.46 8.80 4.35 3.435 13.68 57.82 4.59 2.39	99 99 96 99 96 99 96 99 96 99 96 96 96 9
Subtotal Total West Kasak. to/from Almaly. West Kasak. Aktyubinsk Keragends Kustanay Alyreu East Kezak. South Kezak. Zhandul Akmola Semipaletin.	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	994.16 1614.76 1.60 9.99 9.99 9.99 9.99 9.99 9.99 9.99 9	1866.37 1929.47 	2 0 6 8 8 8 8 8 8 7 7 7 8 9 9 9 9 9 9 9 9 9 9	4 46 8 8 6 8 9 8 9 8 8 8 8 8 8 8 8 8 8 8 8	99
Subtotal Total West Kesak. to/from Almaty. West Kasak. Aktyubinsk Keragends Kustanay Atyreu East Kezak. South Kezak. Zhambul Akmola Kokohoteu	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	984.16 1614.76 1.68 9.89 9.99 8.99 8.99 9.99 9.98 9.98 9	1866.37 1929.47 2.13 9.90 0.65 2.66 0.58 6.64 38.95 1.33 2.65 1.33	254 296 231 8 96 231 8 96 231 8 97 24 97 25 1 8 97 25 1	4 468 86 2888 89 4 46 8 88 4 35 3 72 1 868 57 82 4 59 2 39 2 39 2 88	9 9 6 5 8 5 7 8 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Subtotal Total West Kasak. to/from Almaly. West Kasak. Aktyubinsk Keragends Kustanay Alyreu East Kezak. South Kezak. Zhandul Akmola Semipaletin.	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	984.16 1614.76 1.69 9.99 9.19 3.19 3.29 3.29 9.99 9.99 9.99	1966.37 1929.47 23 9.65.6 9.65.6 9.58 9.65.4 38.95. 233 233 233	254 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	99 6 9 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Subtotal Total Wost Kasak. to/from Almaly West Kasak. Akiyubinsk Karaganda Kustanay Atyrau East Kazak. South Kazak. Zhambul Akmola Semigalatin Kokohotau Paylodar North Kazak. Kzyl-Orda	Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q; Q	984.16 1614.76 1.68 9.88 9.89 9.89 9.89 9.89 9.89 9.89 9	1966.37 1929.47 23 9.65.6 9.65.6 9.58 9.65.4 38.95. 233 233 233	2 0 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1468.86 2800.89 4.46 8.80 4.35 3.70 1.36 57.68 4.59 3.90 3.90 3.90 4.28 4.41 4.41	99 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Subtotal Total Vest Kasak to/from Almaiy West Kasak Aktyubinsk Keragenda Kustanay Alyrau East Kazak South Kazak Zhambul Semipaletin Kokcheteu Paylodar North Kezak Zhazk	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	984.16 1614.76 1.60 9.80 9.80 9.80 9.80 9.80 9.80 9.80 9.8	1966 37 1929 47 2	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 68 86 89 4 46 88 86 89 88 88 88 88 88 88 88 88 88 88 88 88	99 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Subtotal Total West Kesak. to/from Almaty. West Kasak. Aktyubinsk Keragends Kustanny Atyrau East Kezak. South Kezak. Zhambul Akmola Pavlodar North Kezak. Kzyl-Orda Zhazkazan Turqai		984.16 1614.76 1.69 9.98 9.19 6.98 9.22 9.89 9.89 9.89 9.89 9.89 9.89 9	1966 37 1929 47 1929 47 9.6.6.6 6.6.6	206 206 206 207 207 207 207 207 207 207 207 207 207	4 46 8 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9 9 6 6 6 8 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0
Subtotal Total Wost Kasak. to/from Almaly West Kasak. Aktyubinsk Karaganda Kustanay Atyrau East Kazak. South Kazak. Zhambul Akmola Semigalatin Kokohotau Paylodar North Kazak. Kzyl-Orda Zhazkazgan Turqai Tangistau Yaldykorgan	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	984.16 1614.76 8.90 9.90 9.19 9.80 9.90 9.90 9.90 9.90 9.90 9.90 9.9	1929 47 1929 47 200 69 69 69 69 69 69 69 69 69 69 69 69 69	2 2 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1468.86 2800.89 4.46 8.80 4.35 7.27 13.68 57.82 4.59 3.90 3.90 3.90 4.41 4.41 4.41 4.41 4.41 4.61 4.61 4.61	9 9 6 6 6 6 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8
Subtotal Total Vest Kasak to/from Almaly West Kasak Aktyubinsk Karagenda Kustanay Alyrau East Kazak South Kezak Zhandal Kokchetau Paylodar North Kezak Kzyl-Orda Zhezkazgan Turqaj Hangistau Yaldykorgan Subtotal		984.16 1614.76 1.60 9.80 9.80 9.80 9.80 9.80 9.80 9.80 9.8	1969 47 1929 47 1929 47 	20 6	4 46 8 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	99 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9
Subtotal Total Vest Kasak to/from Almaiy West Kasak Aktyubinsk Karaganda Kustanay Atyrau East Kazak South Kazak Zhambul Semipalatin Kokohetau Paylodar North Kazak Kzyl-Orda Zhazkazaan Turqai Hangistau Tuldykorgan Subtotal Russia		984.16 1614.76 1.60 9.80 9.80 9.80 9.80 9.80 9.80 9.80 9.8	1969 47 1929 47 1929 47 	206 218 218 218 218 218 218 218 218 218 218	1468 66 2886 69 4 46 8 88 8 88 9 37 13 68 57 68 57 68 57 68 13 98 4 39 4 39 4 39 4 39 4 39 1 39 1 41 4 41 4 41 4 41 4 41 4 41 4 41 4 4	99
Subtotal Total Vest Kasak to/from Almaly West Kasak Aktyubinsk Karagenda Kustanay Alyrau East Kazak South Kezak Zhandal Kokchetau Paylodar North Kezak Kzyl-Orda Zhezkazgan Turqaj Hangistau Yaldykorgan Subtotal		984.16 1614.76 8.90 9.90 9.90 9.90 9.90 9.90 9.90 9.90	1929 47 1929 47 2	206 206 206 206 206 206 206 206	1468.86 2800.89 4.46 8.80 4.35 7.27 13.68 57.82 4.59 3.90 1.28 9.42 1.44 1.8 9.43 1.44 1.8 9.43 1.44 1.8 9.43 1.44 1.8 9.43 1.44 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	99
Subtotal Total Vost Kasak to/from Almaly West Kasak Aktyubinsk Keraganda Kustanay Alyreu East Kazak South Kazak South Kazak South Kazak South Kazak Zhambul Akmola Semigaletin Kokchetau Paylosa Turgai Hangistau Yaldykorgan Subtotal Rusaia East Europe Contral Asia		984.16 1614.76 8.90 9.90 9.90 9.90 9.90 9.90 9.90 9.90	1929 47 1929 47 2	2 2 6 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 46 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	99 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Subtotal Total Vest Kasak to/from Almaiy West Kasak Aktyubinsk Keragends Kustanay Alyrau East Kazak South Kezak Zhambul Semigaletin Kokchetau Payloder North Kezak Zhambul Inangistau Yaldykorgan Subtotal Russia Eest Europe Central Asia China Inongolia		984.16 1614.76 1.60 9.80 9.80 9.80 9.80 9.80 9.80 9.80 9.8	1929 47 1929 47 2.00.696.09 6.00.696.096.096.096.096.096.096.096.096	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 68 66 28 60 89 4 46 60 89 4 46 60 89 4 46 60 89 80 80 80 80 80 80 80 80 80 80 80 80 80	99
Subtotal Total Vost Kasak. to/from Almaiy West Kasak. Aktyublask Karaganda Kustanay Atyreu East Kazak. South Kezek Zhambul Akmola Semipaletin. Kokoheteu Paylodar North Kezek Kzyl-Orda Zhazkazaan Turqei Hangisteu Yeldykorean Subtotal Rusaia East Europe Contrat Asia China Inoquolia East Asia	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	984.16 1614.76 8.98 9.98 9.19 32.29 9.89 9.89 9.89 9.89 9.89 9.89 9.89	1929 47 1929 47 2.00.696.09 6.00.696.096.096.096.096.096.096.096.096	206 206 206 206 206 207 207 207 207 207 207 207 207 207 207	1468 86 2800 89 4 46 8 80 4 35 7 87 13 68 57 82 9 4 59 9 2 80 1 28 9 2 9 1 1 8	99 36 65 8 5 6 8 6 5 7 8 6 6 8 6 6 6 8 6 6 6 6 6 6 6 6 6 6 6
Subtotal Total Vost Kasak. to/from Almaiy. West Kasak. Aktyubinsk Karaganda Kustanay Alyrau East Kazak. South Kazak. South Kazak. South Kazak. Kokohota Pavlodar North Kazak. Kzyl-Orda Zhazkazgan Turqai Hangistau Yaldykorgan Subtotal Rusaia East Europa Central Asia China Mongolia East Asia		984.16 1614.76 8.98 9.98 9.19 32.29 9.89 9.89 9.89 9.89 9.89 9.89 9.89	1929 47 1929	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	99 6 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Subtotal Total Vest Kasak to/from Almaly West Kasak Aktyubinsk Keragenda Kustanay Alyreu East Kazak South Kazak Zhambul Akmola Semigaletin Kokchetau Payloser North Kezak Kzyl-Orda Zhezkazgan Turgei Hangisteu Yaldykorgan Subtotal Rusaia East Europe Contrat Asia China Mongolia East Asia Hestern Asia Other Asia		984.16 1614.76 1.69 9.89 9.99 9.99 9.99 9.99 9.99 9.99 9	1929 47 1929	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 68 89 89 4 68 89 89 89 89 89 89 89 89 89 89 89 89 89	99 6 6 6 6 6 7 7 8 7 8 7 8 7 8 8 8 8 8 8 8
Subtotal Total Vest Kasak to/from Almaly West Kasak Aktyubinsk Keragends Kustanay Alyreu East Kezak South Kezak Zhandul Semigaletin Kokchetau Peyloder North Kezak Zhandul Handul East Europa Turqai Hangisteu Yaldykorgan Subtotal Russie Eest Europa Central Asia China Hongolia East Asia Hostern Asia Other Asia		984.16 1614.76 1.69 9.89 9.99 9.99 9.99 9.99 9.99 9.99 9	1929 47 1929 47 1929 47 1929 47 1929 47 1929 67 1929 67 1920 67 192	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 68 66 89 89 89 86 80 89 80 80 80 80 80 80 80 80 80 80 80 80 80	99 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9
Subtotal Total Wost Kasak. to/from Almaiy. West Kasak. Aktyubinsk Karaganda Kustanay Alyreu East Kazak. South Kezek. Zhambul Akmola Semigalatin. Kokohoteu Paylodar North Kezek. Kzyl-Orda Zhazkazan Turqai Hangistau Yaldykorgan Turqai Hangistau Yaldykorgan Subtotal Russia Eest Europe Contrat Raie China Hongolia Eest Asia Hestern Asia Uther Asia		984.16 1614.76 8.90 9.90 9.90 9.90 9.90 9.90 9.90 9.90	1929 47 1929	206 206 206 206 206 206 207 207 207 207 207 207 207 207 207 207	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	99.66 9.36 9.36 9.36 9.37 9.30
Subtotal Total Vest Kasak to/from Almaly West Kasak Aktyubinsk Keragenda Kustanay Alyreu East Kazak South Kazak South Kazak South Kazak Zhambul Akmola Semigaletin Kokchetau Payloser North Kezak Kzyl-Orda Zhezkazgan Turgei Hangisteu Yaldykorgan Subtotal Rusaia East Europe Contrat Asia China Mongolia East Agia Uter Asia Uter Asia Uter Asia Other Asia Other Asia Other Sia		984.16 1614.76 1614.76 8.90 9.90 9.90 9.90 9.90 9.90 9.90 9.90	1929 47 1929 47 1929 47 1929 47 1929 47 1929 67 1929 67 1920 67 192	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 9 6 9 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Subtotal Total Vost Kasak to/from Almaiy West Kasak Akiyubinsk Karaganda Kustanay Alyrau East Kazak South Kazak Zhambul Akmola Semigalatin Kokohotau Paylodar North Kazak Kzyl-Orda Zhazkazgan Turqai Tangistau Teldykorgan Subtotal Russia East Europe Central Asia China Mostern Asia Hestern Asia Hestern Asia Other Asia Hestern Asia Other Asia Hest Europe North Aserica Oceania, etc. A(rica		984.16 1614.76 1614.76 8.90 9.90 9.90 9.90 9.90 9.90 9.90 9.90	1929 1929	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1468 66 280 69 4 66 69 4 76 76 76 76 76 76 76 76 76 76 76 76 76	9 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

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	Code (i)	No.	1995	5969	2085	2818	2028
Aktyubinsk			ئىلىسىسىيىسىيىسىسىشەن. ئالىرىسىسىسىيىسىسىسىسىسىسىسىسىسىسىسىسىسىسىس				···
torfrom		<del> </del>	20 10	42 14	61 00	62 71	
Almaty	3.	<u>1</u> 3.	36.10 8.18	43.14 0.65	51.89 1.89	63.71 4.35	91.14 12.25
West Kasak, Aktyubinsk	1 3	3	8.88	8.88	28.02	8.88	0.00
Karaganda	3 3	4	2,90	3.54	4.54 1.14	6.18	18.28
Kustanay		. 5	0.00	0.89		1,55	2.71
Atyrau :	3 3 3	6. 7	9.32 8.60	9.41 9.37	0,69	0.93 0.65	1.93
East Kazak. South Kazak.		8	9.58	9.62	0.48 0.83	i	2.15
Zhambul	3	9.	0.00	9.45	0,58	0.80	11.41
Akmola		ļ <u>i.</u> 0.	1.00	1.26	1.75	2.52	4.47
Semioplatin. Kokchetau	3	] ] ]2	9.98 9.89	8.27 8.85	0,35 0,88	8.47 8.11	0.82 0.28
Pavlodar		13	1.18	1.48	1.93	2.82	5.34
North Kazek.	3.	114.	8,98	9.98	1.93 0,11	[ <u>0.1</u> §.	0.29
Kzyl-Orda	<u>3</u> .	1.5	8,88	8,21	0,29	8,41	0.78
Zhezkazgan Turgai	3	16 17	0.1B 8.58	0.13 0.59	0.19 0.75	9.28 1.80	8.55 1.66
Mangistau	3	18	7.80	9.19	11.59	15.08	24.22
18ldykorgan	3	19	9.00	9.20	8.26	0.35	0.59
Subtotal	ļ <u>-</u> -		50.40	63.49	79.23	102.44	161.92
Russia East Europe	3.3	20 20	13.00 0.60	15.67 8.83	19.59 1.26	25.52 2.02	40.56 4.19
Central Asia	ğ.	55	8.49	8.49	0.64	8.88	1.51
China	3	23	0.80	9.98	1.21	1,52	2.26
Hongolia	3.	24 25	8.20	8.23	0.28	9.33	8.46
East Asia Vostern Asia	3.	2.5	0.16 1.74	9. 19. 2. 13	0,22 2.57	9,25 3,10	0.32
Other Asia	<u>3</u>	26 27	0.13	0.16	2,19	8.23	4.21 0.33
West Europe	3.	28 1	1.58	1.83	2,09	2,41	3.84 0.48
North America	3	29	0.19	0.23	0.26	8.31	0.48
Oceania, etc. Africa	3	30 31	9.93 9.89	0.04 9.00	0.84 0.81	8,05 8,01	0.06 0.01
ersett0	3	32	0.60	0,00	0.88	8.08	0.00
Subtotal			18.84	22.78	28.37	36.62	57.35
Total	<b>├</b>		69.24	86.27	107.68	139.87	219.27
Karaganda to/from							
Almaty	4	1	82.60	98.90	121,29.	151.70	226.05
West Kasak.	4.	2 3	0.00	2.26 3.54	2.89	3.72	6.67
Aktyubinsk	4	3.	2.98	3.54 0.00	4.54	6.18 8.00	10.28
Karapanda Kustenay			8.69	0.00	9,69	0.00	
	1 4 9	5	8.88	1.65	2.12	2.89	0.0B
Alyreu	4.	5 6	9.09 5.89	1.65 6.97	2,12 8,82	2,89 11.42	9.80 5.83 18.35
East Kazak,	4	6 7	8.88 5.88 4.88	1.65 6.97 4.85	8.82 6.27	2,89 11,42 8,43	5,83 18,35 14,33
East Kazak. South Kazak.	4	6 7 8	0.00 5.80 4.00 8.10	1.65 6.97 4.85 9.68	8,82 6,27 12,30	2,89 11,42 8,43 16,21	5.83 18.35 14.33 26.59
East Kazak. South Kazak. Zhambul	4	6 7	9.89 5.89 4.89 8.18 8.28	1.65 6.97 4.85 9.68 0.38	8.82 6.27 12.38 9.40	2,89 11,42 8,43 16,21 8,57	5.83 18.35 14.33 26.59 1.87
East Kazak. South Kazak. Zhambul Akmola Semipalatin.	4	6 7 8 9 18	8. 89 4. 89 8. 18 8. 18 8. 18	1.65 6.97 4.85 9.68 0.30 11.82 0.19	& & ? \$ \alpha \cdot \c	2,89 11,42 8,43 16,21 8,57	5.83 18.35 14.33 26.59 1.87 39.41
East Kazak. South Kezak. Zhambul Akmola Semipalatin. Kokchetau	4	6 7 8 9 10 11	8. 89 4. 89 8. 10 8. 10 9. 00 9. 00	1.65 6.97 4.85 9.38 9.38 1.82 0.99	8:0:7:8:0 8:0:7:8:0 7:0:0:6:8:3 1:0:0:3 1:0:0:3	2, 89 11, 42 8, 43 16, 57 22, 63 25, 73 27, 73	5.83 18.35 14.33 26.59 1.87 39.41
East Kazak, South Kazak, Zhambul Akmola Semipalatin, Kokchelau Paylodar	4	6 7 8 9 8 2	8.88 4.89 8.90 8.90 8.90 8.90 8.90 8.90 8.90	1.65 6.97 4.85 9.38 9.38 1.82 0.99	&:6:0:0:6:8:6:6:6:6:6:6:6:6:6:6:6:6:6:6:6	2,89 11,42 8,43 16,21 8,51 2,63 3,45 22,05	5.03 18.35 14.33 26.59 1.84 1.84 6.03
East Kazak, South Kazak, Zhambul Akmola Semipalatin, Kokchetau Paylodar North Kazak,	4	6 7 8 9 8 2	8.88 4.89 8.90 8.90 8.90 8.90 8.90 8.90 8.90	2.000	8 4 7 5 6 8 5 5 2 8 4 8 7 5 6 8 5 5 2 1 5 6 8 7 5 7 2	2,89 11,42 8,43 16,21 8,51 2,63 3,45 22,05	5, 93 18, 35 14, 33 26, 59 1, 87 39, 41 6, 83 38, 15 6, 51
Cast Kazak. South Kazak. Zhaabui Akmola Semipalatin. Kokchetau Peylodar North Kazak. Kzyl-Orda Zhozkazgan	4	6 7 8 9 8 2	8.8.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9		ない。	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5, 93 18, 35 14, 33 26, 87 39, 41 6, 83 38, 15 6, 76 5, 76
East Kazak, South Kazak, Zhaabul Akmola Semipalatin, Kokchetsu Paylodar North Kazak, Kzyl-Orda Zhozkazgan Turqai	4	6 7 8 9 8 2	\$\(\delta_1\) \(\delta_1\) \(\delta_2\) \(\d		0,000 (0,0) (0,000 (0,0) (0,000 (0,0) (0,000 (0,0) (0,000 (0,0) (0,000 (0,0) (0,000 (0,0) (0,000 (0,0) (	0.00 (1.00 (	5, 83 18, 35 14, 35 26, 59 1, 87 39, 41 1, 84 38, 15 5, 76 5, 76 5, 55
East Kazak, South Kazak, Zhambul Akmola Semipalatin, Kokchetsu Paylodar North Kazak, Kzyl-Orda Zhezkazgan Turgaj Hangistau	4	6 7 8 9 8 2	\$\text{\$\alpha\$}, \text{\$\alpha\$}, \text	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.00 (1.00 (	5, 83 18, 35 26, 59 26, 59 39, 41 1, 84 38, 15 5, 76 3, 1, 58 5, 76 5, 53 1, 58
East Kazak. South Kezak. Zhambul Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhezkazgan Turqai Taldykorgan	4	6 7 8 9 10 11	8.05 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)		(1) (1) (1) (1) (2) (2) (2) (3) (3) (4) (3) (4) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	89 44 91 1 7 8 8 4 4 8 8 8 8 4 4 8 8 8 8 8 8 8 8 8	5, 83 18, 35 26, 59 26, 59 39, 41 1, 84 38, 15 5, 76 5, 76 5, 76 5, 76 5, 76 2, 38
East Kazak, South Kazak, Zhaabul Akmola Semipalatin, Kokchetsu Paylodar North Kazak, Kzyl-Orda Zhezkazgan Turqai Mangistau Taldykorgan Sublotal Russia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6:7:8:9:8:10:0:7:8:9:10:0:7:8:9:10:0:7:8:10:0:7:8:10:0:7:8:10:0:7:8:10:0:7:8:10:0:7:8:10:0:7:8:10:0:7:8:10:0:7:8:10:0:7:8:10:7:10:7	8.05 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	5 3 3 3 3 3 3 3	8.00,00,00,00,00,00,00,00,00,00,00,00,00,	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5 83 18 35 14 33 26 59 39 41 6 83 39 51 5 63 1 55 63 2 88 2 38 4 18 4 25
East Kazak. South Kazak. Zhaabul Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Thezkazgan Turqai Mangistau Taldykorgan Subtotal Russia East Eurogo	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;7;0;0;0;1;0;0;0;0;0;0;0;0;0;0;0;0;0;0;0	8.05 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	5 3 3 3 3 3 3 3		29 443	5 83 18.35 26.59 1 87 39.41 1 843 38.15 5.76 5.56 2.86 2.86 2.86 2.65 2.65 2.65
East Kazak. South Kazak. Zhambul Akmola Semipalatin. Kokcheteu Paylodar North Kazak. Kzyl-Orda Thezkazgan Jurgai Hangistau Taldykorgan Sublotal Russia East Eurogo Central Asia	4	6;7;0;0;0;1;0;0;0;0;0;0;0;0;0;0;0;0;0;0;0	8.05 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	5 3 3 3 3 3 3 3	8.01.20.20.20.20.20.20.20.20.20.20.20.20.20.	29 443	5 83 18.35 26.59 1 87 39.41 1 843 38.15 5.76 5.56 2.86 2.86 2.86 2.65 2.65 2.65
Cast Kazak. South Kezak. Zhambul Akmola Semipalatin. Kokchetau Peylodar North Kazak. Kzyl-Orda Zhezkazgan Turqai Hangistau Taldykorgan Subtotal Rvssia Eest Eurogo China	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;7;0;0;0;1;0;0;0;0;0;0;0;0;0;0;0;0;0;0;0	\$\text{\$\alpha\$}\tau\tau\tau\tau\tau\tau\tau\tau\tau\tau	0.000000000000000000000000000000000000	8,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	29 443	5 83 18.35 26.59 1 87 39.41 1 843 38.15 5.76 5.56 2.86 2.86 2.86 2.65 2.65 2.65
Cast Kazak. South Kazak. Zhaabul Akmola Semipalatin. Kokcheteu Paylodar North Kazak. Kzyl-Orda Thezkazgan Jurgaj Mangistau Taldykorgan Sublotal Russia East Eurogo Central Asia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;7;0;0;0;1;0;0;0;0;0;0;0;0;0;0;0;0;0;0;0	\$\text{\$\alpha\$} \tau \tau \tau \tau \tau \tau \tau \tau	0.000000000000000000000000000000000000	8,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	29 443	5, 83 18, 35 26, 59 1, 87 39, 41 1, 84 38, 15 5, 76 3, 15 5, 76 3, 15 1, 58 2, 38 418, 46 2, 46
East Kazak. South Kezak. Zhambul Akmola Semipalatin. Kokchelau Paylodar North Kazak. Kzyl-Orda Zhezkazgan Turqai Mangistau Taldykorgan Sublotal Russia East Eurogo Central Asia China Mongolia East Asia Western Asia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;7;0;0;0;1;0;0;0;0;0;0;0;0;0;0;0;0;0;0;0	\$\tau_1 \tau_1 \tau_2 \	0.000000000000000000000000000000000000	8 (8) 17 (17 (17 (17 (17 (17 (17 (17 (17 (17	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5.83 18.35 26.59 1.843 39.41 1.683 38.51 5.763 5.763 418.465 418.465 2.665
Cast Kazak. South Kezak. South Kezak. Zhambul Akmola Semipalatin. Kokchetau Peylodar North Kazak. Kzyl-Orda Zhezkazgan Turqai Mangistau Taldykorgan Subtotal Ryssia East Eurogo China Mongolia China Mongolia East Asia Other Asia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;~;@;9;@;~;0;@;~;@;9;@; W;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;Q;	\$\text{\$\delta\$} \tag{\alpha} \		8 (8) 17 (17 (17 (17 (17 (17 (17 (17 (17 (17	89.4.3.1.1.7.3.3.4.5.9.3.4.3.5.3.3.4.3.3.3.3	5.835 18.35 2.1.35 2.1.35 2.1.35 2.1.35 3.65 5.76 3.65 2.2.36 4.18.25 2.36 3.25 4.18.2
East Kazak. South Kazak. South Kazak. Akmoia Semipalatin. Kokchetau Paylodar North Kazak Kzyl-Orda Zhezkazpan Turgai Hangistau Taldykorgan Subtotal Russia East Eurogo Central Asia China Mongolia East Asia Western Asia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;~;@;9;@;~;Q;0;;G;~;@;9; @;~;Q;0;;Q;0;;G;~;@;9; @;~;Q;0;;Q;0;;Q;0;;Q;0;;Q;0;;Q;0;;Q;0;;Q	\$\text{\$\alpha\$} \tau_1 \text{\$\alpha\$} \tau_2 \text{\$\alpha\$} \tau_		の。の、で、の、で、で、で、で、で、で、で、で、で、で、で、で、で、で、で、で、	89.4.3.1.1.7.3.3.4.5.9.3.4.3.5.3.3.4.3.3.3.3	5 83 18 35 26 59 27 6 59 38 41 1 6 8 51 6 5 76 36 5 6 5 1 2 8 8 6 2 8 8 6 1 8 8 6 2 8 8 6 1 8 8 8 6 2 8 8 8 6 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
East Kazak. South Kezak. South Kezak. Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhozkazgan Turqai Mangistau Taldykorgan Subtotal Ryssia East Euroeo Central Asia China Mongolia East Asia Western Asia Other Asia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6:-:@;@;@;-::\;@;\;@;\;@;\;@;\;\@;\;\;\;\;\;\;\;\;\	8.01.41.02.03.03.03.03.03.03.03.03.03.03.03.03.03.			0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	5 83 18 35 14 35 26 59 1 87 39 41 1 84 38 15 5 76 5 63 2 88 4 18 46 2 26 92
East Kazak. South Kazak. South Kazak. Zhambul Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhozkazpan Turqai Manqistau Taldykorgan Subtotal Russia East Europo Central Asia China Mongolia East Asia Other Asia Other Asia Other Asia Other Asia Other Asia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;~;@;@;@;~;@;@;@;@;@;@;@;@;@;@;@;@;@;@;	\$\text{\$\alpha\$} \tau_1 \tau_2 \tau_2 \tau_3 \tau_4 \tau_5		の。少いで、	89 (4 10 1 1 10 10 10 10 10 10 10 10 10 10 10	5 83 18 35 26 59 2 1 87 39 41 1 843 38 15 5 763 2 88 4 18 46 2 2 6 8 8 6 17 95 3 8 4 15 2 8 8 6 2 8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Cast Kazak. South Kazak. Zhambul Akmola Semipalatin. Kokchetau Paylodar Morth Kazak Kzyl-Orda Zhezkazpan Turgai Mangistau Taldykorgan Subtotal Russia East Eurogo Central Asia China Mongolia East Asia Mestern Asia Mestern Asia Mest Euroge North America Oceania, etc. Africa Others	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6:-:@;@;@;-::\;@;\;@;\;@;\;@;\;\@;\;\;\;\;\;\;\;\;\	\$\$\text{\$\			0.0.4.0.17.0.0.0.18.0.0.0.19.0.19.0.0.19.0.0.19.0.0.19.0.0.19.0.0.19.0.0.19.	5 83 18 35 26 59 26 59 39 41 1 843 38 51 5 763 1 58 81 2 38 4 18 46 2 2 6 9 6 1 7 9 5 3 2 4 7 1 3 2 2 2 2 9 9 9 9 9
Cast Kazak. South Kazak. South Kazak. Ahambul Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhezkazgan Turqa; Taldykorgan Subtotal Russia Last Euroge Central Asia China Mongolia East Asia Other Asia Other Asia Other Asia Other Asia Other Asia Other Asia Other Asia Other Asia Other Asia	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6;~;@;@;@;~;@;@;@;@;@;@;@;@;@;@;@;@;@;@;	\$\text{\$\alpha\$} \tau_1 \tau_2 \tau_2 \tau_3 \tau_4 \tau_5		の。少いで、	89 (4 10 1 1 10 10 10 10 10 10 10 10 10 10 10	5 .93 18 .35 14 .33 26 .67 39 .41 1 .84 38 .15 5 .76 3 .2 .80 2 .80 4 .8 .86 17 .81 1 .95 2 .4 .71 3 .5 .5 2 .7 .6 3 .7 .6 5 .7 .6 6 .7 .6 6 .7 .6 6 .7 .6 7 .7 .6 8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8

		. kt - :	1	2000	0005		usands)
	Code	No.	1995	5989	2005	5910	282
Kustanay			1			1	
to/from		<b> </b>		1 - 21 - 2	I	I	
Almaty	5 5		29.38 0.90	34.49 8.58	41.89 0.76	52.13 1,87	76.5 2.0
Wost Kasak, Aktyubinsk	5		8.99	8.89	1.14	1.55	2.1
Karaganda	5	4	0.00	1.65	2,12	2.89	5.8
Kustanay	5 5	5	0.00	9.00	0.00	8.08	0.0
Alyrau	5	§.	0.78	8.86	1,15	1.62 2.53	29
East Kazak. South Kazak.	<u>5</u> 5	7 8	1.28 0.08	1.44	1.86	1,75	4.3 2.9
2hambu l	5	ğ	1.10	1.32	1.70	2,34	4.0
Aknola	5	10	8.99	1.37	1.86	2.63	4.6
Semipaletin.	5.		0.08	9.07	0.09	0,13	0.2
(okchetau Pavlodar	5. 5.	<u>12</u> . 13	0.66 0.66	1.37 0.83	1.78	2,39 1,50	4.1 2.7
orth Kazak.	5	::	a ée	1.49	1.88	2.81	4.5
(zyl-Orda	5	15	1.30	1.65	2.30	3,27	6.1
Zhozkozgon	5	16	8.00	0.38	0.49	0.67	1.1
lutdei	5.	17	0.00	9.37	0,47.	0,64	
langistau Ialdykorgan	5	18. 19	5.98 8.09	6.78 0.35	8.50 9.44	18,95	17.3 0.9
Subtotal		1 3	39.58	56.93	78.98	91.27	143.5
Russia	5	28	21.00	24.54	30.19	38,45	58.7
ast Europe	5	21	3.80	4.52	5,73	7.60	12.4
Contral Asia	5.	22	4.80 4.80	5.55 5.68	6.71	8.33	12.1
Chine Tongolia	5.	23	6.80	5.68 9.98	6.92	8.22 1.20	11.4
est Asia	<u>š</u> .	25	1.02	1.15	1.32	1,49	1.5 1.8
lestern Aala	5 .	28	9.64	11.41	13.64	16.25	21.6
ther Asia	5.	27	0.79	0.95	1.15.	1,38	1.8
lost Europe lorth Americs	5	28 29	9,84 1,21	11.01	12.51 1.57	14.21 1.81	17.5 2.2
ceania, etc.		38	8.19	8.22	0.25	8,29	8.3
Ririca	<u>5</u> 5	31	0.02	9.83	0.93	9,94	0.6
Others	5	32	0.01	0.31	0.01	0.01	0.8
Subtote!			57.92 97.42	67.33 124.26	80.96 151.86	99.26 198.53	141.9 285.5
Alyrau			31.35	1 157:50	191.00		500.0
to/from							
linety	<u>ę</u> .		31.50	37.69	46.02	56.42	817
lest Kasak.	6	2 3	5.10 0.38	6.64 0.41	9.31	13.68	26.7
aktuubinsk Caraganda	6	4	5.88	6.97	0.68 8.82	0.93 11.42	1.9 18.3
Custenay	6		0.78	8.86	1,15	1.62	2.9
tyreu	6	5 6 7	99.00	8.69	0.00	8.00	0.0
ast Kezek.	ĕ.		0.00	2.99	3.75	4,79	7.5
South Kazak. Chambul	6 6	8 9	5.30 9.00	6.28 9.30	7.86 8.39	9.99 0.55	15.59 0.91
kmola	6	ijŎ (	3.30	4.85	5.39	7.27	11.7
emigalatin.	6		0.60	4.30	5,36	6.68	10.1
Okchetau	6	12	0.56	0.61 1.20	9.88. 1.56	1.87	1.86
eylodar forth Kazak.			9.66 9.78	8.85	1.56.	1.51	3.6 2.6
zyl-Orda	6 6	14 15 16	0.00	8.81	1,681	1.46	5 63
hozkazgan	6	16	1.40	1.78	2.18	1.46 2.82	4.59
uldei	6	17 18	0.00	9.81	0.02	9.02	0.04
iangistau ialdykorgan	6	18	53,20 8.00	61,43 3,20	75.81 3.92	93.54 4.86	139.84 7.24
Subtotal		3-	107.88	148.38	175.13	228.74	339.49
ussia	6 6	51 50	48.80	47.32	58,13	72.28 4.76	107.37
ast Europa	6	51	5.20	2.78	58,13 3,52 1,83	4.76	8.12
entral Agia	ا.هٍ	ऱऱ.	1.28	1,44	1.83 4.16	2,37	3.78 7.20
hins longolis	6	23 23	2.80 9.40	3.40 8.46	9.55	5,84 8,65	9.89
ast Asia	6	25	0.58	8.68	8,80	0.92 [	1.19
estern Asia	6 6	25 26 27	5,45 0,45	6,70 0.56	8.28 0.70	10.00	13.95
ther Asia	6.[	27	0.45	0.56	9,70	8.85	1.22
lest Europa lorth America	<u>.</u> 6.}	28 29 30	5.57	6.47 0.80	7.59	8.75	11.34
IVI KIR MROFICE I	6 6		8.68 8.11		0,95 0,15	1.11 ( 0.18 (	1.47 8.24
	8 1	Jul	и. 1 г	6.1.4			
ceania, etc. Trica	6	31	6.81	0.13 0.02	0.82	8,82	6.83
ceania, etc.	6	32	0.00 0.00 59.46	0.02 0.00 70.69	0.02 0.01 86.68	9.02 9.01 106.93	6.83 8.81 156.81

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	Code		1995	2868	2085	5919	5958
East Kazak.	<u>(i)</u>	(1)				A) GRAND PLANTE MORTH MAJES	
to from					32.77	41,34	62.71
almaty	7	1	23.60 34.38	26.51 38.05	46.17	57,02	83.52
Nest Kasek. Aktyubinsk	····;	3	8.98	0.37	8.48	0.65	1.19
Karaganda	7	4	4.27	4.85	6.27	8,43 2,53	14.33 4.32
Kustenay	?.		1.28	1.44 2.99	1,86 3.75	4.79	7.55
Atyrau East Kazak	7	6	8.76	9.91	12.80	17.24	29.67
South Kazak	````?`	. 8	5.02	5.53 J	6,88	8.80	13.73
Zhanbul	₹.	<u>ş</u>	0.00	8,07 8.55	0,89 2,86	9,13	9.25 2.99
Akmole Semipalatin.	<del>?</del> .	18	0.86	2.40	3,14	1.40 4.25	7.48
Kokchetau	ì.	12	8.99	0.87	8,89	0.13	8.24
Paylodar	<u>?</u> .	13	8.43	8.89	1,95 0,15	3.91 0.20	9.93 9.38
North Kazak		14	8.00	9.11	1,37	1.83	3.28
Kzyl-Orda Zhezkazgan	····÷	16	8.88	0.85	0.87	8.10	8.19
lurgai	7.	1.3.3	6.69	9.02	0.83	8,84 79.23	8.08
Mangistau	$\cdots \frac{7}{7}$	18. 19	53.60 0.80	56.38 8.65	66.98 0.84	1.13	198,31 1,96
Yaldykorgan Subtotal			131.76	151.88	186,55	233.15	351.83
Russia		20	13.60	16.07	19,85	25,16	38.42 10.48
East Europe	<u>7</u> .	21 22	3.20	3.84 1.91	4.88 2.39	6.44 3.08	4.85
Central Asia China	7	23	4.28	5.08	6.24	7.87	11.15
Mongolia	7	24.	8.68	0.69	0.81	9,97	1.32 1.63
East Asia		25	0.88 8.24	1.00 9.93	1,16. 11,99	1.31 14.27	19.17
Western Asia Other Asia	7	26	0.68	9.82	1.01	1,21	1.67
West Europe	7.	28	8.42]	9.58	11.00	12.48	15.58
North America		29.	1.03		1.38 0.22	1,59 8,25	2.03 0.33
Oceania, etc. Africa	7	30 31	0.16	0.19 8.02	0.03	8.83	0.04
eledio.	7	32	8.81	8.81	8.01	0.01	0,81
Subtotal			42.63	50.34	60.98 247.50	74,46 307,68	106.68 458.51
Total South Kazak.			174,39	202.21	241.50	301.90	
to/from							
Almaty	8	1.	115.20	135.91	164,63.	201,91 4,59	290.95 7.89
West Kasak,	8.	3	0.00 0.50	2.65 0.62	3,42 0,83	1.18	2,15
Aktyubinsk Karaganda	<u>š</u>	l	8,10	9.68	12.30	16,21	26.59
Kustenay	8.	. 5	8.89	1.84	1,32	1.75 9. <b>9</b> 9	2.93 15.59
Atyrau	8	6 7	5.30 4.70	6.28 5.53	7,86 6,88	8.88	13.73
East Kazak. South Kazak.	8	8	0.60	0.00	1 8.88	0.00	8.80
Zhembul	8	9	99.0	16.18	20.75	28.50	58.68
Akmola	8	1.0	1.18	1.39	1,97 0.80	2,90 1.07	5.31 1.82
Semigalatin. Kokchetau	8	11.	8.88 8.30	8,62 0,38	0.53	a 77	1.46
Pavlodar	8	13	4.10	5.04	6,73	9.37	L16.75
North Kezak.	8	1.4.	5.20 9.08	6,08 7,10	7.62 9.48	9,88 12,74	15.51 22.68
Kzyl-Orda Zhezkazgan	8 8	15	8.88	0.47	0.61	l 8.83	L J 93
Turgai	8.	17 18	3.08	3.40 6.70	4.14. 8.39	1 5.28	7.81
Mangistau	8	1!8	5.88	6.70	8,39 0,87	10.71	16.81 2.83
Taidykorgan Subtotal	<del>                                     </del>	19	153.30	209,67	259.13	327 49	501.54
Russia	. 8	20 21	36.48	42.58	52,15	65.30	97.61
East Europe	8	51	1.48	l	52.15 2.43 2.22 2.82	65.30 3.94 3.64 0.78	6 41 9 8
Sien leadag.	8	22 23	0.80 1.89	1.27. 2.22	2 82	3.64	9 0 5 8
China		2.4	0.48	2.22 8.47	0.57	8.70	1.03
China Mongolia		25	0.39	) 0.44	9.51.	J 9. 58.	8.3
Mongolie East Asia	8	25	1	4 40			
Mongolia East Asia Western Asia	8	26 27	0.39 3.69 9.30	4.48 8.37	8.44	8.53	1
Mongolia East Asia Vestern Asia Other Asia		26 27 28	9.30	0.37. 4.25	8,57 9,51 5,29 8,44 4,85	8.53 5.48	6.7
Mongolie East Asia Western Asia Other Asia West Europa North America	8: 8: 8:	26 27 28 29	9.30 3.76 8.46	0.37 4.25 0.53	4.85 0.61	6.26 8.53 5.48 8.70	6 1 0 8
Mongolie East Asia Western Asia Other Asia West Europa North America Oceania, etc.	8:8:8	26 27 28 29 38	9.30 3.76 8.46 0.97	0.37 4.25 0.53 0.08	4 85 0 61 0 10	1	6.17 0.88 0.1
Mongolie East Asia Western Asia Other Asia West Europa North America	8: 8: 8:	26 27 28 29	9.30 3.76 8.46	0.37 4.25 0.53	4.85 0.61	8,53 5,48 6,70 0,11 8,01 8,08 90,76	0.7 6.7 0.8 0.1 0.0 0.0 137.5

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	Code	No.	1995	2968	2005	2818	2928
Zhembul	-111	-244-					
to/from					40.10	50.10	
Almaty	9	3.	26.16 9.80	31.33 1.33	39.46 1.72	52.18 2.39	84.59 4.25
Kest Kasak. Aktyubinsk	9	3	9.60	8.45	0.58	2.88	1.41
Karaganda	9	4	8.88	8 30	0.40	9,88 8,57	1.07
Kustensy		5	1.12	1.32	1,70	2.34	4.06
Atyrau	9	6. 7.	0.00 0.00	9.30 9.07	8,39 8,89	8.55 8.13	0.98 0.25
East Kazak, South Kazak.	9 9	8	8.00	15,10	28.75	28.50	58.08
Zhambui	9	9	8.41	0.08	8.08	8.88	8.00
Akmola	9	10	8.88	8.15	9.29 9.87	0.38	9.58
Somipalatin.	9	<u>!</u> !.	9.60 9.60	0.05 0.05	0.07	0.18 8.18	0.19 0.18
Kokchetau Pavlodar	9	12 13	9.69	8.39	0.51	8.73	1.37
North Kazak	ş	1.14	8.89	3,66	8.85	1,16	2.04
Kzyl-Orda	9	15	0.00	2.55	3.42	3.24.	8.78
Zhezkazgan		) 6 ) 7	0.71 0.60	9.87 9.02	1.15 0.83	1.62 3.04	2,92 0,08
Turgai Nangistau	9	18	0.00	9.38	0.50	9.69	1.23
Taldykorgan	9	19	0.00	8.65	0.85	1.17	2.09
Subtotel			28.48	56.97	72.75	98.11	166.15
Russia	9	21	2.28 9.68	11.54 2.71	14.56 3.56	19.38	31.74 8.82
East Europa Contral Asia	9 9	55	1.28	1.62	2,41	4 99 3.84	8.00
China	9	23	2.80	3.44	4.30	5.54	8.62
Mongolia	9	24	0.40	0.47	0.57	9.72	1.68
Eest Asia	9	25	8,61 5,73	0.70 6.97	0,82 8.45	9,96 18,43	1.24 14.59
Western Asia Other Asia	9.	28 27	B. 47	0.58	2.71	8 83	1.27
West Europe	9	28	5.85	6.73	7,75	9.12	11.85
North America	9	29	8.72	0.84	9,97	1.16.	1.54
Oceania, etc.	9.	30	8.11 3.91	6.13 6.62	0.16 0.02	0.19 0.82	0.25 0.03
A(riça Others	9.	31 32	8.98	e. 80	0.01	B. 81	0.81
Subtotal	¥		29,71	35.77	44.29	57.24	89.93
Total			58.11	92,74	117.83	155.35	255.17
Akmola to/from							
Almaty	1.0	1.	60.88	73.92	94,83	122,45	180.52
Wost Kasak,	10	3 .	0.00	2.03	2.76	3.90	6.81
Aktyubinsk	10 10	3.4	1.00   0.00	1.26 11.82	1,75 16,06	2 52 22 63	4.47 39.41
Karaganda Kustanay	10	5	0.08	1.37	1.86	2.63	4,68 11,77
Atyrau	10	6	3.30	4.05	5,39		· • • • • • • • • • • • • • • • • • • •
East Kazak.	. 10					7.27	11.77
South Kezak		?.	8.48	8.55	0.86	1.40	11.77 2.99
2 kan ku 1	10	8	8.48 1.18	8.55 1.39	0,86. 1,97	2.90	2,90 5,31
Zhambul Akmola	10 18 10	8.	8.48	8.55 1.39 0.15	0,86 1,97 8,28	1.40 2.90 9.30 0.00	2.90 5.31 0.58
Akmola Semipalatin.	18 10 18	8 9 16	8.48 1.16 8.88 8.89	8.55 1.39 0.15 0.00	0,86 1,97 0,20 0,00	1,48 2,98 9,30 8,00 1,25	2.99 5.31 0.58 0.90 2.23
Akmola Semipalatin. Kokchetau	18 10 18 18	8 10 11 12	8,48 1,18 8,88 8,89 3,80 9,80	0.55 1.39 0.15 0.60 0.64 2.23	9,86 1,97 8,28 9,88 9,88 3,85	1,48 2,98 8,39 8,00 1,25	2.98 5.31 0.58 0.00 2.23 7.50
Akmola Semipalatin. Kokchetau Paylodar	18 10 18 18	9 16 11 12	8.48 1.18 8.38 9.99 9.00 9.00	0.55 1.39 0.15 0.60 0.64 2.23	9,86 1,97 9,29 9,88 9,88 3,85	1,48 2,98 8,30 6,80 1,25 4,28 13,82	2.98 5.31 0.58 0.00 2.23 7.50 22.74
Akmola Semipalatin. Kokohetau Paylodar North Kazak.	18 10 18 18	8 10 11 12	8.46 1.16 8.36 9.69 9.69 9.60 8.60 8.60	9.55 1.39 9.15 9.69 9.23 6.79 1.62	9 86 97 9 29 9 88 3 95 9 24	1,48 2,98 0,30 0,90 1,25 4,28 13,02 3,15 0,52	2, 98 5, 31 8, 58 9, 23 7, 50 22, 74 5, 56 8, 99
Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhezkazgan	18 10 18 10 10 10 10	8 9 10 11 12 13 14 15	8. 46 1. 10 8. 88 8. 89 9. 89 9. 89 9. 89 9. 89 9. 89 9. 89	6.55 1.39 9.160 9.64 2.23 6.79 1.625 9.67	6.7.8.9.9.9.5.4.2.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9	1,48 2,90 0,30 0,00 1,25 4,28 13,02 3,15 0,52	2.98 5.58 9.923 7.59 22.74 5.59 9.11
Akmola Semipalatin. Kokohetau Paylodar North Kazak. Kzyl-Orda Zhazkazgan Turgal	10 10 10 10 10 10 10 10	8 9 10 11 12 13 14 15	8. 46 1. 10 9. 86 9. 80 9. 80 9. 80 9. 80 9. 80 9. 80 9. 80 9. 80 9. 80	6.55 1.39 9.15 9.64 2.23 6.79 1.625 9.25 9.47	6.7.8.0.0.0.5.4.0.0.0.5.4.0.0.0.0.0.0.0.0.0.0	1, 48 2, 90 0, 30 0, 00 1, 25 4, 28 13, 02 3, 15 0, 52 1, 56 0, 32	2.99 5.35 9.58 9.69 2.37 7.50 2.74 5.59 9.31
Akmola Semipalatin. Kokchetau Paylodar North Kezak. Kzyl-Orda Zhazkazoan Turgal Mangiatau	10 10 10 10 10 10 10 10	8 9 16 11 12 13 14 15 16 17	8.46 1.18 8.89 9.89 9.80 9.80 9.80 9.50 9.50	0.55 1.39 0.15 0.64 2.23 6.79 1.62 0.25 0.17 0.17	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1, 48 2, 90 0, 30 0, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 0, 32 9, 99	2.5.00 2.
Akmola Semipalatin. Kokohetau Paylodar North Kazak. Kzyl-Orda Zhazkazgan Turgal	18 10 18 18 18 18 18 18 18	8 9 10 12 13 14 15 16 17	8. 46 1. 19. 8. 89 9. 80 9. 80	6.55. 1.39. 9.160 9.64 2.23 6.79. 1.625 9.17 9.17	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1, 48 2, 98 8, 80 8, 80 1, 25 4, 28 13, 82 13, 82 1, 56 8, 32 8, 99 8, 17	2.90 5.55 0.00 2.23 7.50 2.56 0.99 3.11 0.57 1.30 3.11
Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhezkazgan Turgal Hangistau Taldykorgan Sublotal Rusaia	18 19 18 18 19 10 10 10 10	10 12 13 14 15 16 17 18	8. 46 1. 10 9. 86 9. 80 9. 80	6.55. 1.39. 9.160 9.64 2.23 6.79. 1.625 9.17 9.17	9,86 ,97 9,28 9,89 9,89 ,92 2,22 0,36 ,93 0,70 0,12 143,48 58,55	1, 48 2, 90 0, 30 0, 80 1, 25 4, 28 13, 92 3, 15 0, 52 1, 56 8, 32 8, 99 9, 17 191, 25 75, 54	2.90 5.31 0.58 0.90 2.23 7.50 22.74 5.56 0.57 1.74 0.57
Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhezkazgan Turgal Mangistau Taldykorgan Subtotal Russia East Europe	18 10 18 18 19 10 10 10 10 10	10 12 13 14 15 16 17 18	8. 46 1. 10 9. 86 9. 80 9. br>90 90 90 90 90 90 90 90 90 90 90 90	6.55. 1.39. 9.160 9.64 2.23 6.79. 1.625 9.17 9.17	9, 86, 9, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	1, 48 2, 98 8, 30 8, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 8, 32 8, 99 8, 17 191, 25 75, 54 11, 77	2.5.8.9.3.0.2.5.7.4.5.5.9.3.1.7.4.5.9.3.1.3.1.3.1.3.1.3.1.3.1.3.1.3.1.3.1.3
Akmole Semipalatin. Kokchotau Paylodar North Kazak. Kzyl-Orda Zhozkazgan Turgal Hangiatau Taldykorgan Subtotal Rusaia East Europo Control Asia	18 10 18 18 10 10 10 10 10 10	10 12 13 14 15 16 17 18	8, 48 1, 19, 19, 19, 19, 19, 19, 19, 19, 19, 1	6.55. 1.39. 9.160 9.64 2.23 6.79. 1.625 9.17 9.17	9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	1, 48 2, 98 8, 30 8, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 8, 32 8, 99 8, 17 191, 25 75, 54 11, 77	2.98 5.58 6.923 7.574 2.5.56 9.311 9.574 9.574 9.574 9.574 9.574 9.574
Akmola Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhezkazgan Turgal Mangistau Taldykorgan Subtotal Russia East Europe	18 10 18 18 19 10 10 10 10 10	8: 9: 10: 12: 13: 14: 15: 16: 17: 18: 19: 21: 22: 23: 24: 24: 24: 24: 24: 24: 24: 24: 24: 24	8, 46 1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	6.55. 1.39. 9.160 9.64 2.23 6.79. 1.625 9.17 9.17	9, 86 9, 28 9, 28 9, 28 9, 28 9, 22 9, 23 9, 23	1, 48 2, 98 8, 30 8, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 8, 32 8, 99 8, 17 191, 25 75, 54 11, 77	2.98 5.58 6.923 7.574 2.5.56 9.311 9.574 9.574 9.574 9.574 9.574 9.574
Akmole Semipaletin. Kokcheteu Peylodar. North Kezak. Kzyl-Orde Zhozkazgan Turgai Hangistau Taldykorpan Sublotal Russia East Europa Contral Asia China	10 10 10 10 10 10 10 10 10 10 10 10 10	8: 9: 10: 12: 13: 14: 15: 16: 17: 18: 19: 21: 22: 23: 24: 24: 24: 24: 24: 24: 24: 24: 24: 24	8. 46 1. 10 9. 86 9. 80 9.	6.55 1.39 9.160 9.64 2.23 6.79 1.625 9.67 0.17 0.51 0.949 45.87 6.58 3.38 6.59 1.72	9, 86 9, 28 9, 28 9, 28 9, 28 9, 22 9, 23 9, 23	1, 48 2, 98 8, 30 8, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 8, 32 8, 99 8, 17 191, 25 75, 54 11, 77	2.5.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0
Akmole Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhozkazgan Turgel Hangistau Taldykorgan Subtotal Rusaie East Europe Central Asia China Hongolie East Asia	10 10 10 10 10 10 10 10 10 10 10 10 10	8: 9: 10: 12: 13: 14: 15: 16: 17: 18: 19: 21: 22: 23: 24: 24: 24: 24: 24: 24: 24: 24: 24: 24	8. 46 1. 10 9. 86 9. 80 9.	6.55 1.39 9.160 9.64 2.23 6.79 1.625 9.67 0.17 0.51 0.949 45.87 6.58 3.38 6.59 1.72	9,86 -9,28 9,88 9,88 9,24 9,24 9,24 9,27 9,27 9,17 143,48 58,55 10,96 10,96 11,13 22,13	1, 48 2, 98 8, 30 8, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 8, 32 8, 99 8, 17 191, 25 75, 54 11, 77	2.5.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0
Akmole Semipalatin. Kokchotau Paylodar North Kazak. Kzyl-Orda Zhozkazgan Turgel Hangistau Taldykorgan Subtotal Russia East Europo Central Asia Chine Hongolia East Asia Western Asia	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8:9:0:1-12:4:5:6:1-12:4:0:6:1-12:4:0:6:1-12:4:0:6:1-12:4:1	8. 46 1. 19. 8. 89. 9. 99. 9. 99.	6 55 1 39 9 15 9 64 2 23 6 7 9 67 9 67 9 57 9 57 9 57 9 58 9 59 1 40 1 72 1 40 1 72 1 73 1 74 1	9,86 -9,28 9,88 9,88 9,24 9,24 9,24 9,27 9,27 9,17 143,48 58,55 10,96 10,96 11,13 22,13	1, 48 2, 98 8, 30 8, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 8, 32 8, 99 8, 17 191, 25 75, 54 11, 77 5, 88 13, 82 2, 97 2, 58 28, 93 28,  2. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	
Akmola Semipalatin. Kokchotau Paylodar North Kazak. Kzyl-Orda Zhazkazgan Turgal Mangiatau Taldykorgan Subtotal Russia East Europa Contral Asia China Mongolia East Asia China Mongolia East Asia Western Asia Uther Asia	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8:9:0:1-12:33 1-15:0:17 1-	8, 46 1, 10 8, 80 9, 80 9, 80 9, 80 9, 80 9, 50 9, 60 9, 50 9, 60 9, 60 9, 60 9, 70 9, 80 1, 70 1, 20 1,	0.55. 1.39. 9.64. 9.64. 2.23. 6.79. 1.25. 9.67. 0.17. 0.51. 0.94. 1.72. 1.73. 1.74. 1.	9, 86 1, 9, 20 9, 20 9, 20 9, 20 9, 20 9, 20 9, 20 9, 20 9, 20 9, 20 1, 20	1, 48 2, 98 8, 30 8, 80 1, 25 4, 28 13, 82 3, 15 8, 52 1, 56 8, 32 8, 99 8, 17 191, 25 75, 54 11, 77 5, 88 13, 82 2, 97 2, 58 28, 93 28,  2.5.5.00 2.5.00 2.	
Akmole Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhozkazgan Turgel Hangistau Taldykorgan Subtotal Russie Eest Europe Centrel Asia China Mongolie East Asia. Western Asia Other Asia	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8 9 9 1 12 13 14 5 16 17 18 9 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8. 48 1. 188 8. 89 8. 89 9. 90 9.	6.55 1.39 9.15 9.64 2.23 6.79 1.62 0.67 0.17 0.51 0.949 45.87 6.58 3.38 6.58 3.38 6.79 45.87 6.43 6.53 6.58	9, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	1, 48 2, 98 8, 30 8, 90 1, 25 4, 28 13, 82 13, 82 1, 56 8, 99 9, 17 191, 25 75, 54 11, 77 5, 83 13, 82 2, 97 2, 97 2, 58 28, 93 28, 93	0.000000000000000000000000000000000000
Akmole Semipalatin. Kokchotau Paylodar North Kazak. Kzyl-Orda Zhazkazgan Turgel Hangiatau Taldykorgan Subtotal Russia East Europe Central Asia China Hongolia East Asia Western Asia Western Asia West Europe North America Oceania, etc. Africa	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8 9 9 1 1 2 1 3 1 4 5 1 6 1 7 1 8 1 9 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	6, 46 1, 19, 19, 19, 19, 19, 19, 19, 19, 19, 1	6 55 1 39 9 15 9 64 2 23 6 7 9 25 9 67 9 25 9 67 9 16 109 49 45 87 109 49 45 87 17 93 1 41 16 43 9 9 94	9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 -	1, 48 2, 98 8, 30 8, 90 1, 25 4, 26 4, 26 13, 82 13, 82 1, 56 8, 99 9, 17 191, 25 75, 54 1, 77 5, 83 13, 82 2, 87	0.000000000000000000000000000000000000
Akmole Semipalatin. Kokchetau Paylodar North Kazak. Kzyl-Orda Zhozkazgan Turgel Hangistau Taldykorgan Subtotal Russie Eest Europe Centrel Asie China Mongolie East Asie Western Asia Other Asie Nest Europe North America Oceania, etc.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8 9 9 1 12 13 14 5 16 17 18 9 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8. 48 1. 188 8. 89 8. 89 9. 90 9.	6.55 1.39 9.15 9.64 2.23 6.79 1.62 0.67 0.17 0.51 0.949 45.87 6.58 3.38 6.58 3.38 6.79 45.87 6.43 6.53 6.58	9, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	1, 48 2, 98 8, 30 8, 90 1, 25 4, 28 13, 82 13, 82 1, 56 8, 99 9, 17 191, 25 75, 54 11, 77 5, 83 13, 82 2, 97 2, 97 2, 58 28, 93 28, 93	0.000000000000000000000000000000000000

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<u> </u>	Code No		5898	2005	2818	2020
Semipalatinsk	<u>u u u</u>	<u> </u>		**************************************	1	
to/from	<b>.</b>					<u> </u>
Almaty		1 52.93	59.42	71,46	87.68	127.58
Nest Kasak. Aktyublask		2 9.88 3 0.68		0.95 0.35	1,28 0.47	2.25 0.82
Kereçande		4 0.11	0.19	8.38	9.73	1.84
Kustanay		5	8.97	8.89	0,13	0.24
Atyrau		6 0.00 7 0.00	4.38 2.48	5,36 3,14	6.68 4.25	18.15 7.46
East Kazak. South Kazak.		8 0.00	6.62	8.80	1.67	1.82
Zhanbul	11 ]	9 0.00	0.05	0.07	0.10	0.19
Akmola		10   8.00	8.64	0.88	1.25	2.23
Semipalatin. Kokohetau		1 4.42 2 8.00	4.99 8.05	6.56 0.07	8,84 8,09	15.53 0.17
Payloder	i îi li	3 8.88	6.04	7.86	18.61	18.50
North Kazak.		4 8.00	0.07	, , , , , , , , , , , , , , , , , , ,	8,14	0.26
Kzyl-Orda Zhezkazgan		5 0.32 6 0.65	0.48 0.74	0,60 0.98	8.89 1.32	1.82 2.29
Turgoj		7 9.00	0.01	0.82	8.63	0.05
Mangistau		8 9.03		6,53	8.13	12.32
Taldykorgan Subtotal	!!	58.43		0.59 186.79	8.79 134.48	1.39
Russia	11 8	8 12.89		18.88	23,88	36,68
East Europe		0.28	0.29	8.46	9.77	1.66
Central Asia		2 0.28 3 0.48	0.25 0.50	8.35 8.65	8.49 8.86	0.91
China Hongolia		3 0.48 4 0.88	8.80	8.94	1.18	1.45
East Asia		5 0.07	6.98	9.09	8, ),1	3.14
Western Asia		6 0.66		0.98	1.17	1.60
Other Asia West Europe		7 0.05 8 0.67	8.67 8.17	Ø. 98 Ø. 90	0.10 1.02	0.14 1.30
North America		9 0.08	0.10	0.11	8,13	0.17
Oceania, etc.		0.01	0.62	0.02	6.02	0.03
Africa Others		0.00	8.68	0.00 0.00	8, 86 8, 88	0,00 0,00
Subtotal		15.15		23.47	29.65	45.53
Total		73.58	184,52	130.25	164.13	252.44
Kokchelau to/from		1				
Almaty	12	1 20.98	23.58	29.03	36,01	53.42
West Kasak.	15	2 0.08	1.15	1.49	2.01	3.49 0.20
Aktyubinsk	15	3 0.68 4 0.68	8.06 1.96	0.98 2,55	8.11 3.45	8.28 6.83
Karaganda Kustanay	12	5 0.00	1 3.37	1,78	2,39	4.14
Atyreu	12	6 0.58	8.61	0,88	1.07	1.86
East Kazak.	12	7 0.00 8 0.30	0.67 0.38	0,09	8,13 8,77	8.24 1.46
South Kazak. Zhambul	12	9 0.00	0.05	0.53 0.07	9.10	1.46 8.18
Aknola	18	0.00	5.53	3,85	4,28	7.58
Semipalatin.		0.00	8.85	0.87 0.89	8,89 8,88	8.17
Kokchelau Paylodar		2 0.68 3 0.88	1.83	8.39	3.22	9.99 5.69
North Kazak.		4 0.98		3.88	5.22	9.28
Kzyl-Ords	12 12 12	5 0.00 6 0.28	8.88	3.86 0.11 0.37	9.16 9.54	8.38
Zhezkazgan Turgai	12	7 9.09	8.11	0.14	0,54 0,19	1.06 9.34
usteignet	15	18 15.80	17,75	0.14 21.62 0.84	26,21	9.34 37.76
Taldykorgan	12	9 9.00	0.83	0.04	8.85	8.09
Subtotal Russia	12 3	36.80 5.00	5.91	68.87 7.51	86.01 9.77	132,94 15,74
East Europa	12 6	1.20	1.46	7.51 1,92	9.77 2.63	4,56
Central Asia	1.2	2 8.69	0.71	9.91	1,19	1.93
China Hongolia	15	2 0.69 3 1.49 4 8.20	8.23	0.91 2.89 8.38	1,19 2,56 8,33	3.76 2.47
East Asia	12	4 8,20 5 8.30 6 2,82	0.34	0.39	8,45	8.56
Wastern Asia	12	25 8.38 26 2.82 7 8.23	0.34 3.35 0.28	0.39 4.08 9.34	8.45 4.85	8.56 6.57
Other Asia West Europe	12	27   8.23	1 0.28	9,34	8.41	0.57
North Saerica	12 12 12	8 8.35	0.40	3,74 8,47	8.41 4.24 0.54	5.33 0.69
Oceania, etc.	1.2	8,06	0.88	0.07	8.63	0.11
Africa	12	31   8.81	0.01	0.61	8.01	9.01
	12	2 2 2			0 04	
Others Subtotal	12	92 0.00 15.05	0.00	3.00 21.81	27.06	8.00 40.32

	Code	No.	1995	2889	2005	2810	( <u>ebneeuc</u> 2026
	(1)	())	1993	2000	2003		
Pavloder	} <del>}</del>	1-1-		1			
to/from	<u> </u>	<b>!</b>		I			ļ
Almaty	. 13.	} <u>\$</u> .	88.60	105.91	138.85	164.64	249.18
Vost Kasak	1.3	<u> </u>	0.68	2.42	3,13 1,93	4.21 2.82	7.28
Aktyubinsk Karaganda	13.	3.	1.18 8.88	1.48	16.35	22.05	38,19
Kustanay	Ιž		8.00	9.83	1.08	1,58	2.73
Alvrau	13	6	9.00	1.28	1,56	2.18	3.64
East Kazak.	13	li.	9.49	8.89	1.95	3.91	9.93
South Kezak.	13	8.	4.18	5.04	6.73	9.37	16.75
Zhambul	1.3	9.	0.00	0.39 6.79	0.51	0.73	1.37
Akmola	1.3	1.0	0.00 0.00	6.79	9.24 7.88	13.02	22.74 18.50
Semipaletin. Kokchetau	13. 13	!\  !2	0.00	6.04 1.83	7,88 2,39	3.22	5.68
Pavlodar	3	13	0.00	8.88	0.88	6,66	0.86
North Kazak.	13	14	9.00	1,96	2,55	3,45	6.04
Kzyl-Orda	13	[ ]5	3.58	4.40	5.97	8,15	14.65
Zhezkazgen	13	16	8.00	8.41	0.55 0.33	8.76	1
Turqei	1.3	ļ <u>!.7</u> .	8.08	8.26	0,33.	9,45	8.78
nangistau Tangistau	13	<u>18</u>	8.89	24.65 8.39	30.29 8.48	37.51 8.55	55.88 0.99
Taldykorgan Subtotal	13	13	97.78	177.35	223.69	289.83	460.96
Russia	13	28	43.80	51.19	62.48	77.58	114.28
East Europe	13	21	1.28	1.52	2.10	3.83	5.61
Centrel Asia	1.3	22.	6.88	5.86	7.19	9,01	13.51
China	1.3	53	1.68	1.96	2,46	3,13	4.85 0.53
longoi is	13 13	2.1.	9.58	0,23 0,40	8.29 8.46	8.36	J
East Asia Western Asia	13.	25	8,35 3,30	3.96	4,77	8,52 5,66	0.64 7.51
Other Asia	13	26 27	0.27	0.33	0.49	9.48	0.60
lest Europe	13	58	3.37	3.82	4.38	4,95	6.13
orth America	13	29	0.41	0.47	8,55	8.63	9.89
oceania, etc.	13	30	0.97	0.08	8.89	8,18	0.13
A(riça	13	31.	0.01	8.81	8.81.	9.81	8.02
Others	13	35	0.00	9.00	8.80	0.00	154.74
Subtotal Total	ļ		59.57 157.27	69.82 247.18	85.11 308.79	105.38 394.41	615.70
North Kazak.	<del> </del>		131.21	541.19	360,19	334.41	012.10
to/from				1			
Almety	14	1.	13.90	16, 62	20,78	26.58	41.37
West Kasak.	1.4	2 3	0.00	1.38	1,78	2.41	4.28
Aktyubinsk	. 14	3.	0.00	8.88	8.11	9,16	8.29
Caraganda	1.4	4.	0.08	2.09	2,72	3.78	6.51
			0.00			0.61	4 5 7
Kustanay	1.4.	5.	0.88	1.49	1.92	2.61	4.52
ityrau	14	5	0.78	0.85	1.12	1,51	2.64
Atyrau East Kazak	14	6 7	9.78 9.66	8.85 8.11	1.12 0.15	1.51 6.28	2.64 0.38
htyrau agt Kazak. South Kazak.	14 14 14	6 7 8	0.78	0.85 0.11 6.28 2.66	1.12 0.15 7.62 0.85	1,51 6,28 9,88 1,16	2.64 0.36 15.51
ityrau Fast Kazak South Kazak Zhambul Ikmola	14 14 14 14	6 7 8 9	9.78 9.66 5.28 9.68 9.60	9.85 8.1 6.98 9.66 1.62	1.12 0.15 7.62 0.85 2.22	1,51 8,28 9,88 1,16 3,15	2.64 0.36 15.51 2.64 5.56
ityrau ast Kazak, auth Kazak, hambul ikmola iemicalatin,	14 14 14 14 14	6 7 8 9	0.78 0.66 5.28 0.68 0.88	9.85 9.11 6.28 9.66 1.62	1.12 9.15 7.62 9.85 2.22 9.18	1.51 8.28 9.88 1.16 3.15	2.64 8.36 15.51 2.64 5.56 9.26
ityrau ast Kazak. outh Kazak. hambul hambul ikmola iem (palatin. okchatau	14 14 14 14 14	6 8 9 10 11	9.79 9.98 5.28 9.89 9.89	9, 85 9, 11 6, 98 9, 66 1, 62 8, 97 2, 98	1.12 9.15 6.2 9.85 2.2 9.19	1,51 8,28 9,88 1,16 3,15 8,14	2.64 0.38 15.51 2.64 5.56 9.68
ltyreu eet Kazek. Gouth Kazek. hembul ikmole iemipeletin. Okchetau aylodar	14 14 14 14 14 14	6'7' 8' 9' 9' - ' \ ' \ ' \ ' \ ' \ ' \ ' \ ' \ ' \	6.76 6.28 5.28 6.88 6.88 6.88 6.88	85 8 11 6 98 9 66 1 66 2 98 1 96	- 0.5.0.5.0.5.0.5.0.5.0.5.0.5.0.5.0.5.0.5	1,51 6,28 9,88 1,16 3,15 8,15	2.64 8.38 15.51 2.64 5.56 9.66
ltyrau aat Kazak cyth Kazak ibambui kmola emipaletin okchetau aylodar orth Kazak	14 14 14 14 14 14	6'7' 8' 9' 9' - ' \ ' \ ' \ ' \ ' \ ' \ ' \ ' \ ' \	9,76 6,00 6,00 6,00 6,00 6,00 6,00 6,00 6	85 8 11 6 98 9 66 1 66 2 98 1 96		1, 51 6, 28 9, 86 1, 16 3, 15 8, 14 5, 22 9, 45 8, 80	2.64 8.38 15.51 2.64 5.56 9.68 6.64
llyrau aat Kazak outh Kazak hambui kmola emipaletin okohetau aylodar orth Kezak	14 14 14 14 14 14 14 14	@:~:@:@:~:\\;\\;\\;\\;\\;\\;\\;\\;\\;\\;\\;\\;\\;	6 8 8 8 8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	6.6.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	- 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 0.00 - 0.00	2.63.5.64.65.66.69.69.69.69.69.69.69.69.69.69.69.69.
ltyrau aat Kazak. outh Kazak. thembul kmola emigaletin. okchetau aylodar orth Kezak. zyl-Orde	14 14 14 14 14 14 14 14	6;~\&;9;\$;-\\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\	6 8 8 8 8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	\$\tau_\$\text{\$\exintet{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$	- 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 0.8 6.5 7.5 4.8 7.5 6.5 5.5 6.5 6	2, 64 9, 35 15, 51 2, 64 5, 56 9, 26 9, 08 2, 63 9, 26
tyrau aat Kazak. outh Kazak. hambul kmola emigalatin. okohetau aylodar orth Kazak. zyl-Orda Lyl-Orda urka:	14 14 14 14 14 14 14 14 14	6: 7 8: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9: 9:	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.6.6.6.4.7.6.6.5.6.6.8.6.6.6.6.6.6.6.6.6.6.6.6.6.6		5-0.8 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	2.64 9.36 15.51 2.64 5.56 9.26 9.08 6.64 0.00 2.65 0.00
tyrau ast Kazak outh Kazak hambul kmola emigaletin okohetau 4ylodar orth Kazak zyl-Orda hexazaan urga: angisteu aldykorgan	14 14 14 14 14 14 14 14	6;~\&;9;\$;-\\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.		- S - S - S - S - S - S - S - S - S - S	2, 64 9, 36 15, 51 2, 64 5, 56 9, 66 9, 66 1, 66 0, 26 1, 10 1, 10
tyrau aat Kazak guth Kazak hembul kmola emigaletin okohetau aylodar orth Kezak zyl-Orde heikszagan ur&; angisteu aidykorgan Subtotal	14 14 14 14 14 14 14 14 14 14	6:7 8:9 9 19 19 19 19 19 19 19 19 19 19 19 19	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6.6.6.6.7. 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6		1	2.64 9.38 15.51 2.64 5.56 9.88 6.84 6.84 6.84 1.98 1.98
tyrau aat Kazak. cuth Kazak. hembul kmola emigaletin. okchetau aylodar crth Kezak. zyl-Orde he:kszgan urka: angisteu aldykorgan subtotal usaia	14 14 14 14 14 14 14 14 14 14	6:7 8:9 9 19 19 19 19 19 19 19 19 19 19 19 19	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6.6.6.6.7. 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	- 10 (8) (8) (1- 10) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	1	2.64 9.38 15.51 2.64 5.56 9.88 6.84 6.84 6.84 1.98 1.98
tyrau aat Kazak. cuth Kazak. thembul tkmola emigaletin. ckchetau aylodar. lorth Kezak. zyl-Orde he:kszgen urkt langisteu aldykorgen subtotel ussie	14 14 14 14 14 14 14 14 14 14	6:7 8:9 9 19 19 19 19 19 19 19 19 19 19 19 19	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.6.6.6.7. 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6	- 10 (8) (8) (1- 10) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	- 51 - 52 - 53 - 15 - 15	2,64 9,36 15,57 2,64 5,56 9,66 9,66 0,86 0,26 1,86 0,26 1,11 1,02 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04
lyrau ast Kazak cyth Kazak hambui kmola emigaletin okohetau aylodar orth Kazak zyl-Orda he: \azaa lozaa aldykorgan subtotal usaia ast Europe entral Asia	14 14 14 14 14 14 14 14 14 14 14	6:7 8:9 9:10 6:17 8:9 19:10 6:17 8:19 19:10 19:1	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.6.6.6.7. 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6		- 51 - 52 - 53 - 15 - 15	2,64 9,36 15,57 2,64 5,56 9,66 9,66 0,86 0,26 1,86 0,26 1,11 1,02 1,04 1,04 1,04 1,04 1,04 1,04 1,04 1,04
tyrau ast Kazak couth Kazak hambul kmola emipalatin okohetau 4ylodar cyth Kazak zyl-Orda he: kazak aidykorgan subtotal usaia ast Europo entral Asia hina	14 14 14 14 14 14 14 14 14 14 14	6:7 8:9 9:10 6:17 8:9 19:10 6:17 8:19 19:10 19:1	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.6.6.6.7. 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6		- 5- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6-	2.64 9.36 15.5; 2.64 5.56 9.66 9.66 9.26 1.98 9.26 1.18 104.53 2.66 2.65 2.65 9.65
tyrau aat Kazak. cuth Kazak. hembul kmola cmlcaletin. okchetau aylodar crth Kezak. zyl-Orda he:kszgan urka: angistau aldykorgan subtotal usaia apt Europo entral Asia hina ongolia	14.14.14.14.14.14.14.14.14.14.14.14.14.1	6; - 0; 0; 0; - 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0;	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.6.6.6.7. 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6		- 5- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6-	2,64 9,36 15,51 2,64 5,51 9,08 6,04 0,09 2,65 1,11 1,02 104,53 2,66 2,66 2,66 2,66 3,06 6,64
tyrau ast Kazak cyth Kazak hambul kmola emigaletin okohetau avlodar orth Kazak zyl-Orda he:\s2zgan ur\s2: angisteu aldykorgan subtotal ussia ast Europa entral Asia hina est Asia	14 14 14 14 14 14 14 14 14 14 14 14 14 1	6; - 0; 0; 0; - 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0;	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.6.6.6.7. 6.6.6.6.6.6.6.6.6.6.6.6.6.6.6		- 5- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6- 6-	2.6 9.3 15.5 2.9 9.9 6.0 0.0 2.6 1.9 0.2 1.1 1.1 1.8 2.6 2.6 6.0 2.6 9.0 1.9 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9
lyyay ast Kazak cyth Kazak hambul kmols emigaletin okohetau aylodar aylodar zyl-Ords heikszgan urks aldykorgan subtotsl ussis ast Europo entral Asia hina ongolia estern Asia	14 14 14 14 14 14 14 14 14 14 14 14 14 1	6'7' 8'9' 9' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.5.4.6.6.4.7.6.6.5.6.7.6.6.6.7.7.6.6.6.7.5.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6		- 51 - 52 - 16 - 16	2, 64 9, 36 1, 5, 51 2, 64 5, 54 9, 66 6, 64 0, 66 1, 11 1, 82 104, 53 2, 66 2, 65 0, 66 0,
Atyrey  agt Kezek  South Kezek  Chembul  kmole  Semiceletin  Cokchetau  Caylodar  Caylodar  Largisteu  Largist	14 14 14 14 14 14 14 14 14 14 14 14 14 1	6; - 8; 9; 9; - 0; 0; - 10; 0; 0; - 10; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.5.4.6.6.4.7.6.6.5.6.7.6.6.6.7.7.6.6.6.7.5.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6.6.6.7.6		- 51 - 52 - 16 - 16	2.64 9.36 15.51 2.04 5.56 9.26 9.26 9.26 1.02 1.02 1.02 1.02 9.26 9.26 9.26 9.26 9.26 9.26 9.26 9.2
Atyrey  agt Kezek  South Kezek  Chembul  Akmola  Semigaletin  Cokchetau  Caylodar  Cylodar  Checkszyan  Lurks  Langisteu  Laldykorgan  Subtotal  Russia  Agt Euroga  Longolie  Agt Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia  Lohor Asia	14 14 14 14 14 14 14 14 14 14 14 14 14 1	6; - (8; 6) 6; - (8; 6) 6; - (8; 6) 6; - (8; 6) 8; - (	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.6.6.4.7.8.6.6.8.6.7.8.6.6.6.7.4.17.5.6.4.5.4.4.9 6.6.6.6.9.6.9.6.6.9.8.6.6.7.8.6.6.7.8.4.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9	~	- 51 - 52 - 16 - 16	2.64 9.36 15.56 9.26 9.26 9.26 9.26 1.92 1.92 1.92 2.60 9.50 9.50 9.50 9.50 9.50 9.50 9.50 9.5
Nyray  agt Kazak  South Kazak  thambul  kmola  som(paletin  cokohetau  aylodar  torth Kezak  (zyl-Orde  the:\szgan  ur\&\\  ur\&\\  tanqisleu  agt Euroge  central Agia  thina  lestern Agia  lestern Agia  lest Europe  corth Agia  lest Europe  corth Agia  lest Europe  corth Agia  lest Europe  corth Agia	14 14 14 14 14 14 14 14 14 14 14 14 14 1	6; - (8; 6) 6; - (8; 6) 6; - (8; 6) 6; - (8; 6) 8; - (		6.6.6.4.7.8.6.6.6.6.8.6.6.6.7.4.17.5.6.4.5.4.4.7.5.6.6.6.6.6.6.8.6.6.6.7.8.6.6.6.7.4.17.5.6.4.5.4.4.7.5.6.6.6.6.6.8.6.6.6.7.8.6.6.6.7.8.6.6.6.7.8.6.6.6.7.8.6.6.6.7.8.6.6.6.8.8.6.6.8.8.6.6.8.6.6.6.8.8.6.6.8.8.6.6.8	~	- 1	2.64 9.36 9.36 9.26 9.09 9.09 1.02 1.11 1.02 1.04 9.06 9.06 9.06 9.06 9.06 9.06 9.06 9.06
ltyrau aat Kazak couth Kazak couth Kazak couth Kazak couth Kazak emigaletin cokchetau aylodar corth Kezak zyl-Orda heikszgan urks langisteu aldykorgan Subtotal uasia aat Euroga entral Asia hina congolia est Asia estern Asia ither Asia ither Asia est Euroga corth Anorice	14 14 14 14 14 14 14 14 14 14 14 14 14 1	6; - (8; 6) 6; - (8; 6) 6; - (8; 6) 6; - (8; 6) 8; - (	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	6.5.4.4.4.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	~	- 51 - 52 - 16 - 16	2.64 9.36 15.56 9.26 9.26 9.26 9.26 1.92 1.92 1.92 2.60 9.50 9.50 9.50 9.50 9.50 9.50 9.50 9.5
tyrau ast Kazak outh Kazak hambul kmols emigalatin okohetau aylodar zyl-Ords he: \$22gan urq2: aldykorgan subtots  ussis ast Europe entrs! Asia est Europe est Europe orth Asorice coania, eic.	14 14 14 14 14 14 14 14 14 14 14 14 14 1	6; - 8; 9; 9; - 0; 0; - 10; 0; 0; - 10; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0		6.6.6.4.7.8.6.6.6.6.8.6.6.6.7.4.17.5.6.4.5.4.4.7.5.6.6.6.6.6.6.8.6.6.6.7.8.6.6.6.7.4.17.5.6.4.5.4.4.7.5.6.6.6.6.6.8.6.6.6.7.8.6.6.6.7.8.6.6.6.7.8.6.6.6.7.8.6.6.6.7.8.6.6.6.8.8.6.6.8.8.6.6.8.6.6.6.8.8.6.6.8.8.6.6.8	~	- 51 - 52 - 52 - 53 - 15 - 53 - 53	2.64 9.36 9.55 9.66 9.66 1.06 1.07 1.08 104.53 2.66 9.66 9.66 9.66 9.66 9.66

			·				usends)
	Code		1995	5090	2005	2010	5958
Kzul-Orda	(1)	(1)					
to/from	į		i	<u> </u>			<u> </u>
Almaty	15	11	44.48	54.90 2.27	70.23	88.56	138.99
West Kasak,	1.5.		0.00	2	3,84	4.18	7.,3,1
Aktyubinsk		3.	8.00	9.21	0,29 1,29	8.41 2.34	0.75
Karaganda	15 15	4 5	3.40 1.30	8.68 1.65	2,30	3,27	5 78 6 19
Kustanay Atyrau	15	6 B	0.00	8.81	1.08	1.46	2 63
East Kazak.	15	ž	0.08	1.04	1.37	1.83	3.20
South Kazak.		8	0.88	7.19	9,48 3,42 0.36	12,74.	22.68
Zhambul	1.5	9.	9.98	2, 55	3.42.	4,74 8,52	8.78
Akmola	15.	1.0	9.88	8.25	3.36	6.52 6.89	8.99
Semipalatin.	15 15		9.38 9.89	9.48	0.68 0.11	8,89 8,16	1 . 8 2 Ø . 3 2
Kokchetau Paylodar	15	<u>12</u> .	3.50	4.48	5,97	8.15	14.68
North Kezek.	15	14.	8,08	9.86	1.14	1.53	2.69
Kzyl-Orda	15	15	8.08	0.00	0.99	0.00	9.00
Zhezkazoan	15	16	1.40	1.73	2.26	2,89	4.67
Iurgal	1.5.		9.99	8.67	0.10	9,13	6.5
Mangistau	15	18 19	9.98	8.71	0.95 0.14	1.28 0.20	2.38 0.37
Taldykorgan Subtotal	13	13	51.38	79,82	104.15	135,19	224.36
Russia	15	28	2.88	3.91	6,85	9.45	19.92
East Europe	15	21	8.68	1.05	2.81	3.67	8.89
Contral Asia	1.5	22	8.48	9.53	<b>0.7</b> 8.		2.18
China	15	23.	8.88	1.03	1.39	1,85	3.23
Mongolia East Asia	15	24 25	8.28 8.18	8.25 8.21	0.32 0.25	8.42 8.29	8.71 8.38
Western Asia	15	56	1.66	2.08	2.64	3,13	4.42
BieA 16410	15	27	0.14	8.17	0,22	8.27	0.36
West Europe	1.5	28	1.69	2.01	2,42	2.74	3.59
North America	15	29	0.21	9.25	0.30	0.35	0.47
Oceania, etc.	15.	3.0	0.03	8.04	0.05.	8.05	0.06
Africa Others	15. 15	31 32	0.00	8.60 8.00	0.81	8.23 8.23	0.81
Subtotal	.10	32	8.71	11.54	16.44	23.38	44.22
Total			60.91				
			00,01	91.36	128.58	158.57	268,58
Zhezkazgan	·		30.01	91.36	128.58	158.57	268,58
to/from							
to/from Almaty	16.	<u>\</u>	49.11	52.82	64.34	78.37	112.61
to/from Almaty West Kasak,	16	- w	49.11 0.68	52.82 1.31	64.34 1.71	78.37 2.31	112.61 4.05
to/from Almaty West Kasak. Aktyubinsk	16 16	3	49.11 0.08 0.12	52.82 1.31 8.13	64.34 1.71 6.19	78.37 2.31 8.26	112.61 4.05 0.55
to/from Almaty West Kasak,	16	3	49.11. 0.68. 0.12. 0.80.	52.82 1.31 8.13 1.79 8.38	64,34 1.71 6,19 2,34 8,49	78.37. 2.31. 8.26. 3.18. 8.67	112.61 4.05 0.55 5.63
to/from Almaty West Kasak, Aktyubinsk Karaganda Kustanay Atyrau	16 16 16 16	თ: 4: თ: 6	49.11 0.68 0.12 0.88 0.80 1.69	52.82 1.31. 6.13. 9.38	64.34 1.71 6.19 2.34 8.49 2.18	78.37. 2.31. 8.26. 3.18. 8.67	112.61 4.05 0.55 5.63 1.18
to/from Almaty West Kasak, Aktyubinak Karaganda Kustanay Atyrau East Kazak,	16 16 16 16	o;4;5;6;∼	49.11 6.00 6.12 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.2	52.82 1.31 0.13 2.78 2.78 0.76 0.05	64.34 1.71 9.19 2.34 9.49 2.18	78.37 2.31 8.26 8.18 8.67 2.62 6.10	112.61 4.85 9.55 5.63 1.18 4.59
to/from Almaty West Kasek. Aktyubinek Karaganda Kustanay Atyrau East Kazak. South Kazak.	16 16 16 16 16	თ;•;ა;6;~: დ	400 00 00 00 00 00 00 00 00 00 00 00 00	50-00-00-00-00-00-00-00-00-00-00-00-00-0	64-34- 64-31- 9-19-34- 9-14-88- 9-18-7	78, 37 2, 31 9, 26 3, 18 8, 67 4, 92 9, 93	112.61 4.05 0.55 5.63 1.18 4.59 0.19
to/from Almaty West Kasek, West Kasek, Karaganda Kustanay Atyrau East Kazak, South Kazak,	16 16 16 16 16 16	თ;•;ა;6;~: დ	49.00 49.00 60.00 60.00 1.00 60.00 1.00 60.0	50:	64 34 64 31 6 19 9 19 9 4 9 9 6 1	78.37 2.31 8.26 3.18 8.67 2.69 6.10 8.83 1.62	1 2. 61 4 . 65 6 . 56 5 . 63 4 . 69 6 . 14 6 . 49 6 . 49
to/from Almaty Heat Kasak, Akiyubinek Karaganda Kustanay Atyrau East Kazak, South Kazak. Zhambul Akmola	16 16 16 16 16	ო <u>, ო, თ, დ, ო, თ, თ, დ</u>	400 00 00 00 00 00 00 00 00 00 00 00 00	50-00-00-00-00-00-00-00-00-00-00-00-00-0	64-19-4-9-4-9-6-19-6-19-6-9-9-9-9-9-9-9-9-9-9-9-9-9	78.37 2.31 2.31 3.18 3.18 3.67 2.82 6.19 6.83 1.56	112.61 4.85 0.55 5.63 1.18 4.69 0.19
to/from Almaty Hest Kasek, Aktyubinek Keragande Kustanay Atyrau East Kazek, South Kazek, Zhembul Akmola Samigalatin, Kokchetau	16 16 16 16 16 16 16 16	ო; च; ഗ; ഗ; ద; ా; బ	4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	01-1-01-01-01-01-01-01-01-01-01-01-01-01	64-1-9-4-9-6-1-5	78, 31 20, 31 31, 32 31,  112.61 4.85 9.55 5.93 1.18 4.59 4.59 2.92 2.92 1.06	
to/from Almaty Jest Kasek Jest Kasek Geragende Gusteney Atyrau Gast Kazek South Kazek Thembul Akmole Samigeletin Gokcheteu	16 16 16 16 16 16 16 16	თ = : თ: დ : ~ : ი: დ : — : ი: თ		50-1-3-9-6-9-4-6-1-7-4-6-1- 50-1-3-7-8-4-6-7-7-4-6-1-9-6-6-7-2-4-6-1-9-6-6-6-7-2-4-6-1-9-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6	64-650,450,651-650,750,650,750,750,750,750,750,750,750,750,750,7	78, 37 78, 31 8, 26 8, 67 9, 67 9, 69 1, 56 1, 56	1 (2.6) 4.09 9.55 5.63 1.18 4.53 9.13 2.23 3.11
lo/from Almaty Jost Kasek, Jos	16 16 16 16 16 16 16 16	ო; <del>പ</del> ; ω; ω; ო; თ; თ; —; ∾; ო; <del>-</del>		50-1-3-9-6-9-4-6-1-7-4-6-1- 50-1-3-7-8-4-6-7-7-4-6-1-9-6-6-7-2-4-6-1-9-6-6-6-7-2-4-6-1-9-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6	64-650,450,651-650,750,650,750,750,750,750,750,750,750,750,750,7	78, 37 78, 31 8, 26 8, 67 9, 67 9, 69 1, 56 1, 56	1 (2.6) 0.5 0.5 5.6 1.18 4.5 1.45 2.92 3.11 2.25 1.06
lo/from Almaty Jost Kasek, Aktyubinek (aragende (usteney Atyrau iest Kazek, Ababbul Akmole Amigeletin (okcheteu avloder Jorth Kazek, (cyth Cazek,	16 16 16 16 16 16 16 16 16	∞; - 0; - 0; <b< td=""><td>1 8 2 6 6 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6</td><td>0::0:0:0:0:0:0:1:1:1:1:0:0:0:0 0::0:0:0:0:0:0:0:0:0:0:</td><td>64 - 9 4 9 8 7 - 5 - 8 7 7 3 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td><td>70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>112.63 4.81 0.55 5.03 1.18 0.14 2.92 3.11 2.92 1.06 1.41</td></b<>	1 8 2 6 6 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0::0:0:0:0:0:0:1:1:1:1:0:0:0:0 0::0:0:0:0:0:0:0:0:0:0:	64 - 9 4 9 8 7 - 5 - 8 7 7 3 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112.63 4.81 0.55 5.03 1.18 0.14 2.92 3.11 2.92 1.06 1.41
to/from Almaty Jest Kasek, Jest Kasek, Karagande Kustenay Atyrau Last Kazek, Kohanbul Akmola Samigeletin, Kokchetau Payloder Korth Kazak, Koyth Kazak, Kohanbul	16 16 16 16 16 16 16 16 16 16	က (ရ. ဟ. (တ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ	4, 8, 9, 6, 9, 8, 8, 4, 8, 9, 9, 9, 9, 9, 8, 8, 4, 8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,	01-1-3:0:0:0:5:1-1-4:0:1-3:0:0:0 01-1-3:0:0:0:5:1-1-1-4:0:1-3:0:0:0 01-1-0:1-0:0:0:0:0:0:0:0:0:0:0:0:0:0 01-1-0:1-0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0	0, 1 - 0, 4 0, 8 0, 0, 0, 0, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	70,000 00 00 00 00 00 00 00 00 00 00 00 0	112.69 4 .05 9.55 5.03 1 .18 2 .92 2 .92 1 .06 1 .06 4 .10
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to/from Almaty Jest Kasek, Jest Kasek, Karaganda Kustaney Atyrau Lest Kazak, South Kazak, Chambul Akmole Samipeletin, Kokchotau Paylodar North Kazak, Kayl-Orda Lhozkezgen	16 16 16 16 16 16 16 16 16 16	က (ရ. ဟ. (တ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ. (ထ	1 8 2 6 6 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0::0:0:0:0:0:0:1:1:1:1:0:0:0:0 0::0:0:0:0:0:0:0:0:0:0:	64 - 63 (4) (5) (5) (5) (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	112.61 9.55 5.63 1.18 4.65 1.45 2.92 3.11 2.29 1.67 4.67 4.67
to/from Almaty Almaty Jept Kapek, Aktyubinek Keragande Kustenay Atyrau East Kazek, Zhambul Akmola Semigeletin Kokcheteu Pavloder Yorth Kezak, Cyl-Orde Zhozkezgen Turgei Tangieleu Subtolel	-6.6 -6.6 -6.6 -6.6 -6.6 -6.6 -6.6 -6.6	の[4]の[6](14)(16)(16)(16)(16)(16)(16)(16)(16)(16)(16		0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0	6,1-10,14-0,16,17-10,17-	70, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	112.61 4.85 9.55 5.93 1.16 9.14 2.92 1.06 1.41 1.06 42.10 9.37 1.03
to/from Almaty Jest Kasek Aktyubinek Karagenda Kustanay Atyrau East Kazak South Kazak South Kazak South Kazak South Kazak Chembul Akmola Semigelatin Kokchetau Paylodar Yorth Kezak Czyl Orda Zhezkezgen Lurgai Tangistay Taldykorgan Subtolal Russia	-6. -6. -6. -6. -6. -6. -6. -6. -6. -6.	3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.1-0.0.0.0.0.0.7.7.1-4.0.1-3.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	6,1-10,14-0,16,17-10,17-	70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	112.61 1.2.61 0.55 5.63 1.18 4.59 0.145 2.92 3.11 1.06 1.40 1.06 1.40 1.06 1
to/from Almaty Heat Kasak, Heat Kasak, Karaganda Kustanay Atyrau East Kazak, South Kazak, Khambul Akmola Semigalatin, Kokchetau Paylodar Yorth Kazak, Czyl-Orda Lurgal Tangistau Taldykorgan Subtolal Russia	-6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	6,1-10,14-0,16,17-10,17-	70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	112.61 9.55 9.55 5.63 1.18 4.59 1.45 2.92 3.11 2.29 1.40 4.67 4.67 4.67 4.67 4.67 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67
to/from Almaty Jest Kasek, Jest Kasek, Karaganda Kustaney Atyrau Lest Kazek, South Kazek, South Kazek, Chembul Akmole Semipelatin, Kokchetau Payloder North Kazek, Kzyl-Orda Lhozkezgen Turqei Tangisteu Laldykorgen Subtotal Russie Lest Euroge Central Asia		の. マ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. い. い. い. い. い. い.		0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	6,1-10,14-0,16,17-10,17-	70 (4) (5) (7) (4) (6) (7) (7) (8) (7) (8) (8) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	112.61 9.55 9.55 5.63 1.18 4.59 1.45 2.92 3.11 2.29 1.40 4.67 4.67 4.67 4.67 4.67 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67 4.7.00 4.67
to/from Almaty Jest Kasek, Jest Kasek, Aktyubinek Karagande Kusteney Atyrau East Kazek, Koshatau Romole Samigeletin, Kokohetau North Kezak, Kzyl-Orde Zhezkezgen Lurgei Langistau Langistau Langistau Langistau East Euroge Eest Euroge Eest Euroge Eest Euroge Eest Euroge Eest Euroge		の. マ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. い. い. い. い. い. い.		01-03-03-03-03-1-1-1-1-1-1-1-1-1-1-1-1-1	0,7 0, 4, 0, 8, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	70 (4) (5) (7) (4) (6) (7) (7) (8) (7) (8) (8) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	112.61 4.85 9.55 9.63 1.15 9.14 2.92 1.41 2.92 1.41 1.67 4.67 4.67 4.67 4.67 4.67 4.67 4.67 4
to/from Almaty Lost Kasek Almaty Lost Kasek Keraganda Kustanay Atyrau East Kazak South Kazak South Kazak Kokchetau Paylodar Korth Kezak Keyl-Orda Zhezkezgan Lurgai Tangistay Taldykorgan Subtotal Russia East Euroga Central Asia China Tongolia		の. マ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. い. い. い. い. い. い.		01-03-03-03-03-1-1-1-1-1-1-1-1-1-1-1-1-1	64-634-636-64-63-64-64-63-64-64-63-64-64-63-64-64-63-64-64-63-64-64-63-64-64-64-64-64-64-64-64-64-64-64-64-64-	70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	112.61 4.85 6.55 5.63 1.18 4.55 0.145 2.92 3.11 1.06 1.45 1.46 1.47 4.6
to/from Almaty West Kasek, Aktywbinek Karagenda Kusteney Atyrau East Kazek South Kazek. South Kazek. South Kazek. Chembul Akmole Semigeletin. Kokchetau Payloder North Kezak. Kayl-Orda Lingel Hangistau Taldykorgen Subtotal Russia East Euroge Central Asia China Hongolie East Asia		の. マ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. い. い. い. い. い. い.		0.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	0, 1 - 0, 4 0, 6 1 - 0, -0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	112.61 112.61 1.55 5.63 1.18 4.53 1.45 2.92 3.11 2.93 1.40 4.67 4.2.12 4.67 4.2.13 1.90 4.53 4.67 4.53 6.73
to/from Almaty Almaty West Kasek, Kasek, Karayanda Kustanay Atyrau East Kasek, Zhambul Akmola Semigalatin, Kokchetau Pavlodar North Kazak, Kzyl-Orda Zhazkazgan Hangistay Haldykorgan Subtotal Rest Euroge Central Asia China Hongolia East Euroge Central Asia China Hongolia East Asia		の. マ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. い. い. い. い. い. い.		0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0	0, 1 - 0, 4 0, 6 1 - 0, -0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	70 (2) (2) (2) (3) (4) (5) (4) (6) (7) (4) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	112.61 4.85 6.63 1.45 6.145 2.92 2.96 1.41 1.66 4.66 4.66 4.66 4.66 4.66 4.6
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to/from Almaty Almaty Heaty Heaty Heaty Heaty Heaty Heaty Heaty Atyrau East Kazak South Kazak South Kazak South Kazak South Kazak South Kazak Kostanay Atyrau East Kazak Lonandal Kokchetau Paylodar North Kazak Kzyl Heatin Heatin Kokchetau Paylodar North Kazak Kzyl Heatin Heat	6.	の. マ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. い. い. い. い. い. い.		01-030000000000000000000000000000000000	0;	70, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	112.61 4.85 6.55 6.63 1.18 4.59 1.45 2.92 1.06 1.41 1.06 42.10 42.10 1.06 42.10 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1
to/from Almaty Almaty Heat Kasek Kasek Karaganda Kustanay Atyrau East Kazak South Kazak South Kazak South Kazak South Kazak South Kazak Kokchetau Paylodar North Kazak Kayl-Orda Zhezkezgen Hurgai Hangistay Taldykorgan Subtodal Rusaia East Euroge Central Asia Cohina Hongolia East Asia Hongolia East Asia Hongolia East Asia	6: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6	ສ] =   ທ; ຜ; ຕ; ໝ່ ສ; ຜ; ຜ; ສ   ຜ; ຜ; ໝ່ ສ] ສ   ຜ; ພ; ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່ ໝ່		0 0. 0. 0. 0. 0 1 1. 0 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	4; - 9; 4; 9; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6;	70, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	112.61 4.85.5 0.55.33 1.189 1.45.9 1.49.1 2.39.1 1.41.66
to/from Almaty Almaty West Kasek, Aktywbinek Karagenda Kustanay Atyrau East Kazek South Kazek South Kazek South Kazek South Kazek Nonth Kazek North Kazek Mareledin Mareledin Mareledin Mareledin Mareledin Mareledin Mareledin Mareledin Mareledin Mareledin Subtotal Russie East Euroge Central Asia China Hongolia East Euroge Western Asia Othor Asia Western Asia Othor Asia Western Asia	6.	の. マ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. つ. つ. つ. つ. つ. い. い. い. い. い. い. い. い. い. い. い. い. い.		01-030000000000000000000000000000000000	0;	70, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	112.61 4.85 9.55 9.63 1.18 9.14 1.45 9.14 1.46 1.46 1.46 1.46 1.46 1.46 1.46 1

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North   Kezek   17			1	0.68	9.11		P. 45	0.34
Kryl-Orde         17         15         9.88         8.97         9.10         9.13         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.21         9.37         9.10 <t< td=""><td></td><td></td><td>1</td><td>8.08</td><td>9.88</td><td></td><td>0.15</td><td>0.26</td></t<>			1	8.08	9.88		0.15	0.26
	Kzyl-Orda	17	[ ]5	8.98	8.97	0,10	9.13	0.25
	Zhezkazgan			9.89		0.16		
Subiotal	Taldykorgan						0.02	
East Europe 17 21 8.98 3.11 3.79 4.77 7.12 Centrel naie 17 22 8.98 9.11 3.79 4.77 7.12 Centrel naie 17 22 8.98 9.89 9.19 8.12 0.19 Centrel naie 17 24 8.88 8.89 9.99 0.19 0.13 0.28 19002016 17 24 8.88 8.89 9.99 0.19 0.13 0.28 19002016 17 26 8.91 9.99 1.99 1.98 2.2 8.92 1902 1902 1902 17 26 8.91 9.91 9.91 9.82 9.92 1.92 1.92 1902 1902 1902 17 26 8.91 9.91 9.91 1.89 1.82 1.92 1.92 1.92 1.92 1.92 1.92 1.92 1.9	Subtotal			28,48	25.28	30.51	37.81	55.28
Centrel Asia	Russia		2.8	0.48	9.48.	ŏ.ĕš.		}
Chine			···\$\}-	0.08 0.00	3.)] R. 87			
	China	17	23			0.10	8.13	0.28
	Nongol i s	17	24		8.00	0.00	9.99	0.00
dest Europe         17         28         8.12         9.13         9.15         8.17         9.29           North America         17         29         0.82         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.00					9.01.		9.82.	0.02
dest Europe         17         28         8.12         9.13         9.15         8.17         9.29           North America         17         29         0.82         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.02         0.00							8.02	8.82
Others	West Europe		28	8.12	8.13	8.15	8.17	0.21
Others	North America			0.82	8.02	6.85		0.03
Subtote								0.08
Subtote								
				8.68	4.85	4.97	6.32	9.62
	Total			21.08	29,33	35.48	44.13	64.82
								4
	Almaty	18	11	29.49	33.48	41.89	50,70	74.42
Cereagende         18         4         0.00         0.94         1.22         1.65         2.88           Custaney         18         5         6.06         6.78         8.58         18.95         17.95           Lyreu         18         6         54.67         6.43         75.81         93.54         139.84           Lest Kezak         18         1         51.59         56.38         66.98         79.23         108.31           Couth Kezek         18         8         5.96         6.70         8.39         18.71         16.81           Jambul         18         8         0.00         0.51         0.70         0.99         1.74           Jembul         18         11         0.00         0.51         0.70         0.99         1.74           Semigalation         18         11         0.00         5.25         6.53         8.13         12.32           Cockchelsu         18         12         0.24         17.75         21.62         26.21         97.51           Saviodac         18         14         0.00         0.30         0.47         0.63         1.11           Cayl         18         14	West Kasak.		ş	13.77	15.90	28.22	26,33	42.81
Custanay         18         5         6.06         6.78         3.50         18.95         17.35           Riyrau         18         6         54.67         3         75.81         93.54         139.84           cest Kezak         18         7         51.59         56.38         66.98         79.23         108.91           South Kezek         18         8         5.96         6.70         8.39         10.71         16.81           Chambul         18         9         0.08         9.38         0.50         0.69         1.23           Itanola         18         10         0.08         0.51         0.70         0.99         1.74           Semiçaletin         18         11         0.08         5.25         6.53         8.13         1.23           Cokcheteu         18         12         16.24         17.75         21.62         26.21         37.76           Paviçder         18         13         0.09         24.65         30.29         37.51         55.88           North Kezak         18         14         0.08         0.36         0.47         0.63         1.11           Cyyl-Orda         18         15		18		8.92	9.19	11.59		24.22
Set Kezek				6.86	6.78	8.58		
Set Kezek	Alyrau	18	6	54.67	61 43	75.81	93.54	139.84
Phambul         18         9         0.00         8.38         0.50         0.69         1.23           Akmola         18         19         0.00         0.51         0.70         0.99         1.74           Semigalatin         18         11         0.00         5.25         6.53         8.13         1.292           Cockchelau         18         12         16.24         17.75         21.62         26.21         37.76           Ceylodar         18         14         0.00         0.36         0.47         8.63         1.11           Ceyl-Orda         18         15         0.00         0.00         0.33         0.47         8.63         1.11           Ceyl-Orda         18         16         0.00         0.33         0.43         0.58         1.03           Cryl-Orda         18         16         0.00         0.33         0.43         0.58         1.03           Cryl-Orda         18         16         0.00         0.33         0.43         0.58         1.03           Inregal         18         16         0.00         0.03         0.00         0.00         0.00           Subtotal         18	East Kezak.			51.59	56.38	66.98		
Semigalatin. 18   11   2,00   5,25   6,53   8,13   12,32   Cokchelau   18   12   16,24   17,75   21,62   26,21   37,76   24   19   16   24   17,75   21,62   26,21   37,76   24   19   16   24   17,75   21,62   26,21   37,76   24   19   16   24   17,75   31,62   26,21   37,76   24   19   19   19   19   19   19   19   1	South Kazak.			5.96	6.70	8.39	9 69	
Semigalatin. 18   11   2,00   5,25   6,53   8,13   12,32   Cokchelau   18   12   16,24   17,75   21,62   26,21   37,76   24   19   16   24   17,75   21,62   26,21   37,76   24   19   16   24   17,75   21,62   26,21   37,76   24   19   16   24   17,75   31,62   26,21   37,76   24   19   19   19   19   19   19   19   1	Akmola		18	8.08	8.51	0.76	0.99	
Cokehetau         18         12         16.24         17.75         21.62         26.21         37.76           Peviodar         18         13         0.08         24.65         30.29         37.51         55.88           North Kezak         18         14         8.08         0.36         0.47         0.63         1.11           Cyyl-Orda         18         15         0.08         0.71         0.95         1.28         2.30           Pozkazgan         18         16         0.08         0.71         0.95         1.28         2.30           Pozkazgan         18         16         0.08         0.10         0.13         0.17         0.38           Ivrgai         18         17         0.08         0.10         0.13         0.17         0.38           Isrgiatau         18         18         0.08         0.08         0.09<								
North Kezek         18         14         0.08         0.36         0.47         8.63         1.11           Czyl-Orda         18         15         0.08         0.71         0.95         1.28         2.30           Pozkazgan         18         16         0.98         0.33         0.43         0.58         1.78           Jurgaj         18         17         0.08         0.10         0.13         0.17         0.30           Iangistau         18         18         0.08         0.00         0.00         0.00         0.00           Gidykorgan         18         19         0.08         3.78         4.63         5.73         8.52           Subtotal         185.82         244.61         300.06         370.10         548.03         10.146         161.08           Iusal         18         20         53.40         62.39         78.79         101.46         161.08           Iusal         18         20         53.40         62.39         78.79         101.46         161.08           Iusal         18         20         53.40         62.39         78.79         101.46         161.08           Iusal         20				8,08	5.25	6.53	8.13	12.32
Czyl-Orda         18         15         9.88         9.71         0.95         1.28         2.30           Chozkazgan         18         16         9.98         9.31         0.43         9.58         1.93           furgaj         18         17         0.00         0.13         0.17         2.36           fangistau         18         18         0.03         0.00         0.00         0.00         0.00           faldykorgan         18         19         0.08         3.78         4.63         5.73         8.52           Subtotal         185.80         244.61         300.06         370.10         548.03         3.98         10.00         370.10         548.03         3.98         10.146         161.00         6.31         6.03         7.67         19.95         19.90         6.01         7.67         19.95         19.90         6.01         7.13         8.83         19.87         15.96         6.01         7.13         8.83         19.87         15.96         6.01         1.72         2.51         4.96         8.36         1.00         1.72         2.51         4.9         1.72         2.51         4.9         1.72         1.43         1.68         1.	Kokchetau	18	12	16.24	5.25 17.75	6.53	8.13 26.21	12.32 37.76
Chockezgen         18         16         0.00         0.33         0.43         0.58         1.03           Lurgei         18         17         0.00         0.10         0.13         0.17         0.30           1sengistau         18         18         0.88         0.60         0.0	Kokchatau Pavlodar	18 18	12 13	16.24 0.00	5.25 17.75 24.65	6.53 21.62 30.29	8.13 26.21 37.51	12.32 37.76 55.88
iangistau         18         18         0.08         0.00 <t< td=""><td>Kokchetau</td><td>18 18 18</td><td>12 13 14 15</td><td>16.24 9.99 8.93</td><td>5.25 17.75 24.65 0.36 0.71</td><td>6.53 21.62 30.29 0.47 0.95</td><td>8.13 26.21 37.51 8.63 1.28</td><td>12.32 37.76 55.88 1.11 2.30</td></t<>	Kokchetau	18 18 18	12 13 14 15	16.24 9.99 8.93	5.25 17.75 24.65 0.36 0.71	6.53 21.62 30.29 0.47 0.95	8.13 26.21 37.51 8.63 1.28	12.32 37.76 55.88 1.11 2.30
Subtotal   18	Kokohetau Pavlodar North Kezak. Kzyl-Orda Zhezkazgan	18 18 18 18	12 13 14 15	16.24 9.99 9.99 9.99	5.25 17.75 24.65 0.36 0.71 0.33	6.53 21.62 30.29 0.47 0.95	8:13 26:21 37:51 8:63 1:28 9:58	12.32 97.76 55.88 1.11 2.30
Subtotal         185.88         244.61         300.86         370.16         548.03           Russia         18         20         53.48         62.39         78.73         101.48         161.08           Last Evrogo         18         21         4.68         5.64         7.67         18.85         19.90           Central Asia         18         22         2.48         2.85         3.71         4.96         8.36           China         18         23         6.00         7.13         8.83         19.87         15.96           Longolie         18         24         1.98         1.15         1.40         1.72         2.51           Last Asia         18         25         1.27         1.43         1.68         1.93         2.49           Lestern Asia         18         26         11.99         14.16         17.47         21.05         29.27           Liber Asia         18         26         11.99         1.8         1.47         1.79         2.55           Lest Europe         18         28         12.24         13.66         16.82         18.41         23.78           Lorth America         18         29 <td< td=""><td>Kokohetau Pavlodar North Kezek. Kzyl-Orda Zhezkazgan Turqai</td><td>18 18 18 18</td><td>12 13 14 15 16</td><td>16.24 9.99 9.99 9.99 9.99</td><td>5.25 17.75 24.65 9.36 9.71 0.33</td><td>6.53 21.62 30.29 0.47 0.95 0.43</td><td>8.13 26.21 37.51 8.63 1.28 9.58</td><td>12.32 37.76 55.88 1.11 2.30 1.03</td></td<>	Kokohetau Pavlodar North Kezek. Kzyl-Orda Zhezkazgan Turqai	18 18 18 18	12 13 14 15 16	16.24 9.99 9.99 9.99 9.99	5.25 17.75 24.65 9.36 9.71 0.33	6.53 21.62 30.29 0.47 0.95 0.43	8.13 26.21 37.51 8.63 1.28 9.58	12.32 37.76 55.88 1.11 2.30 1.03
Central Asia 18 22 2.48 2.85 3.71 4.96 8.36 China 18 23 6.90 7.13 8.83 18.87 15.96 10.00016 18 23 6.90 7.13 8.83 18.87 15.96 10.00016 18 24 1.00 1.5 1.40 1.72 2.51 1.40 1.40 1.72 2.51 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.4	Kokchetau Pavlodar North Kezak, Kzyl-Orda Zhozkazgan Turqai Hangiatau	18 18 18 18 18	12 13 14 15 16	16.24 9.99 9.99 9.99 9.99	5.25 17.75 24.65 9.36 9.71 0.33	6.53 21.62 36.29 9.47 9.95 9.43 9.13	8 13 26 21 37 51 8 63 1 28 9 58 9 17	12.32 37.76 55.88 190 293 230
Central Asia 18 22 2.48 2.85 3.71 4.96 8.36 China 18 23 6.90 7.13 8.83 18.87 15.96 10.00016 18 23 6.90 7.13 8.83 18.87 15.96 10.00016 18 24 1.00 1.5 1.40 1.72 2.51 1.40 1.40 1.72 2.51 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.4	Kokohetau Pavlodar North Kazak, Kzyl-Orda Zhozkazgan Turqai Hangiatau Yaldykorgan	18 18 18 18 18 18	12 13 14 15 16 17 18	16.24 0.00 9.00 9.00 0.00 0.00 0.00 185.88	5, 25 17, 75, 24, 65, 0, 36, 0, 71, 0, 33, 0, 10, 0, 00, 3, 78, 244, 61	6,53 21,62 30,29 30,47 0,95 0,43 0,13 0,13 0,09 300,06	8 13 26 21 37 51 8 63 1 28 0 58 0 17 8 90 5 73 370 10	12.32 37.76 55.81 2.39 2.39 8.39 8.52 548.03
1.43	Kokchetau Paylodar North Kezak. Kzyl-Orda Zhozkazgan Turqai Mangistau Taldykorgan Subtotal Russia	18 18 18 18 18 18	12 13 14 15 16 17 18	16.24 9.99 9.88 9.99 9.99 9.88 9.88 185.88	5, 25 17, 75, 24, 65, 0, 36, 0, 71, 0, 33, 0, 10, 0, 00, 3, 78, 244, 61	6,53 21,62 30,29 30,47 0,95 0,43 0,13 0,13 0,09 300,06	8 13 26 21 37 51 8 63 1 28 9 58 0 17 0 00 5 73 376 10	12.32 37.76 55.83 2.30 2.30 0.30 0.60 8.52 548.03
1.43	Kokchetau Pavlodar North Kezak. Kzyl-Orda Zhozkazgan Turqai Hangistau Taldykorgan Subtotal Russia East Europo	18 18 18 18 18 18 18 18 18 18 18 18 18 1	12 13 14 15 16 17 18 19	16.24 9.99 9.99 9.99 9.99 8.88 9.88 185.88	5, 25, 17, 75, 24, 65, 0, 36, 0, 71, 0, 33, 78, 244, 61, 62, 39, 564	6.53 21.62 9.47 9.5 9.43 9.13 9.13 9.13 9.10 4.63 300.86 78.79	8 13 26 21 37 51 8 63 1 28 9 58 0 17 0 00 5 73 376 10 101 48 101 48	12.32 37.76 83 5.11 2.30 -1.93 6.80 8.52 548.03 161.08
1.43	Kokchetau Pavlodar North Kezak, Kzyl-Orda Zhezkazgan Turqai Mangiatau Yaldykorgan Subtotal Rusala East Europe Central Asia	18 18 18 18 18 18 18 18 18 18 18 18 18 1	12 13 14 15 16 17 18 19	16.24 9.00 9.00 9.00 9.00 9.00 9.00 185.80 53.40	5, 25, 17, 75, 24, 65, 0, 36, 0, 71, 0, 33, 78, 244, 61, 62, 39, 564	6,53 21,62 30,29 9,47 9,95 0,43 9,13 9,13 30,06 78,73 7,67	8 13 26 21 37 51 8 63 1 28 0 58 0 17 8 30 5 73 376 10 101 46 10, 85	12.32 37.88 55.1.20 3.03 6.33 6.30 8.62 548.63 161.68 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09
Other Asia     18     27     0.99     1.18     1.47     1.79     2.55       Jest Europe     18     28     12.24     13.66     16.92     18.41     23.78       Jorth America     13     29     1.58     1.70     2.92     2.34     3.09       Jesania, etc.     18     30     0.24     0.27     0.32     0.38     0.58       Offica     18     31     0.03     0.03     0.04     0.05     0.06       Others     18     32     0.61     0.01     0.01     0.01     0.02       Subtotal     95.67     111.61     139.36     175.82     269.39	Kokchetau Paylodar North Kezak. Kezyl-Orda Zhozkazgan Turgai Hangialau Taldykorgan Subtotal Russla East Europo Conical Asia Hongolia	18 18 18 18 18 18 18 18 18 18 18 18 18 1	12 13 14 15 16 17 18 19	16.24 9.96 9.89 9.99 9.99 9.98 9.88 185.88 185.88 185.88	5. 25 17. 75. 24. 65. 8. 36. 9. 71. 0. 33. 9. 10. 9. 80. 3. 78. 244. 61. 62. 39. 5. 64. 2. 13.	6,53 21,62 30,29 30,27 0,95 0,43 0,13 0,13 0,09 7,67 3,71 3,71 3,71 3,71 3,71 3,71 3,71	8 13 26 21 37 51 8 63 1 28 0 17 0 80 5 73 370 10 101 46 10 85 4 96	12.32 37.76 55.01 2.39 2.39 2.39 2.39 2.39 2.39 3.30 3.30 3.30 3.30 3.30 3.30 3.30 3
Jest Europe     18     28     12.24     13.66     16.82     18.41     23.78       Jorth America     13     29     1.58     1.76     2.92     2.34     3.09       Jesania, etc.     18     30     0.24     8.27     0.32     8.38     0.59       Jirica     18     31     0.03     0.03     0.04     8.05     0.05       Jthers     18     32     0.61     6.01     0.81     0.01     0.02       Subtotal     95.67     111.61     139.36     175.82     269.39	Kokchetau Paylodar North Kezak. Keyl-Orda Zhozkazgan Turqai Hangiatau Taldykorgan Subtotal Rusala East Europo Central Asia China Hongolia East Rala	18 18 18 18 18 18 18 18 18 18 18 18 18 1	12 13 14 15 16 17 18 19	16.24 9.99 9.99 9.99 9.99 9.99 185,88 185,88 185,48 1.69 1.77	5 25 17 75 24 65 0 36 0 71 0 33 0 10 0 00 3 78 244 61 62 39 5 64 2 85 1 15	6,53 21,62 30,29 30,27 0,95 0,43 0,13 0,13 0,09 7,67 3,71 3,71 3,71 3,71 3,71 3,71 3,71	8 13 26 21 37 51 8 63 1 28 9 58 9 17 8 90 5 73 370 10 101 46 10, 85 4 96 10, 87 1 , 72 1 , 93	127 - 688 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Kokchetau Paylodar North Kezak. Keyl-Orda Zhozkazgan Turqai Mangiatau Taldykorgan Subtotal Rusala East Europo Central As;a China Hongolia East Asia	18 18 18 18 18 18 18 18 18 18 18 18 18 1	12 13 14 15 16 17 18 19	16.24 9.99 9.99 9.99 9.99 9.99 185,88 185,88 185,48 1.69 1.77	5 25 17 75 24 65 0 36 0 71 0 33 9 19 0 00 3 78 244 61 62 39 5 64 2 85 7 13	6,53 21,62 30,47 0,47 0,95 0,43 0,13 0,00 4,63 300,06 78,73 7,67 3,71 8,83 1,40 1,40 1,47	8 13 26 21 37 51 8 63 1 28 9 17 8 30 5 73 376 10 101 46 10 87 1 72 1 93 21,05	127 5 - 130 5 5 2 5 4 5 5 5 4 5
	Kokchetau Paylodar North Kazak, Kzyl-Orda Zhozkazgan Turqai Mangiatau Yaldykorgan Subtotal Rusala East Europe Central Asia China Mongolia East Asia Western Asia	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	12: 14: 15:6: 17:18: 19:20: 20:20:20: 20:20:	16.24 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.0	5 25 17.75 24.65 8.36 9.71 8.33 9.10 8.00 3.78 244.61 62.39 5.64 7.13 14.16 14.16	6,53 21,62 30,29 0,47 0,95 0,43 0,13 0,13 30,06 78,73 7,67 3,71 8,83 1,40 1,66 1,747	8 13 26 21 37 51 8 63 1 28 0 58 0 17 8 30 5 73 376 10 101 46 10, 85 4 96 10, 87 1 93 21, 25 1 79	12.32 37.88 55.88 1.190 3.093 6.396 8.52 548.93 161.88 161.893 161.893 161.893 29.255 29.255 20.78
Others         18         32         8.61         6.01         9.81         8.01         8.02           Subtotel         95.67         111.61         139.36         175.82         269.39	Kokchetau Paylodar North Kezak Kezyl-Orda Zhozkazgan Turqai Hanqiatau Taldykorgan Subtotal Rusala East Europe Cenical Asia Conical Asia Mongolia East Asia Western Asia Uther Asia North America	@	12: 14: 15:6: 17:18: 19:20: 20:20:20: 20:20:	16.24 9.06 9.06 9.09 9.09 9.09 9.09 185,88 53,48 53,48 53,48 11.99 9.94 11.99 9.94 12.70	5 25 17 75 24 65 0 36 0 71 0 33 0 10 0 00 3 78 244 61 62 39 5 64 2 85 7 13 1 4 16 1 18	6,53 21,62 30,29 30,247 0,95 0,43 0,13 0,13 0,13 4,63 300,06 78,73 7,67 3,71 1,68 17,47 1,68 17,47	8 13 26 21 37 51 8 63 1 28 0 58 0 17 8 30 5 73 376 10 101 46 10, 85 4 96 10, 87 1 93 21, 25 1 79	24
Subtotal 95.67 111.61 139.36 175.82 269.39	Kokchetau Paylodar North Kezak. Kzyl-Orda Zhozkazgan Turqai Hangistau Taldykorgan Subtotal Russia East Europo Central Asia China Hongolia East Asia Western Asia Western Asia Western Asia West Europo North America Oceania	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	12: 13: 14: 15: 16: 17: 18: 19: 20: 12: 20: 20: 20: 20: 20: 20: 20: 20: 20: 2	16.24 9.06	5, 25 17, 75 0, 36 0, 36 0, 71 0, 33 9, 10 0, 00 3, 78 244, 61 62, 39 5, 64 2, 85 7, 13 1, 43 1, 16 1, 18 1,	6,53 21,62 30,47 0,95 0,43 0,13 0,00 4,63 300,06 78,73 7,67 3,71 8,83 1,46 1,47 1,66 1,747 1,692 2,032	8 13 26 21 37 51 8 63 1 28 9 58 9 17 0 10 9 17 0 10 5 73 370 10 101 46 10 85 4 96 10 87 1 93 21 95 1 93 21 95	147 5 4 3 5 5 4 3 5 5 4 5 5 5 5 5 5 5 5 5 5
ots) 281.47 358.21 439.42 545.92 817.41	Kokchetau Paylodar North Kezak. Kezyl-Orda Zhozkazgan Turqai Mangiatau Taldykorgan Subtotal Rusala East Europo Central Asia China Mongolia East Asia Western Asia Uter Asia Western Asia Western Asia Western Asia Other Asia	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2: 13: 1-5: 6: 17: 8: 9: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	6. 24 9. 08 9.	5 25 17.75 24.65 0.36 0.36 0.71 0.00 3.78 244.61 62.39 7.13 1.15 1.43 1.44 1.19 1.3 66 1.70 0.03	6,53 21,62 30,47 0,95 0,43 0,13 0,00 4,63 300,06 78,73 7,67 3,71 8,83 1,46 1,47 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,68 1,747 1,	8 13 26 21 37 51 8 63 1 28 9 17 8 00 5 73 376 10 101 46 101 85 4 96 10 87 1 72 1 93 21 05 1 23 2 4 96	127 - 88
	Kokchetau Paylodar Paylodar Korth Kezak Kezyl-Orda Zhozkazgan Yurgai Hangistau Taldykorgan Subtotal Rusala East Europe Central Asia Cohina Hongolia East Asia Western Asia Western Asia Uther Asia Uther Asia North America Oceania, etc. Africa Others Subtotal	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2: 13: 1-5: 6: 17: 8: 9: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:	16.24 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.0	5 25 17.75 24.65 8.36 9.71 0.33 9.10 9.09 3.78 244.61 62.39 5.64 2.85 7.13 14.16 1.43 14.16 1.70 9.09 9.09	6,53 21,62 30,47 9,95 0,43 0,13 0,03 300,06 78,73 7,67 3,71 8,83 1,40 1,66 1,66 1,47 1,47 1,47 1,47 1,47 1,47 1,47 1,47	8 13 26 21 37 51 8 63 1 28 0 58 0 17 8 80 5 73 378 10 101 48 18 95 18 87 1 72 1 72 1 93 21 85 1 79 1 8 41 2 34 8 8 8 8	12.3.6.8.8.1.1.0.3.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0

Code No.							(Tho	usends)
Taldykorgen		Code	No.	1995	5989	2005	2010	2928
Taldykorgen								
Table   Tabl	Taldykorgan	r1						
Rimety								
Negt   Kesek   19   2   0.00   10.87   13.22   16.42   24.28   Aktyubinak   19   3   0.00   0.20   0.26   0.35   0.59   Keregande   19   4   0.00   0.78   1.11   137   2.38   Kysteney   19   5   0.00   0.35   0.44   0.53   0.99   Atyreu   19   6   0.00   0.65   0.84   1.13   1.96   0.65   0.84   1.13   1.96   0.65   0.84   1.13   1.96   0.65   0.84   1.17   2.03   0.65   0.84   1.17   2.03   0.65   0.84   1.17   2.03   0.65   0.84   1.17   2.03   0.65   0.84   1.17   2.03   0.65   0.84   1.17   2.03   0.65   0.84   1.17   2.03   0.65   0.85   1.17   2.03   0.65   0.85   1.17   2.03   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65   0.85   1.17   2.09   0.65			i			18.04	24,18	41.11
Rkiyubinak	West Kasak.	19 (	2	0.00	10.87	13.22	18,42	24.28
Kustanay         19         5         0.00         0.35         0,44         8,53         8,99           Atyrau         19         6         0.00         3.20         3.92         4.86         7.24           Eest Kazak         19         7         0.00         0.65         0.84         1.17         2.03           Sept Kazak         19         8         0.00         0.63         0.87         1.17         2.03           Zhambul         19         9         0.00         0.65         0.85         1.17         2.09           Akmola         19         10         0.00         0.65         0.85         1.17         2.09           Akmola         19         10         0.00         0.63         0.12         0.17         0.31           Semipalatin         19         11         0.00         0.45         0.59         8.79         1.33           Kokchetetou         19         13         0.00         0.35         0.40         0.55         0.99           North Kazak         19         13         0.00         0.35         0.40         0.55         0.99           North Kazak         19         13         0.0		19		0.00		0.26	8.35	0.59
Kustanay         19         5         0.00         0.35         0,44         8,53         8,99           Atyrau         19         6         0.00         3.20         3.92         4.86         7.24           Eest Kazak         19         7         0.00         0.65         0.84         1.17         2.03           Sept Kazak         19         8         0.00         0.63         0.87         1.17         2.03           Zhambul         19         9         0.00         0.65         0.85         1.17         2.09           Akmola         19         10         0.00         0.65         0.85         1.17         2.09           Akmola         19         10         0.00         0.63         0.12         0.17         0.31           Semipalatin         19         11         0.00         0.45         0.59         8.79         1.33           Kokchetetou         19         13         0.00         0.35         0.40         0.55         0.99           North Kazak         19         13         0.00         0.35         0.40         0.55         0.99           North Kazak         19         13         0.0		19	4	0.00	0.78	1.81	1.37	2.38
Eest Kazak         19         7         0.00         0.65         0.84         1.13         1.96           Soyth Kazak         19         8         0.00         0.68         0.87         1.17         2.03           Zhanbul         19         8         0.00         0.65         0.85         1.17         2.03           Akacia         19         10         0.00         0.65         0.85         1.17         2.03           Akacia         19         11         0.00         0.45         0.59         8.79         1.39           Kokchetau         19         11         0.00         0.45         0.59         8.79         1.39           Kokchetau         19         13         0.00         0.35         0.40         0.55         0.99           Morth Kazak         19         13         0.00         0.35         0.40         0.55         0.99           Morth Kazak         19         15         0.00         0.35         0.45         0.60         0.55         0.99           Morth Kazak         19         15         0.00         0.36         0.45         0.45         0.60         0.37           Zhazkazgan		19.[	5	0.00	8.35	0,44	9,59	[B.\$9]
Soyth Kazek         19         8         0.00         0.68         0.87         1.17         2.03           Zhambul         19         9         0.00         0.65         0.85         1.17         2.09           Akmola         19         10         0.00         0.65         0.85         1.17         2.09           Akmola         19         11         0.00         0.45         0.59         8.79         1.39           Kokchetou         19         12         0.00         0.33         0.40         0.55         0.99           Paylodar         19         13         0.00         0.38         0.40         0.55         0.99           North Kazek         19         13         0.00         0.35         0.45         0.66         1.92           Kzyl-Orda         19         15         0.00         0.35         0.45         0.66         1.92           Zhezkazgan         19         16         0.00         0.14         0.05         0.37           Zhezkazgan         19         16         0.00         0.00         0.01         0.01         0.03           Yurgei         19         17         0.00         0.01		19 [		0.00	3.28	3,92		7.24
Soyth Kazek         19         8         0.00         0.68         0.87         1.17         2.03           Zhambul         19         9         0.00         0.65         0.85         1.17         2.09           Akmola         19         10         0.00         0.65         0.85         1.17         2.09           Akmola         19         11         0.00         0.45         0.59         8.79         1.39           Kokchetou         19         12         0.00         0.33         0.40         0.55         0.99           Paylodar         19         13         0.00         0.38         0.40         0.55         0.99           North Kazek         19         13         0.00         0.35         0.45         0.66         1.92           Kzyl-Orda         19         15         0.00         0.35         0.45         0.66         1.92           Zhezkazgan         19         16         0.00         0.14         0.05         0.37           Zhezkazgan         19         16         0.00         0.00         0.01         0.01         0.03           Yurgei         19         17         0.00         0.01		19	7	i 0.00 I	0.65	8.84		1.96
Zhambul		19	8	0.00	9.68	0.87	1.17	
Akmola         19         10         0         0         0         0         0         0         0         0         12         0         17         0         31           Semipalatin         19         11         0         00         0         45         0         59         8         79         1         39           Kokcheley         19         12         0         00         0					8.65	8.85	1.17	2.09
Semigatatin         19         11         0.00         0.45         0.59         0.79         1.39           Kokchelov         19         12         0.00         0.03         0.04         0.05         0.09           Paylodar         19         13         0.00         0.35         0.45         0.66         1.92           Morth Kazak         19         14         0.00         0.35         0.45         0.66         1.92           Kzyl-Orda         19         15         0.00         0.10         0.14         0.20         0.37           Zhezkazgan         19         16         0.03         0.44         0.05         0.07         0.13           Turgei         19         17         0.00         0.01         0.01         0.01         0.02         0.03           Hangistau         19         16         0.03         3.78         4.63         5.73         8.52           Taldykorgan         19         19         0.08         8.00         0.08         8.00         0.00         8.00         0.00         8.00         0.00         8.00         0.00         9.00         0.00         9.00         9.00         9.00         9.00		191		0.00		8.12	0.17	0.31
Kokcheteu         19         12         0.00         6.03         0.04         6.05         3.09           Paylodar         19         13         0.00         6.30         0.40         8.55         0.99           North Kezek         19         15         0.00         6.35         0.45         8.60         1.92           Kzyl-Orda         19         15         0.00         6.10         9.14         0.20         0.37           Zhezkazgan         19         16         0.00         6.01         0.01         6.02         0.03           Yurgei         19         17         0.00         6.01         0.01         6.02         0.03           Hangistau         19         16         0.00         3.78         4.63         5.73         8.52           Taldykorgan         19         19         0.00         36.52         45.87         59.43         95.51           Rusala         19         20         0.00         36.52         45.87         59.43         95.51           Rusala         19         20         0.00         24.67         30.24         37.98         57.07           Eest Europe         19         21		19		9,00	8.45	0.59	8,79	lJ39 J
Kzyl-Orda		191	12	0.00	8.03	9.84	8.0\$	i a.ee i
Kzyl-Orda		197	13	0.00	8.38	0.40	0.55	0.99
Kzyl-Orda			14	0.00	8.35	0.45	8.68	1 92
Turgel 19 17 0.00 6.01 0.01 6.02 0.03 Hangislau 19 16 0.00 3.78 4.69 5.73 8.52 Taldykorgan 19 19 0.00 8.00 8.00 8.00 8.00 0.00 Subtotal 0.00 36.52 45.87 59.43 95.51 Russla 19 20 0.00 24.67 30.24 37.98 57.07 East Europe 19 21 0.00 18.37 22.43 28.07 41.82 Central Asia 19 23 0.00 8.12 0.27 8.38 0.68 China 19 24 8.00 3.43 3.99 4.68 6.18 East Asia 19 25 0.00 8.63 0.72 8.81 J.00 Under Asia 19 25 0.00 8.63 0.72 8.81 J.00 Other Asia 19 27 0.00 0.52 0.63 8.75 1.02		19	15	0.00	8.18	9.14	8,28	0.37
Turgel 19 17 0.00 6.01 0.01 6.02 0.03 Hangislau 19 16 0.00 3.78 4.69 5.73 8.52 Taldykorgan 19 19 0.00 8.00 8.00 8.00 8.00 0.00 Subtotal 0.00 36.52 45.87 59.43 95.51 Russla 19 20 0.00 24.67 30.24 37.98 57.07 East Europe 19 21 0.00 18.37 22.43 28.07 41.82 Central Asia 19 23 0.00 8.12 0.27 8.38 0.68 China 19 24 8.00 3.43 3.99 4.68 6.18 East Asia 19 25 0.00 8.63 0.72 8.81 J.00 Under Asia 19 25 0.00 8.63 0.72 8.81 J.00 Other Asia 19 27 0.00 0.52 0.63 8.75 1.02						0.05	8.87	0.13
Mangistau		191	17	0.00	8,81	8.01	8.82	0.03
Teldykorgen	Mangislau		18	8.99	3.78	4.63	5.73	8.52
Subtote    0.00   36.52   45.87   59.43   95.51     Russia			19		8.98	8.08	8.68	0.88
Russia 19 20 0.00 24.67 30.24 37.98 57.07 East Europe 19 21 0.00 18.37 22.43 28.07 41.82 Central Asia 19 23 0.00 9.12 0.17 3.24 0.44 Hongolia 19 24 8.00 3.43 3.99 4.68 6.18 East Asia 19 25 0.00 8.63 0.72 0.81 J.08 Western Asia 19 26 8.08 6.22 7.47 8.85 11.78 Other Asia 19 27 0.00 0.52 0.63 8.75 1.82	Subtotal			8,88				
Eest Europe     19     21     8.08     18.37     22.43     28.07     41.02       Central Asia     19     22     8.00     8.21     6.27     8.38     9.68       China     19     23     8.00     8.12     9.17     9.24     8.44       Hongolia     19     24     8.00     3.43     3.99     4.68     6.18       East Asia     19     25     8.00     9.63     9.72     8.81     1.08       Heatern Asia     19     26     8.00     6.22     7.47     8.85     11.78       Other Asia     19     27     8.00     9.52     8.63     8.75     1.82		19	20	0.00	24.67	30.24		57.07
Central Asia         19         22         0.00         8.21         0.27         0.38         0.68           China         19         23         0.00         8.12         0.17         9.24         0.44           Hongolia         19         24         0.00         3.43         3.99         4.68         6.18           East Asia         19         25         0.00         0.63         0.72         0.81         1.00           Heatern Asia         19         26         0.00         6.22         7.47         8.85         11.78           Other Asia         19         27         0.00         0.52         0.63         0.75         1.02	East Europe	19	21	8.98	18.37	22.43	28.87	
Chine     19     23     0.00     8.12     0.17     8.24     0.44       Hongolie     19     24     0.00     3.43     3.99     4.68     6.18       Eest Asia     19     25     0.00     0.63     0.72     8.81     1.00       Heatern Asia     19     26     0.00     6.22     7.47     8.85     11.78       Other Asia     19     27     0.00     0.52     0.63     8.75     1.02		l <u>19</u> l	22	8.08	8.21	8.27	0.38	0.68
Other Asia		19 (	23	0.00	8.12	0.17	8.24	0.44
Other Asia	Mongolia	19	24	8.89	3.43	3.99	4,68	6.18
Other Asia	East Asia	19	25	0.00	8.63	0.72	0.81	1.08
Other Asia		19	26		6,22	7 47	8.85	11.78
		19	27	8.98	0,52	8.63		1.02
West Europe [ 19 [ 28 [   0.08 ]   5.99 ]   6.84   7.73 [   9.56 ]	West Europe	19	28	8.98	5,99	6.84	7.73	9.56
North Americe 19 29 0.08 0.75 0.86 0.98 1.24			29		0.75	0.86	0.98	1.24
Oceania, etc. 19 30 0.00 0.12 0.14 0.16 6.20	Oceania, etc.		38	0.08	9,12	0.14		8.28
Africa			31	8.00		0.02	0.82	8.03
Others 19 32 6.08 0.00 0.81 6.81 9.01		19	32			8.81		
Subtotal 0.88 61.02 73.78 98.65 131.04	Subtotal		-					
Total 0.80 97.55 119.66 150.08 226.55				8.88	97.55	119.66	150.08	226.55