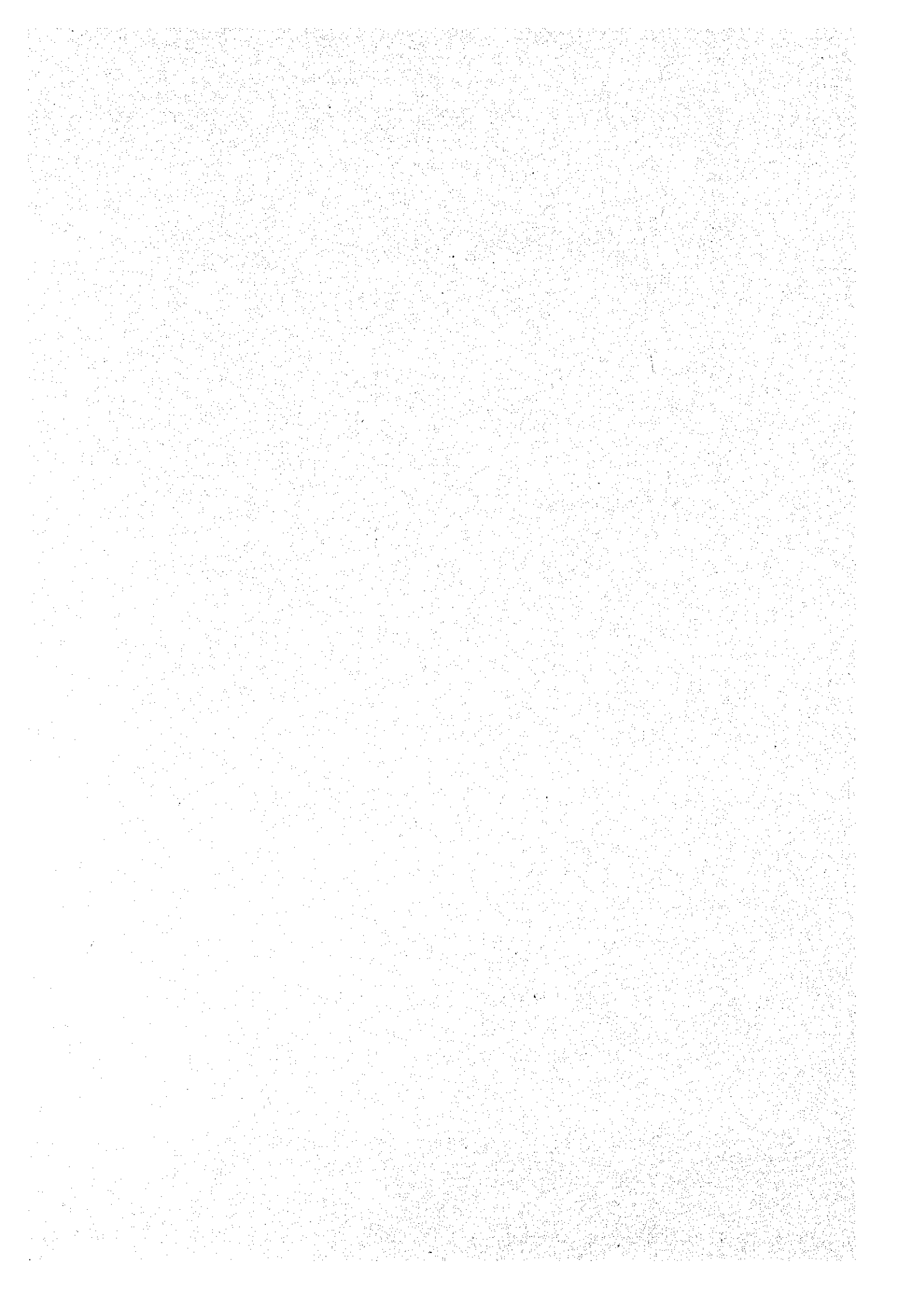
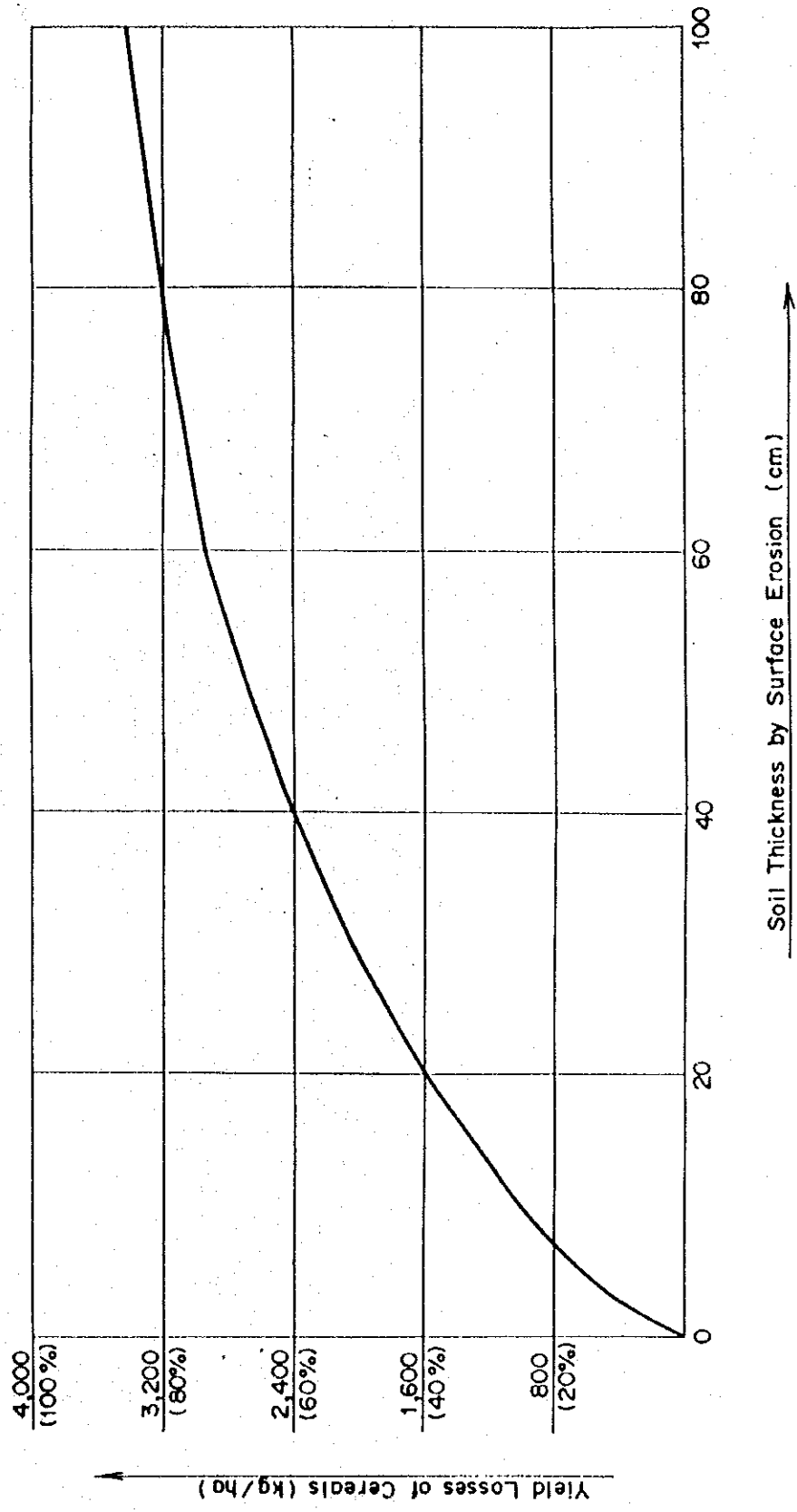


Fig. 3.5.5-A1 Classification of Erosion Control Area





Source : Soil Erosion Prevention and Remediation in Romania by Dr. N . Popescu

Fig. 3.5.6-A1 Correlation Between Yield Losses and Surface Erosion

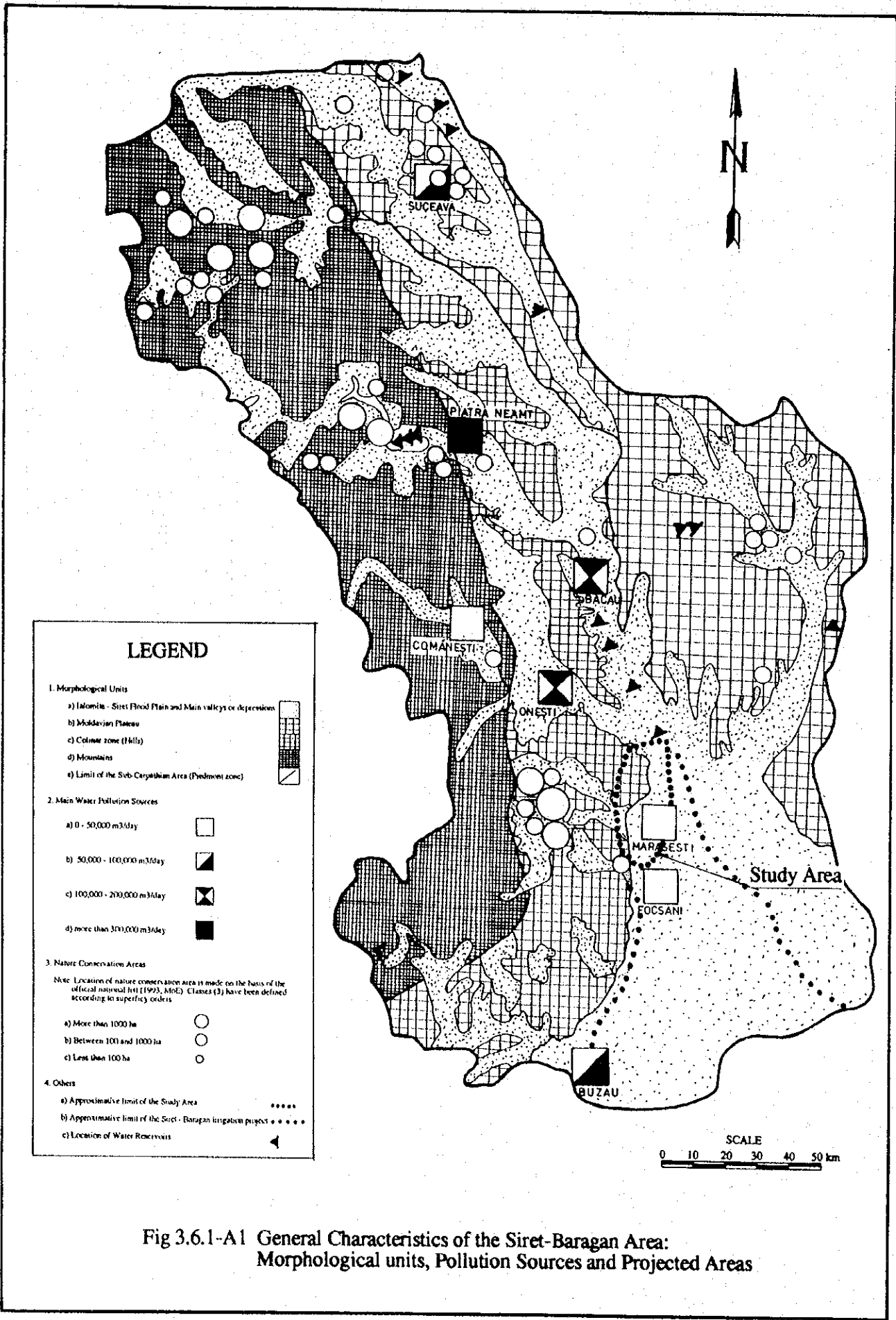
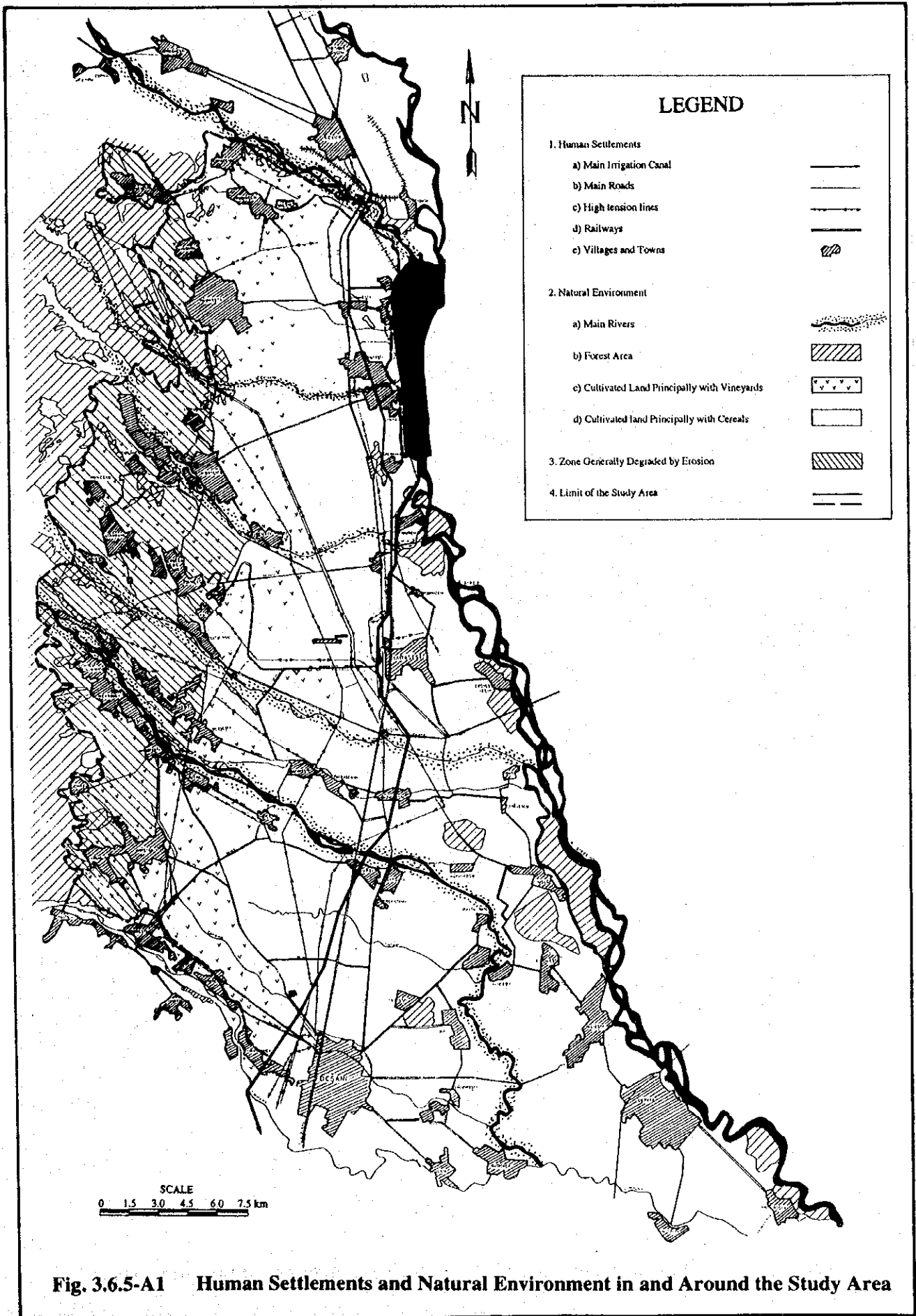
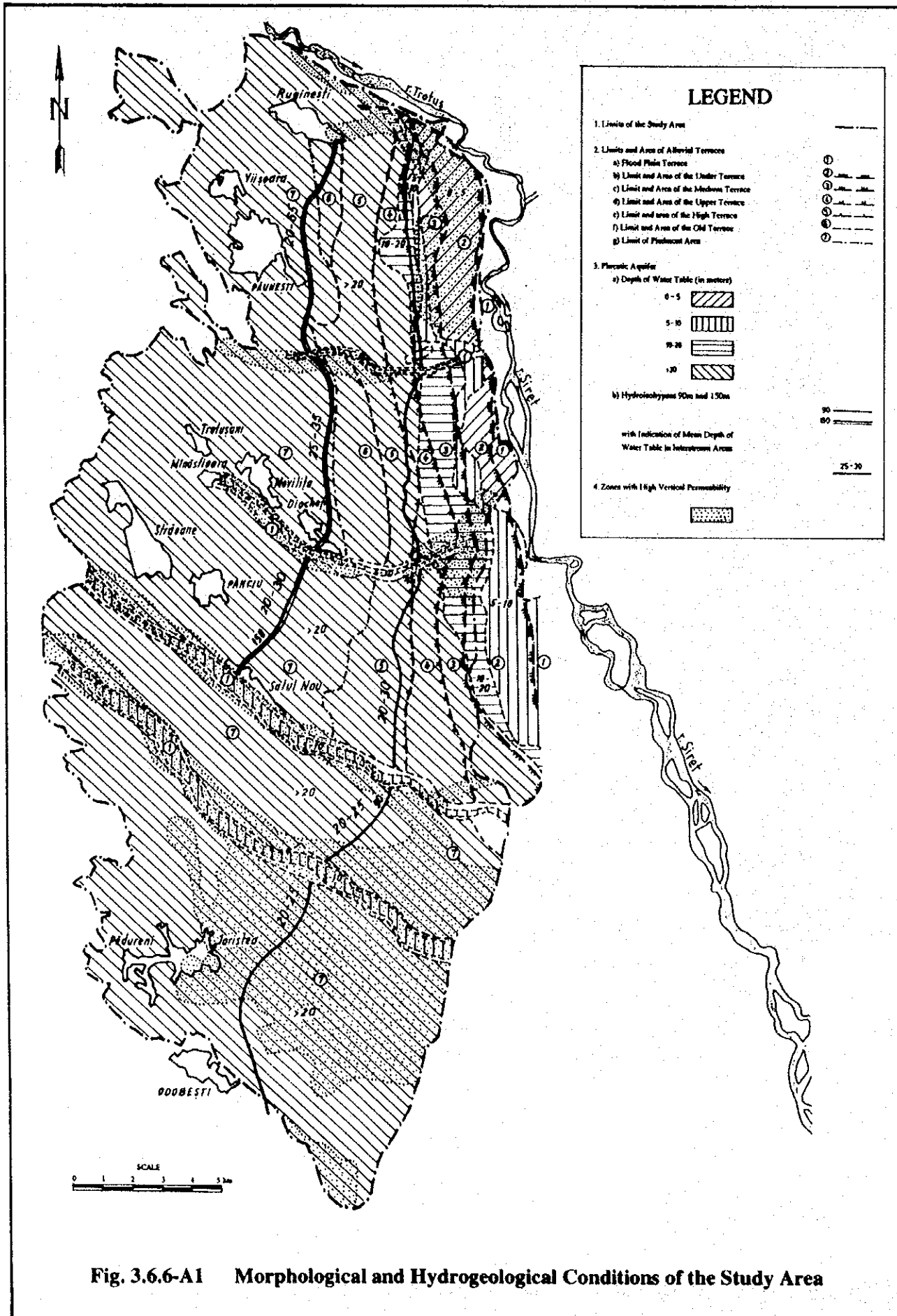


Fig 3.6.1-A1 General Characteristics of the Siret-Baragan Area:
Morphological units, Pollution Sources and Projected Areas





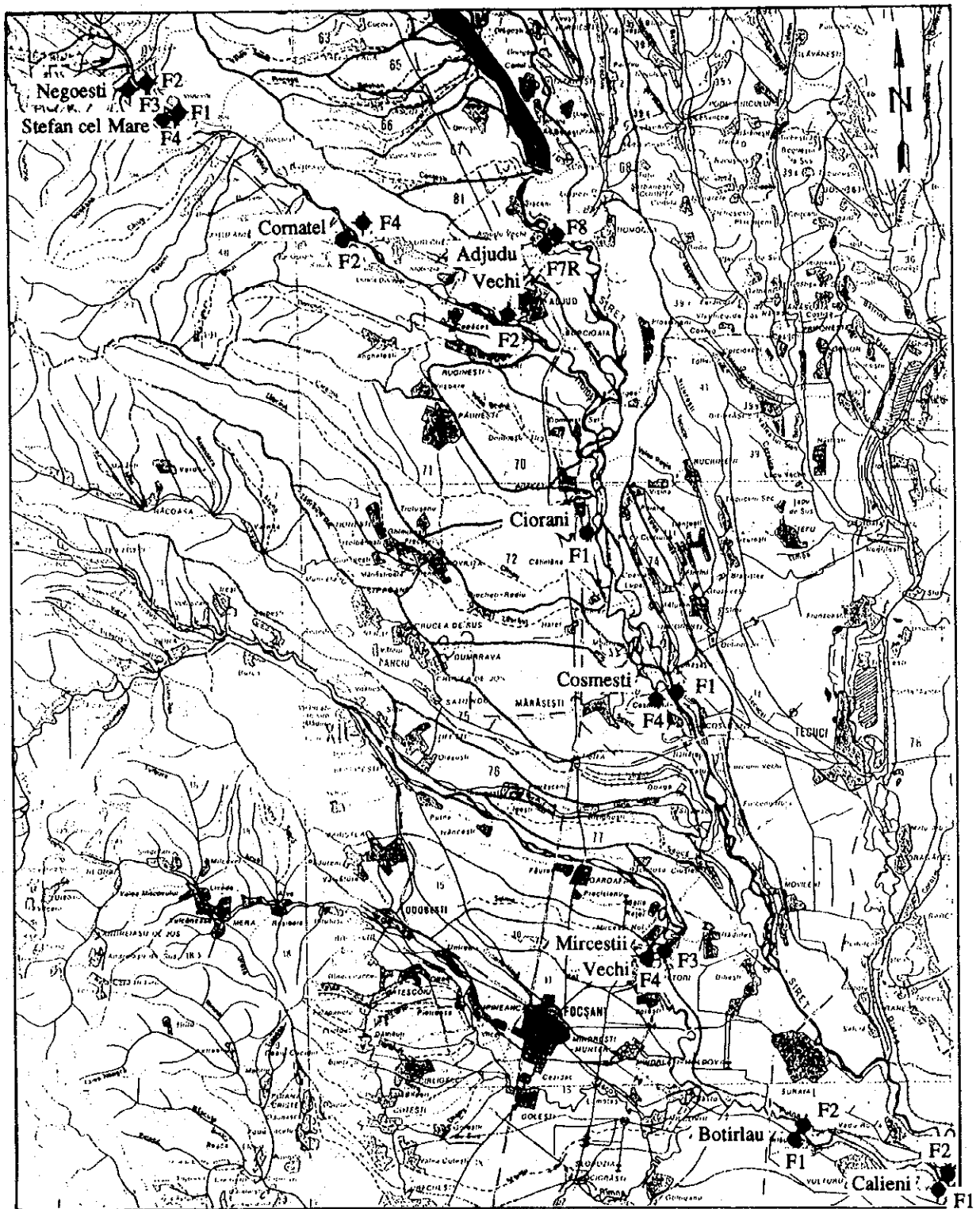


Fig. 3.6.6-A2 Location Map of Groundwater Quality Monitoring Stations

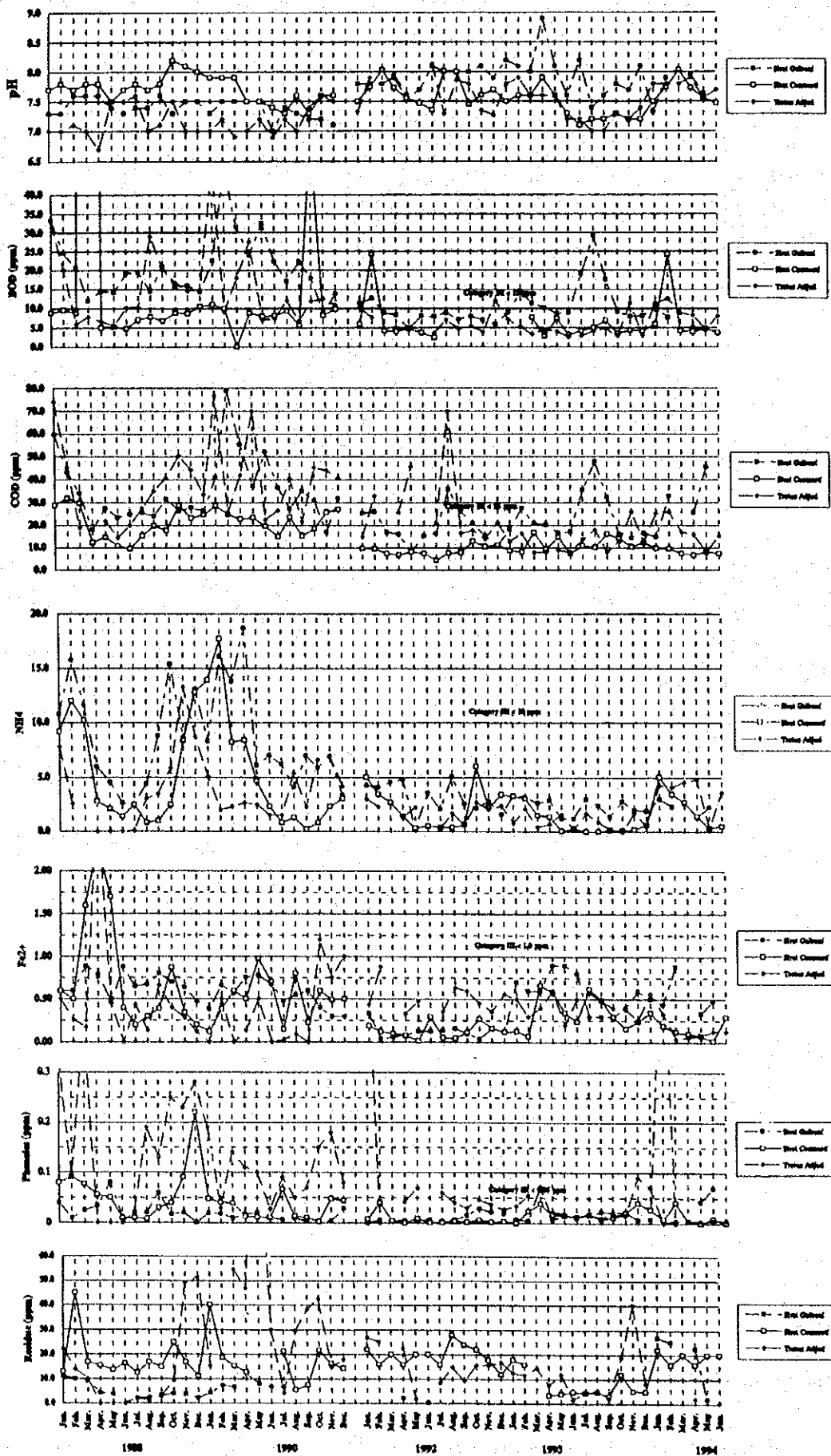
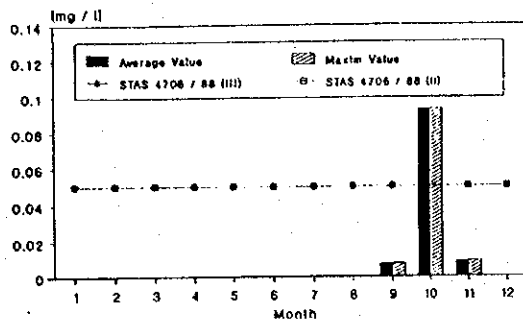
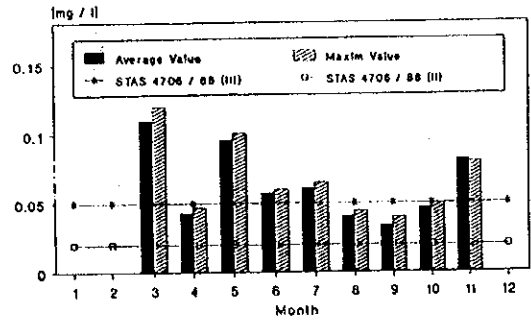


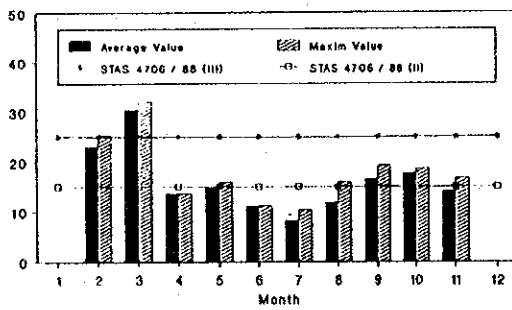
Fig. 3.6.6-A3 River Water Quality (1988-89, 1992-1993)



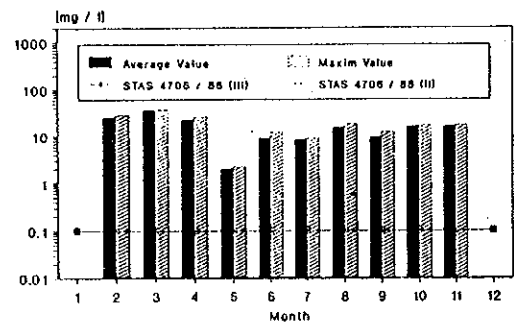
(a) Lead



(b) Phenol



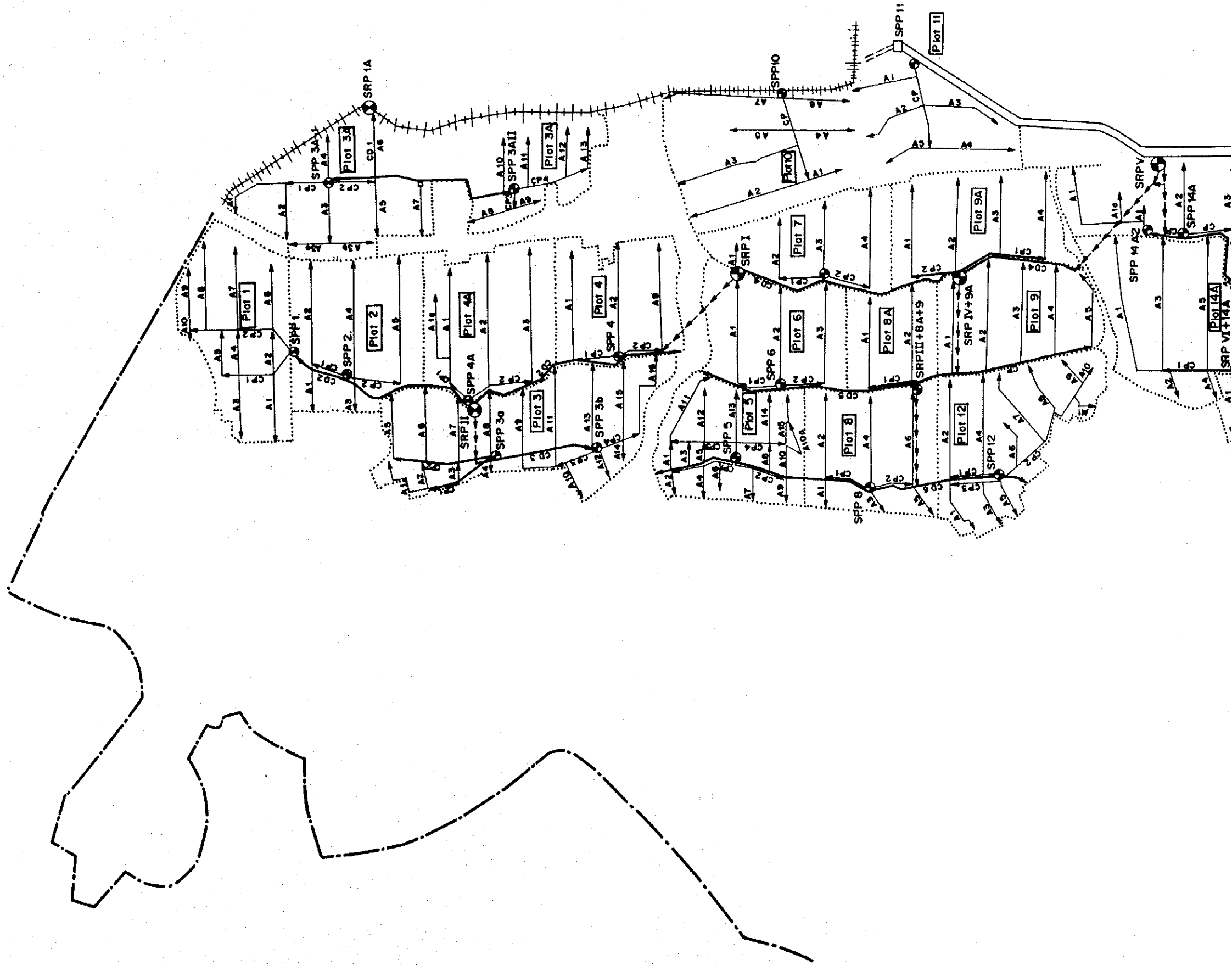
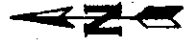
(c) Consumption of O2



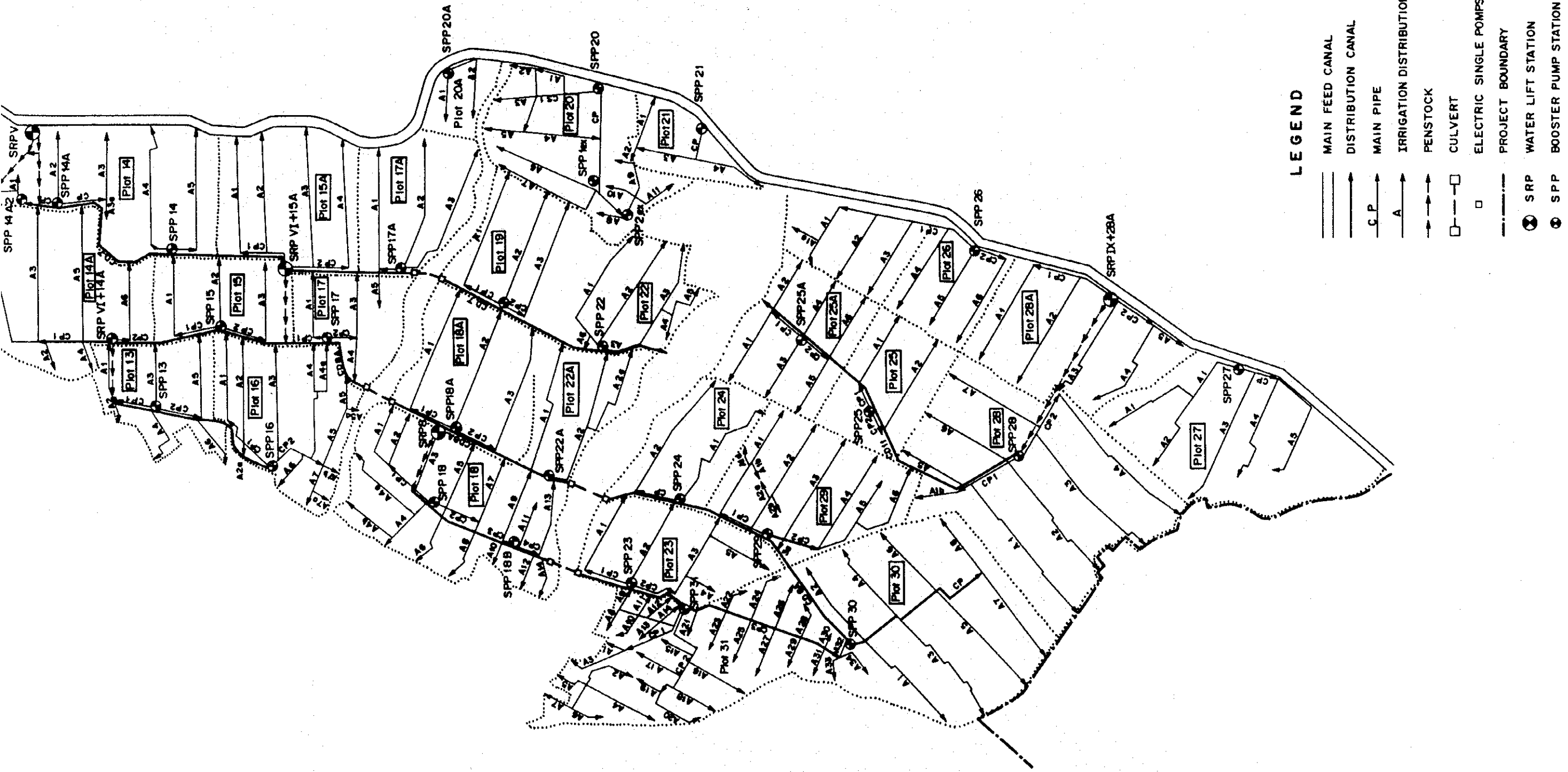
(d) Animal and Vegetal Fat

Note: Collection of samples in point "Adjud city", with the frequency 3/month, in 1992 from February until November (source: Environmental Branch Agency of Vrancea District).

**Fig. 3.6.6-A4 Water Quality Indicators for the Trotus River
(Concentration and Comparison with Standard Criteria)**

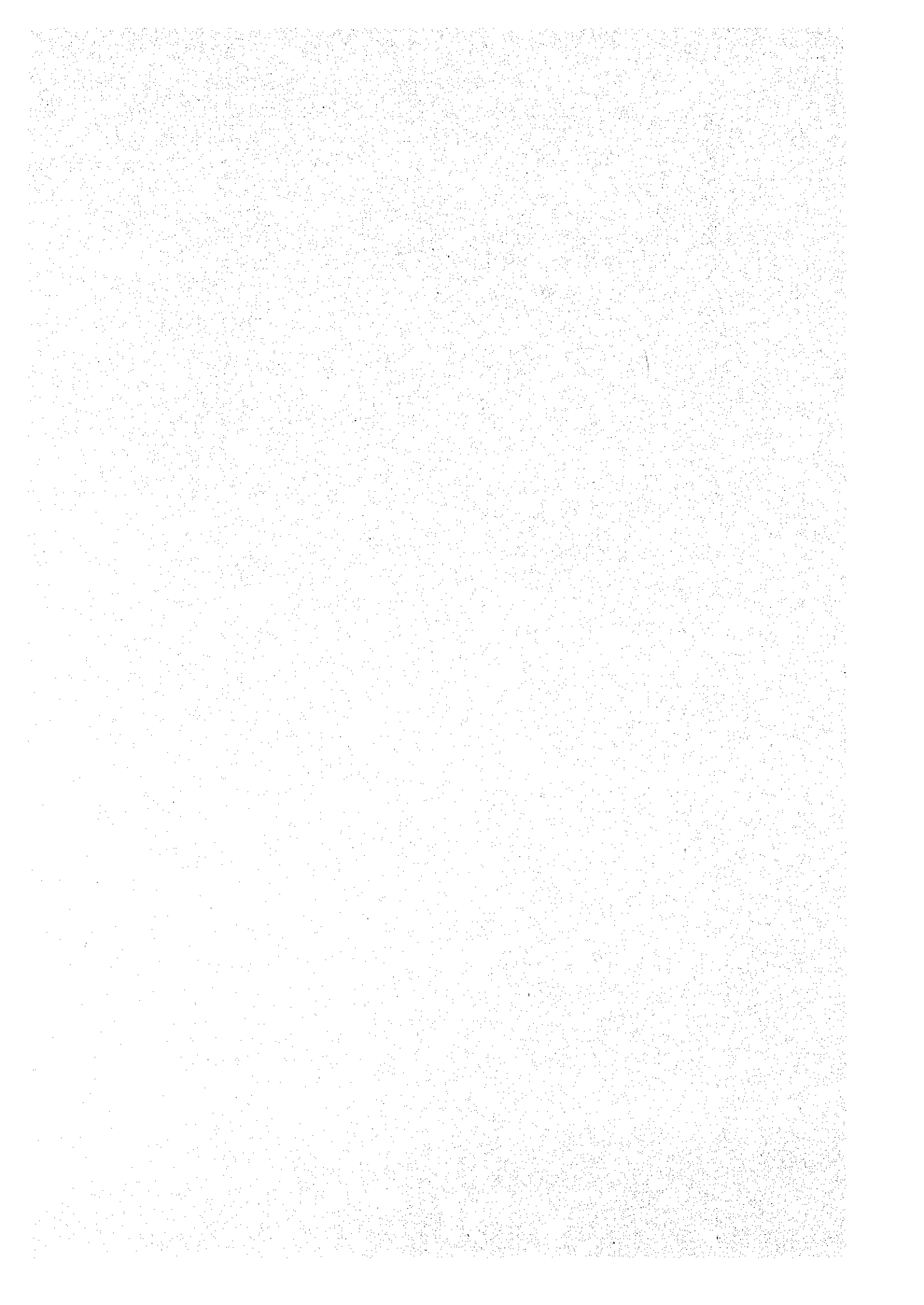






- LEGEND**
- MAIN FEED CANAL
 - DISTRIBUTION CANAL
 - C.P. MAIN PIPE
 - IRRIGATION DISTRIBUTION PIPE
 - PENSTOCK
 - CULVERT
 - ELECTRIC SINGLE PUMPS
 - PROJECT BOUNDARY
 - ⊗ SRP WATER LIFT STATION
 - ⊙ SPP BOOSTER PUMP STATION

Fig 4.2.2-A1 General Plan of Existing Design



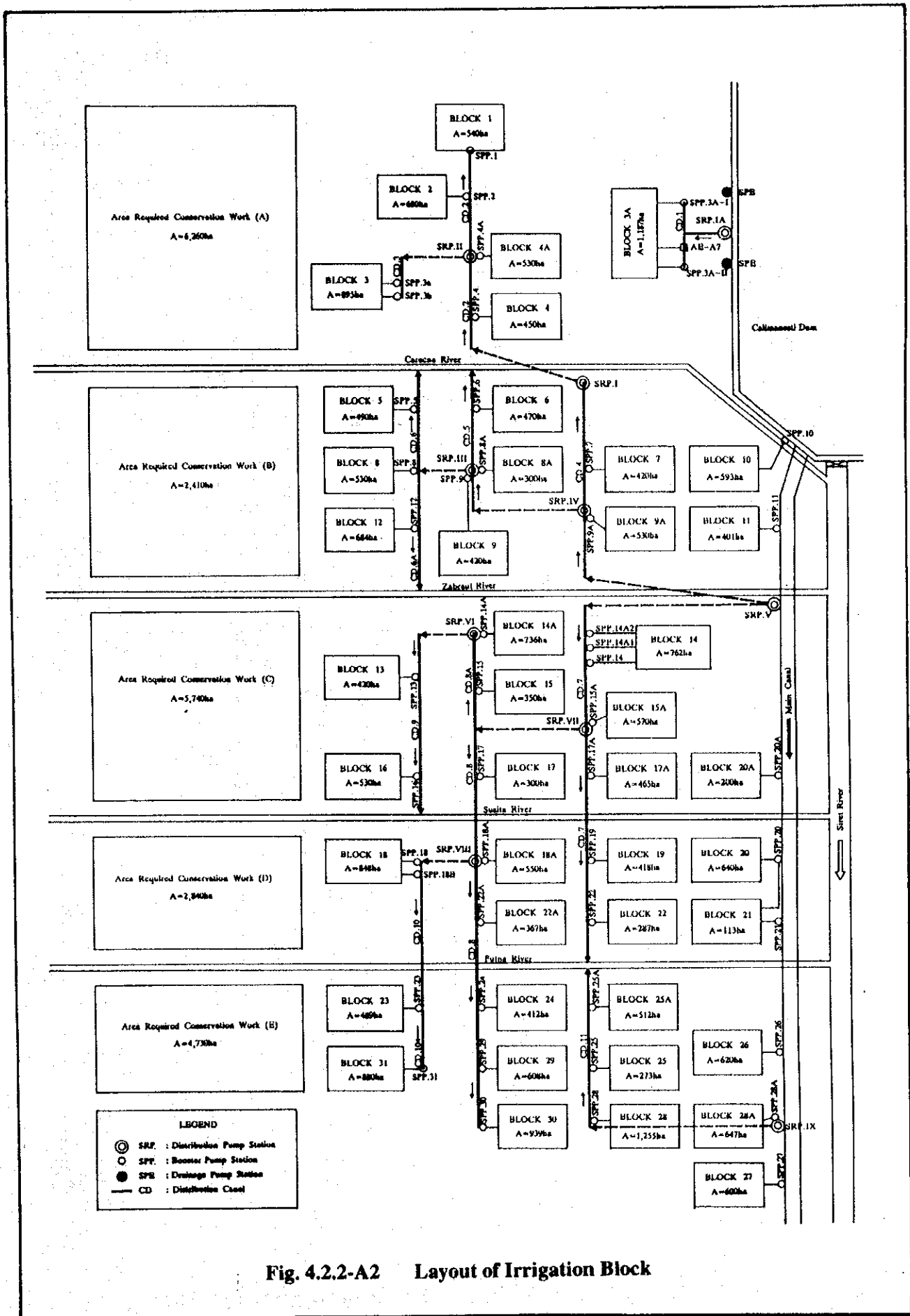


Fig. 4.2.2-A2 Layout of Irrigation Block

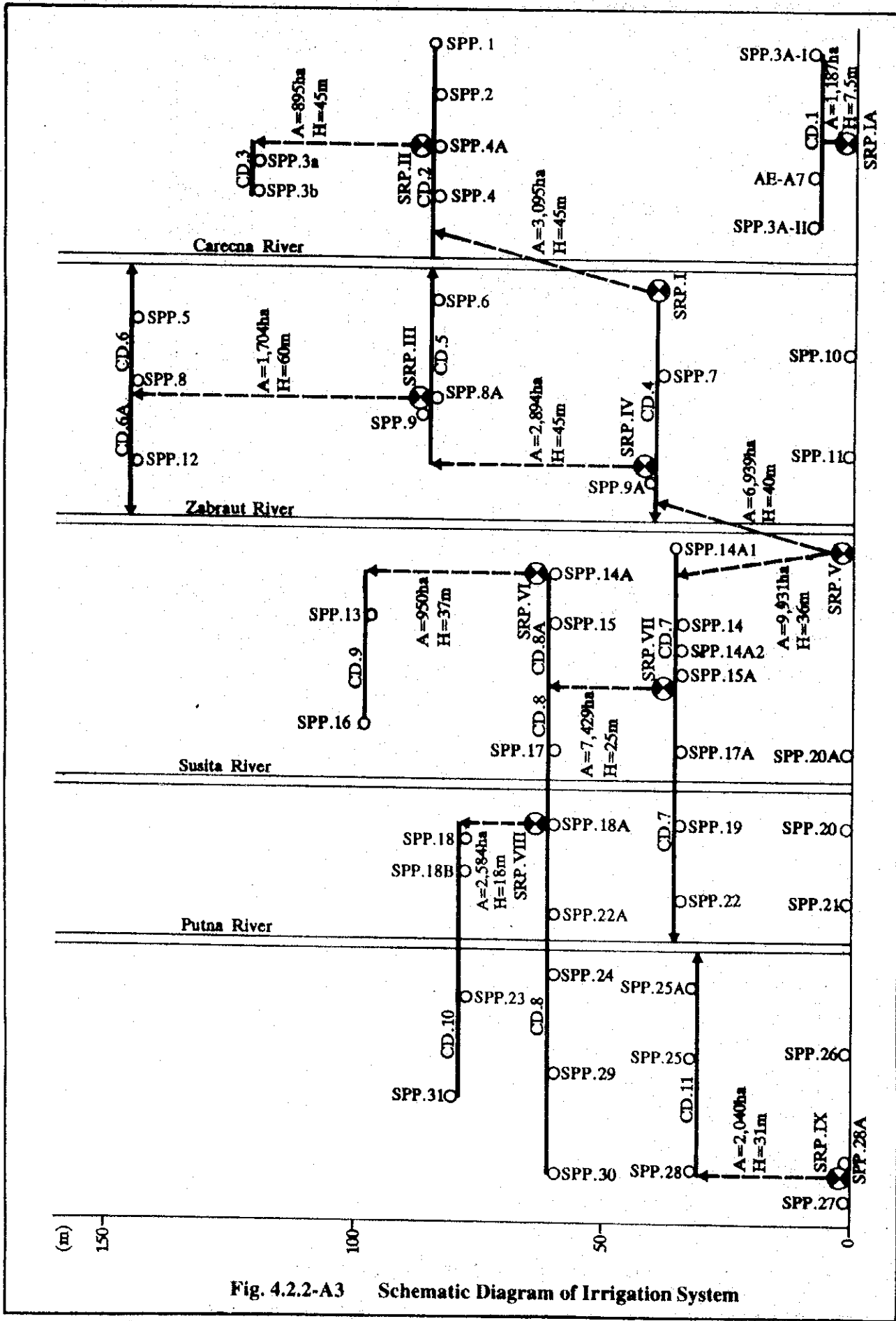


Fig. 4.2.2-A3 Schematic Diagram of Irrigation System

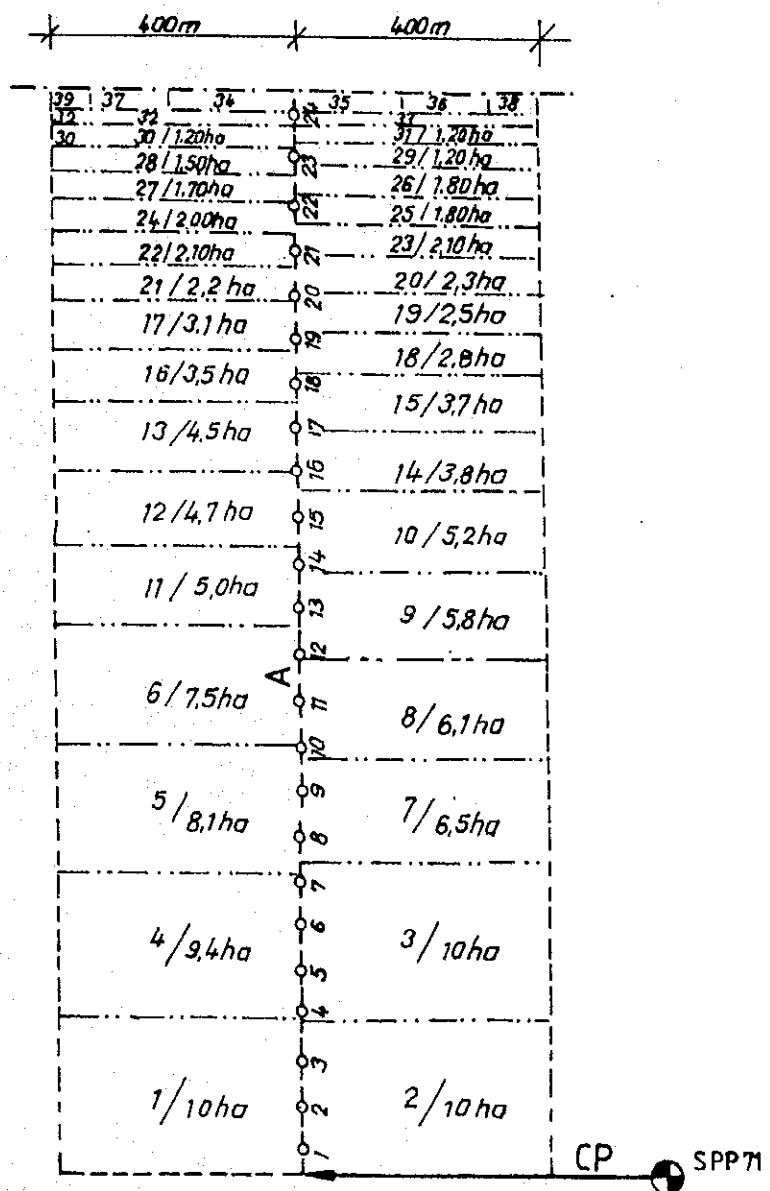


Fig. 4.2.2-A4 Typical Irrigation Block in Romania

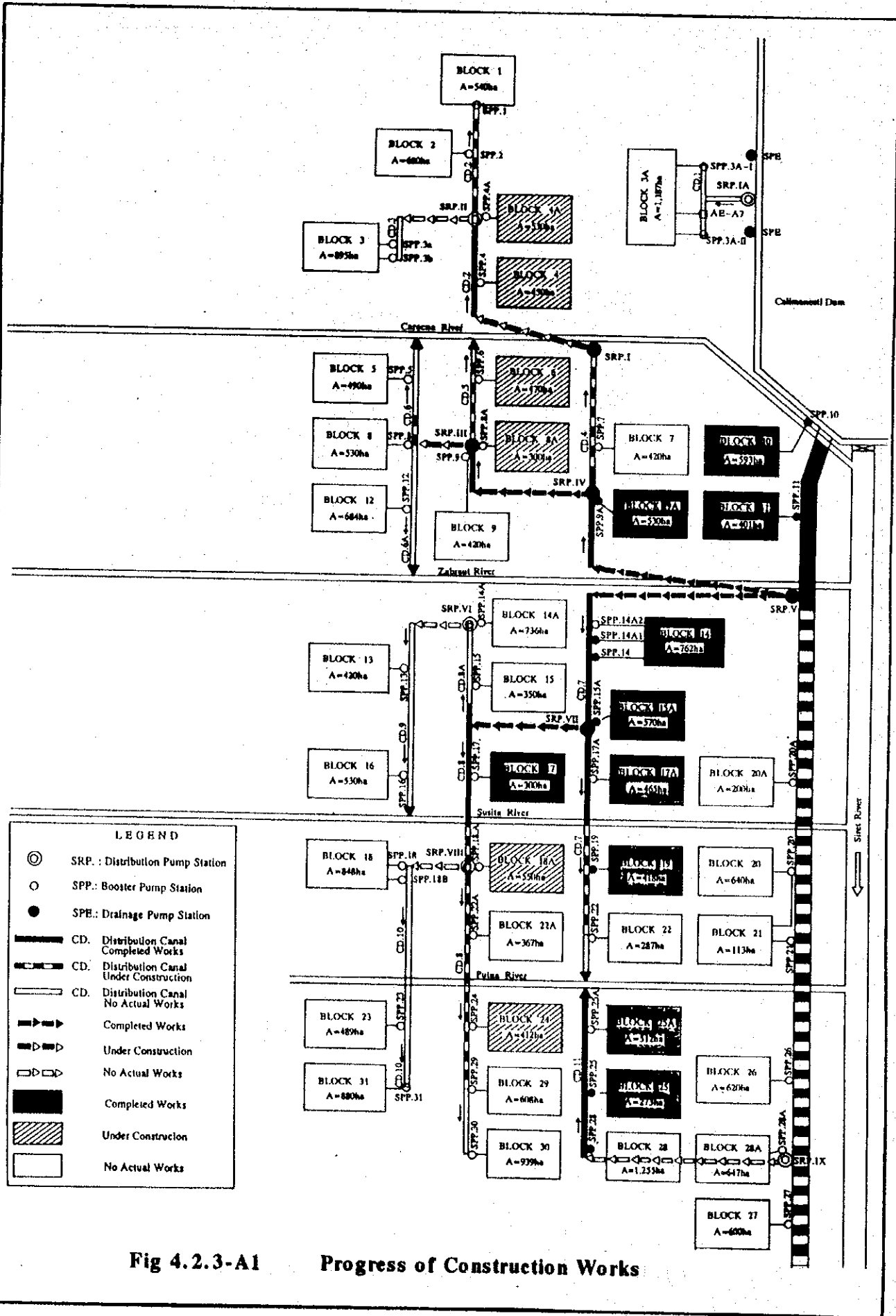
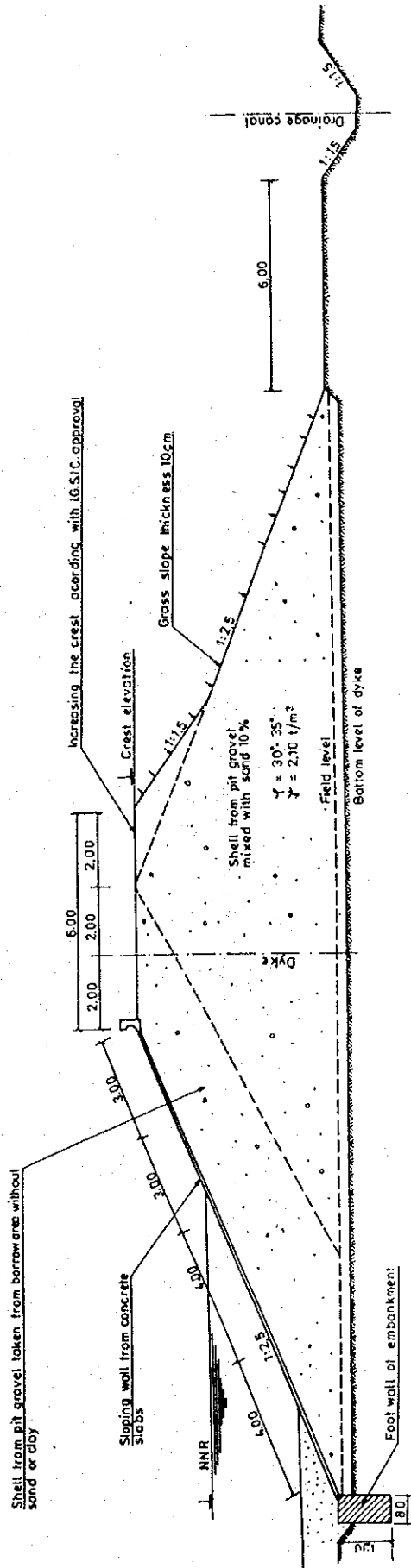


Fig 4.2.3-A1 Progress of Construction Works

CROSS SECTION DYKE (between Cd9 and Cd96)



CROSS SECTION DYKE (between Cd96 and Cd13)

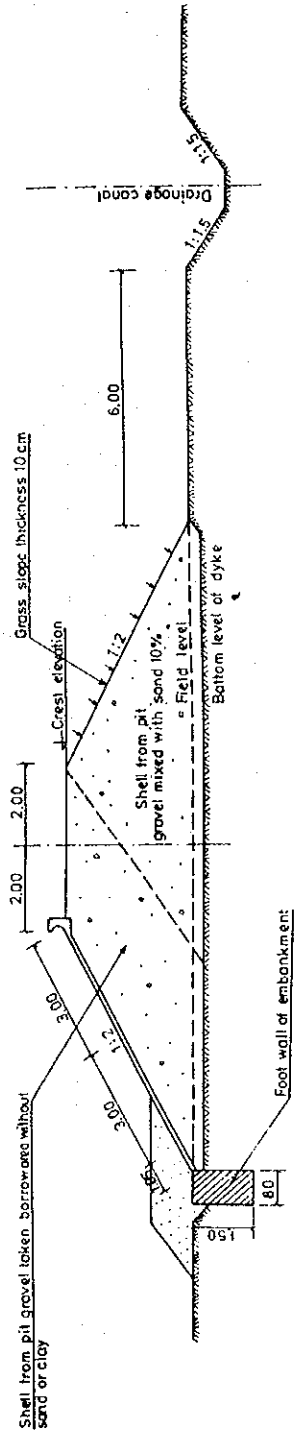


Fig 4.2.3-A2 Typical Section of Calimanesti Dam

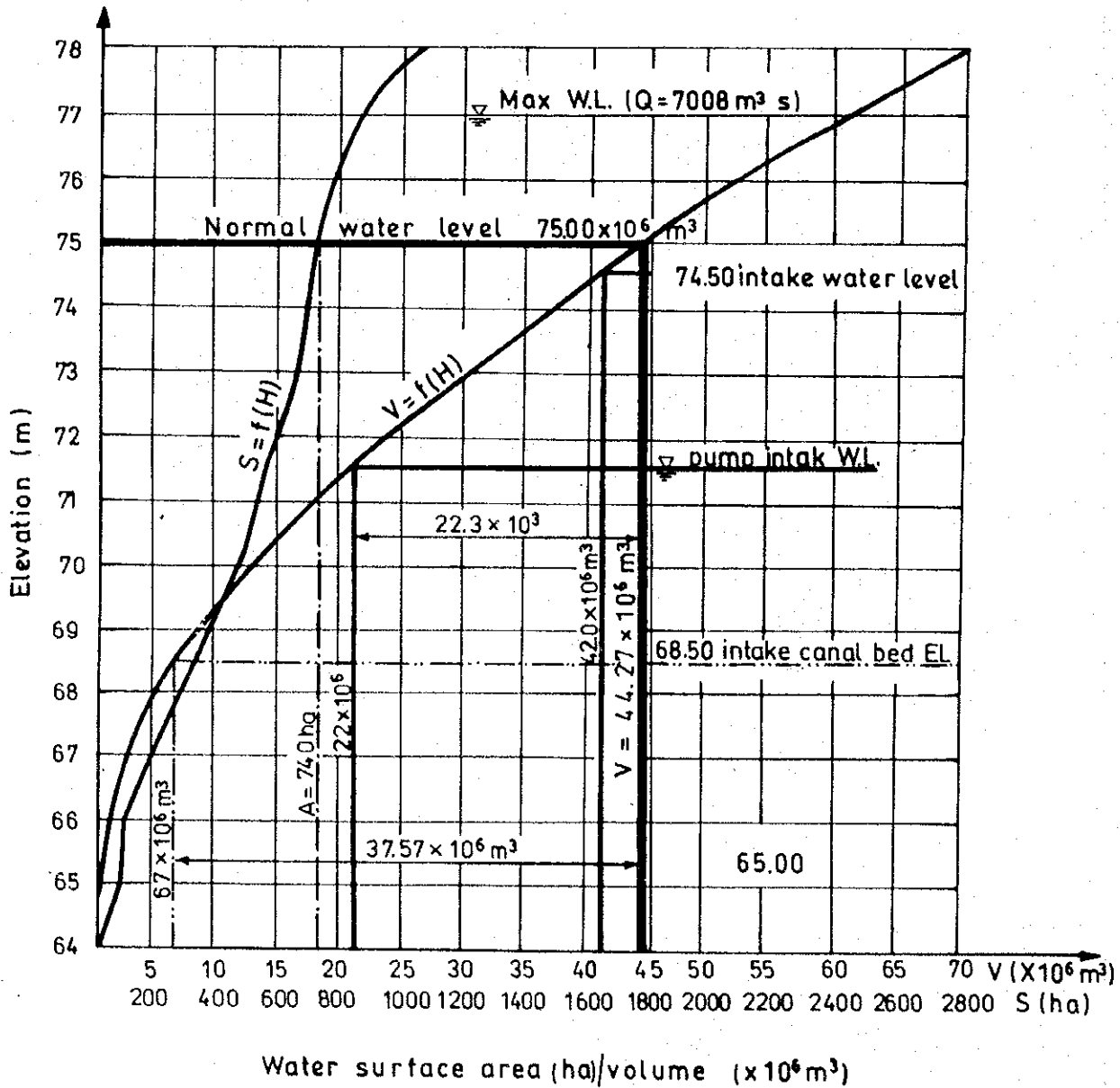


Fig 4.2.3-A3 Calimanesti Dam Reservoir

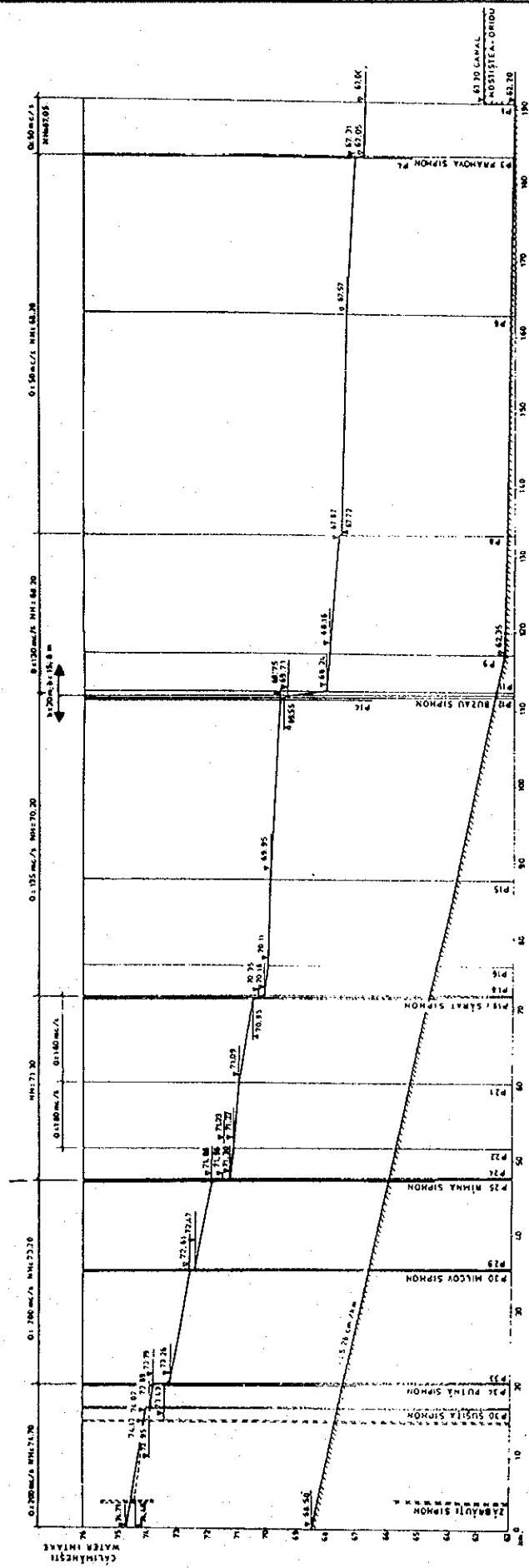
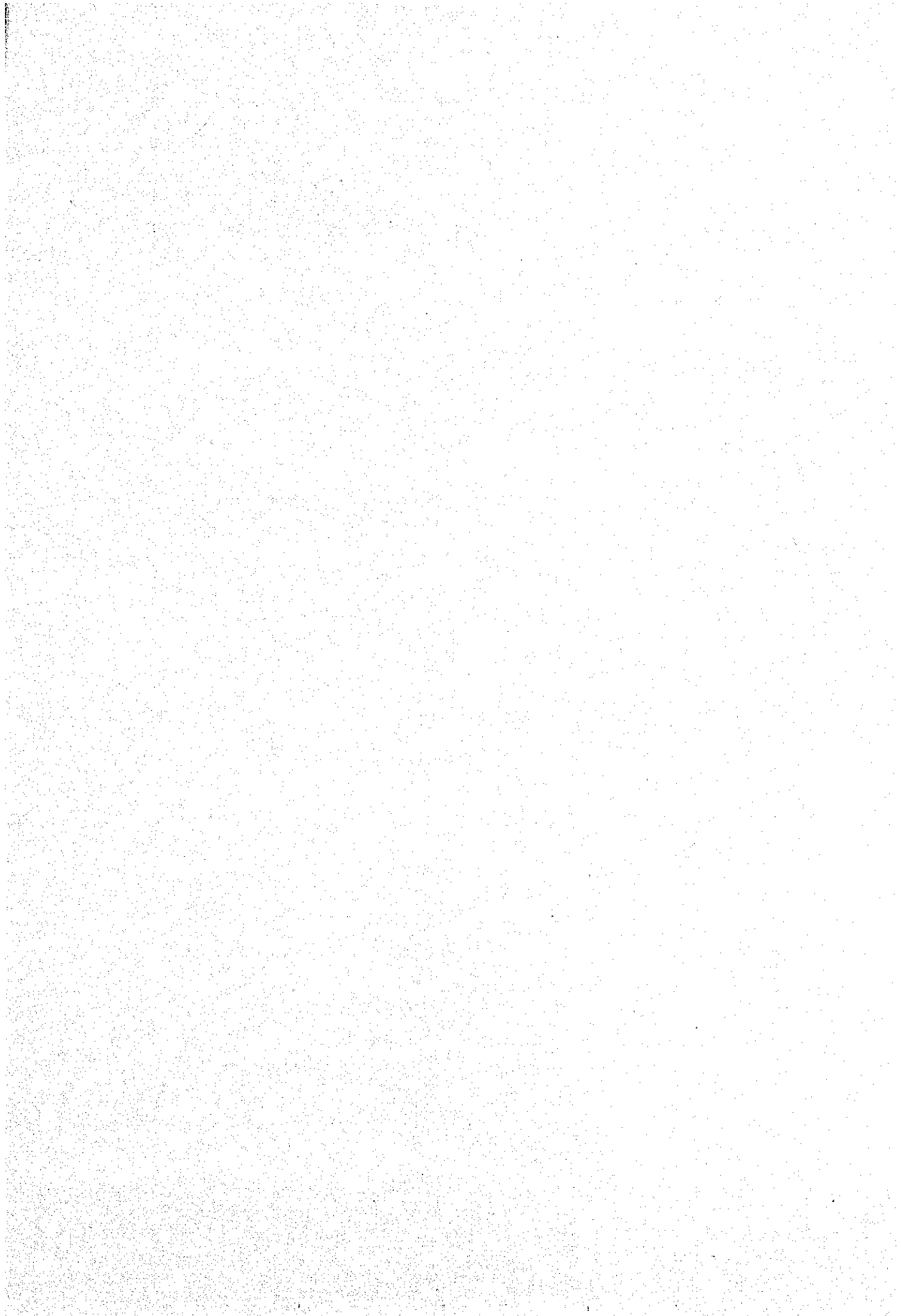
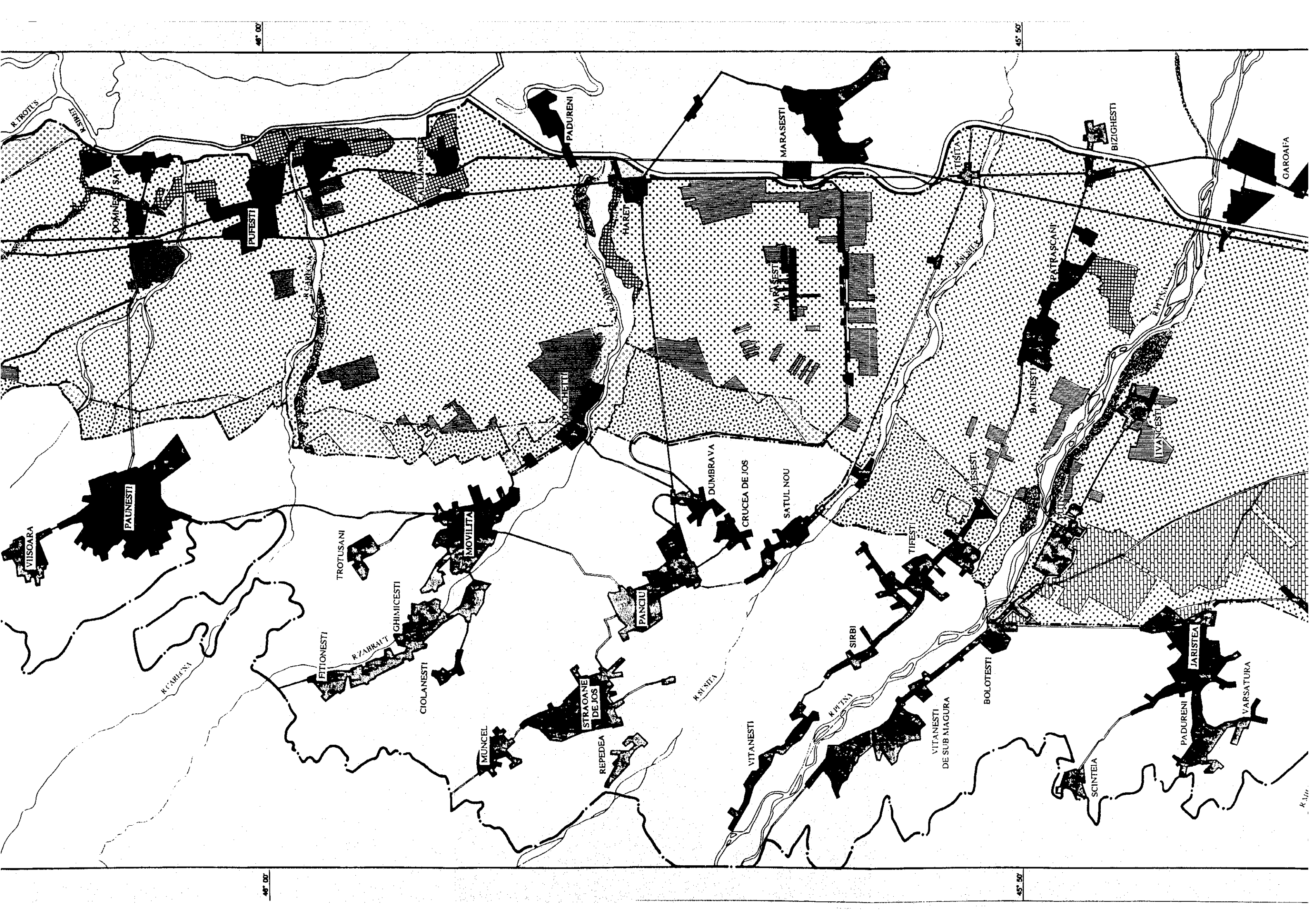


Fig. 4.2.3-A4 Longitudinal Profile of Siret Baragan Canal





46° 00'

45° 50'

46° 00'

45° 50'

Map labels (villages and towns):
VIISOARA, PAUNESTI, DOMINUS SAT, PUFESTI, ALIMANESTI, PADURENI, MARASESTI, TISITA, BIZIGHESTI, GAROAFI, PATRASCANI, BATINESTI, IVANCIESTI, MOCHETI, MAIESTI, DUMBRAVA, CRUCEA DE JOS, SATUL NOU, TIFESTI, MOIESTI, R. CARCENI, R. TROIUS, R. ERIS, R. CARACANI, R. ZAHRAI, TROIUSANI, MOVILITA, GHINICESTI, CIOLANESTI, STRAONE DE JOS, REPEDEA, MUNCEL, PANCIU, SIRBI, BOLOTESTI, VITANESTI, VITANESTI DE SUB MAGURA, SCINTEIA, PADURENI, JARISTEA, VARSATURA, R. MINTIA, R. PITI, R. M. N. V. I.

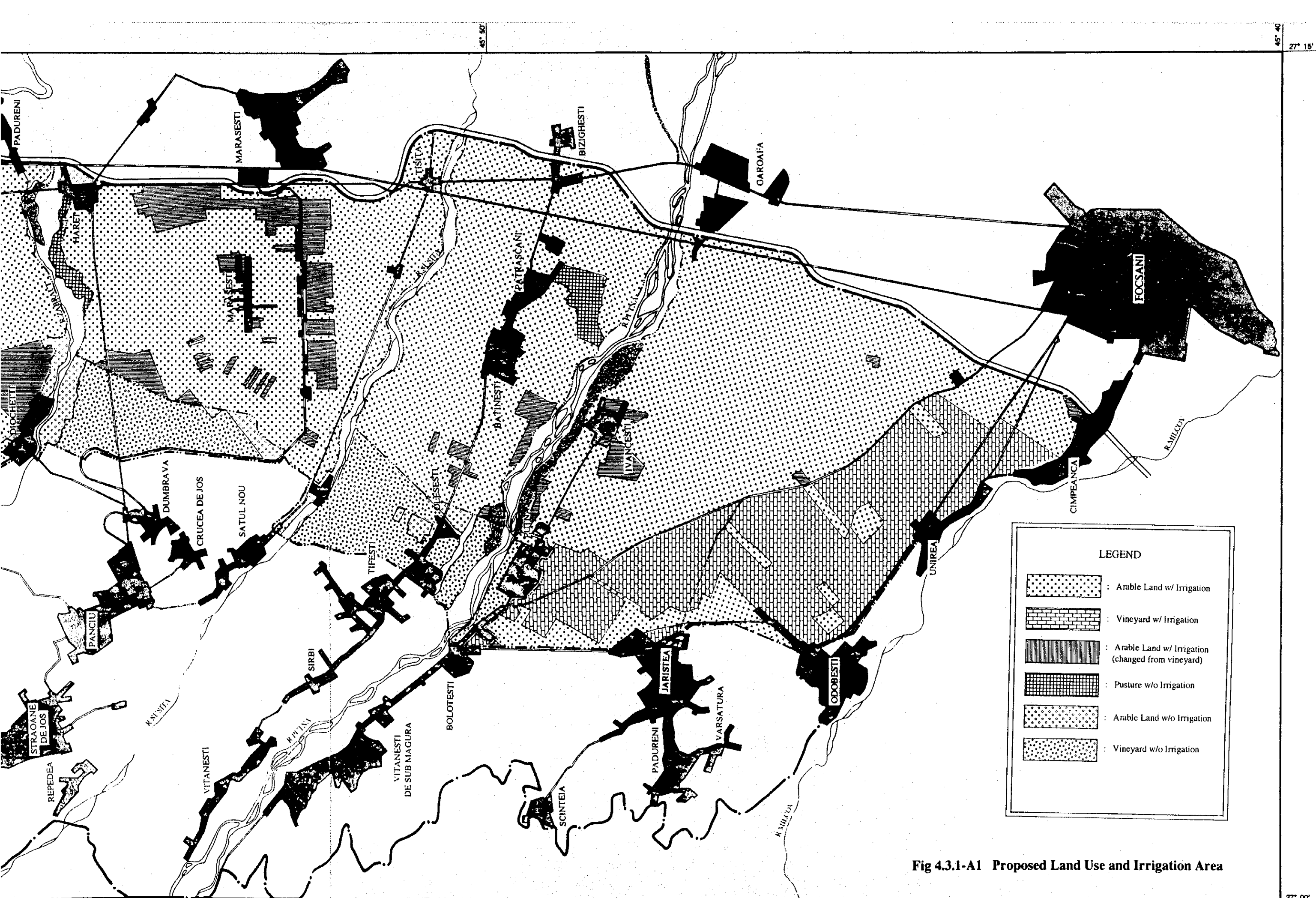
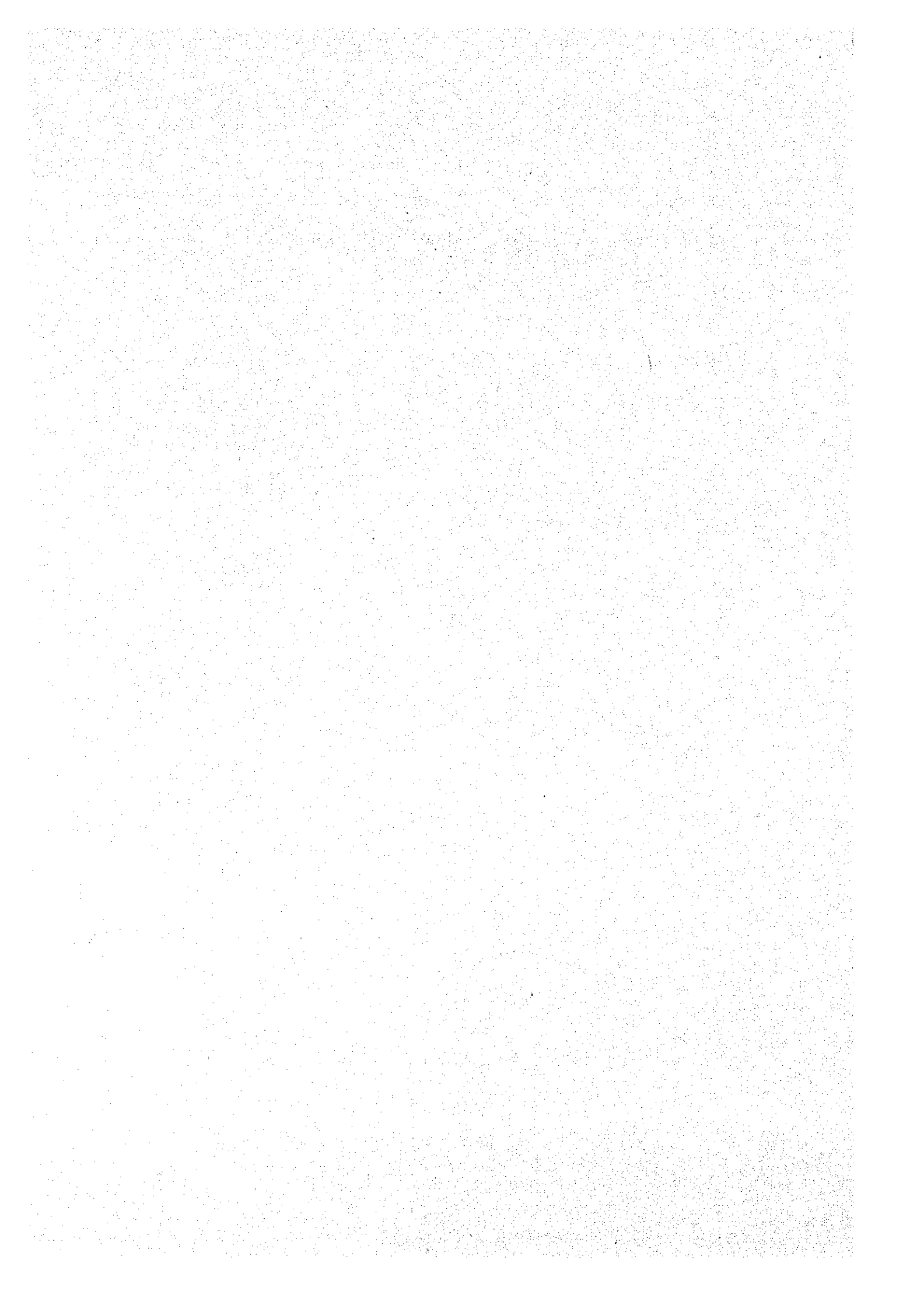
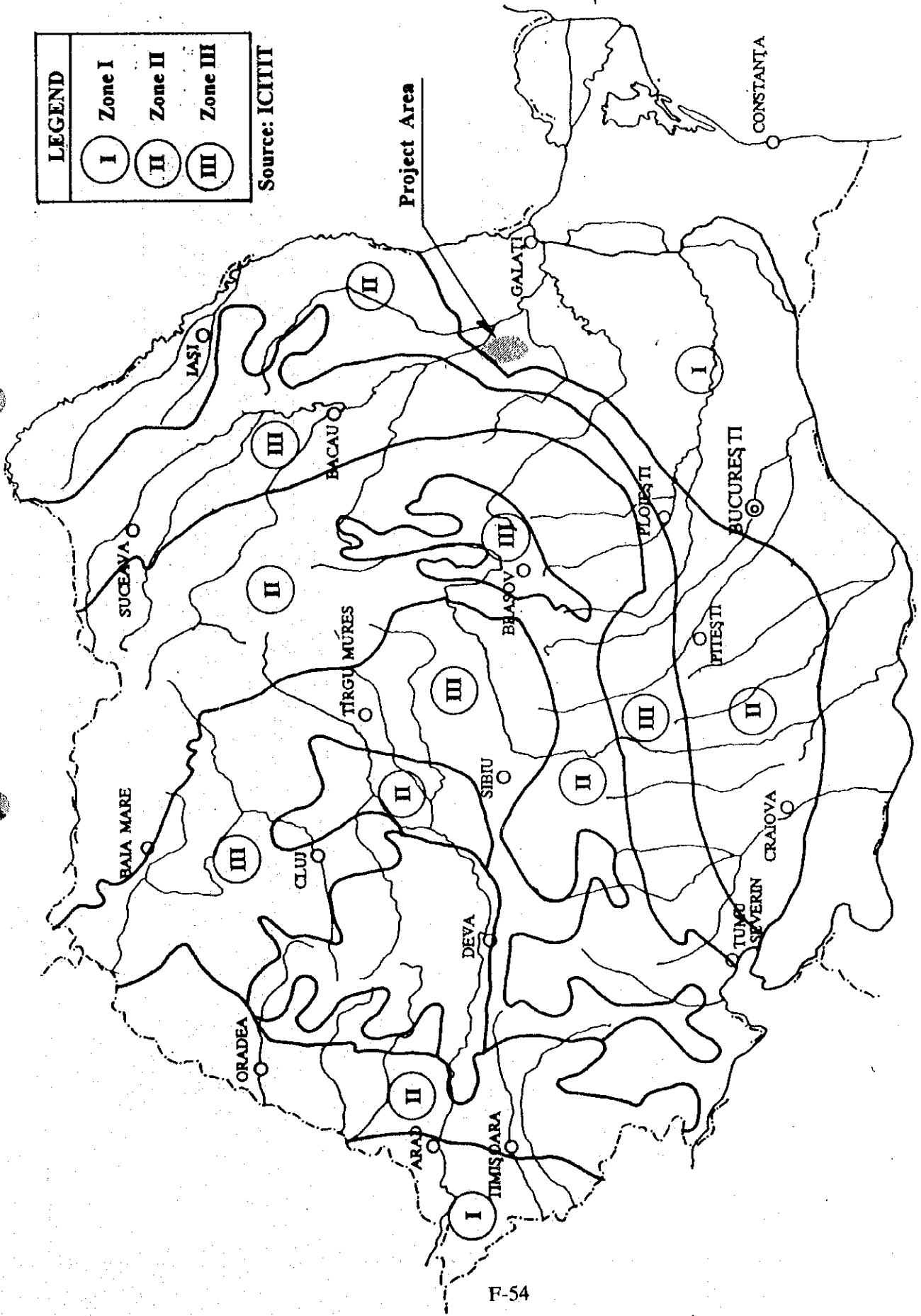


Fig 4.3.1-A1 Proposed Land Use and Irrigation Area





LEGEND	
⊙ I	Zone I
⊙ II	Zone II
⊙ III	Zone III

Source: ICITIT

Fig. 4.3.2-A1 Agro-Climatic Zones in Romania

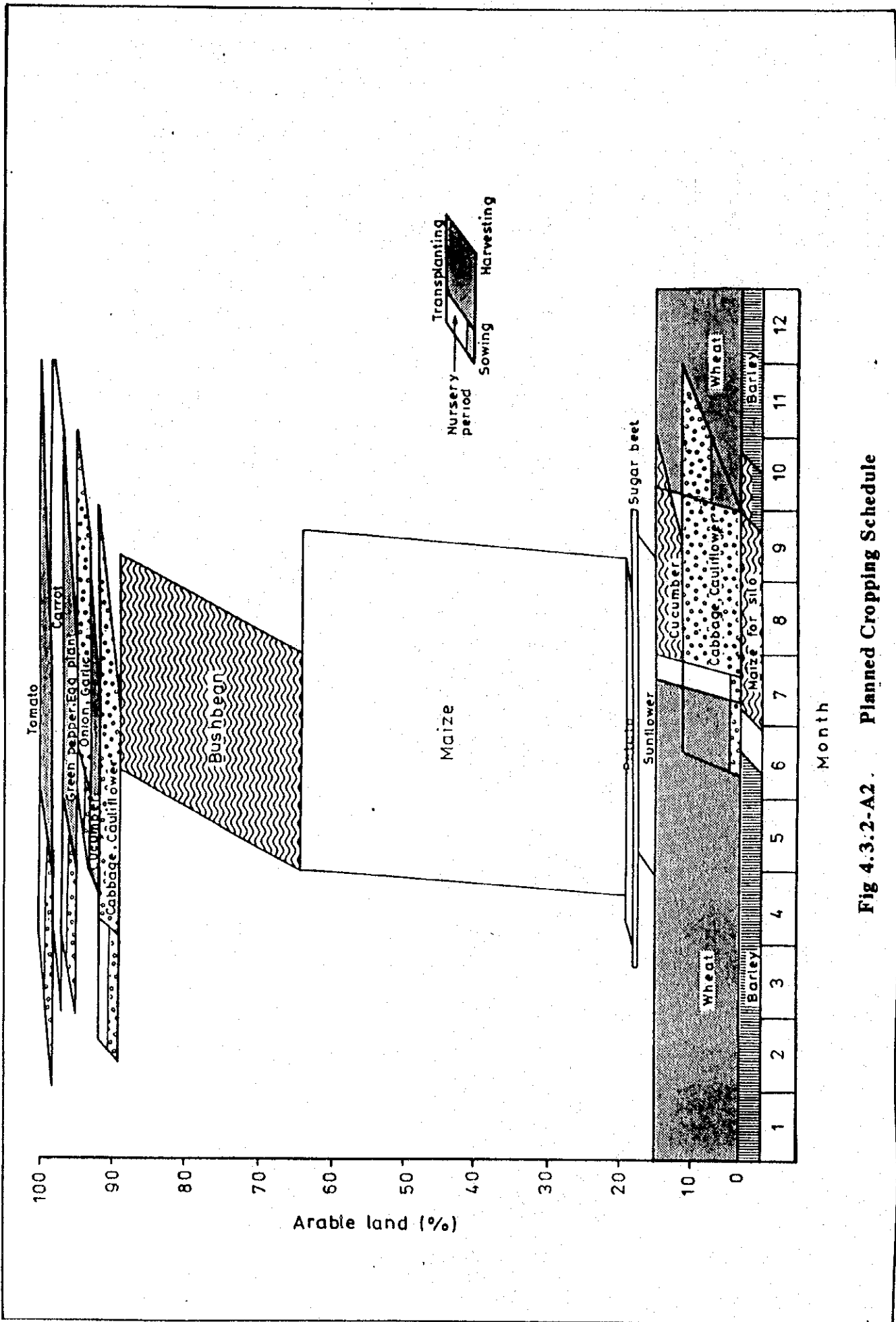
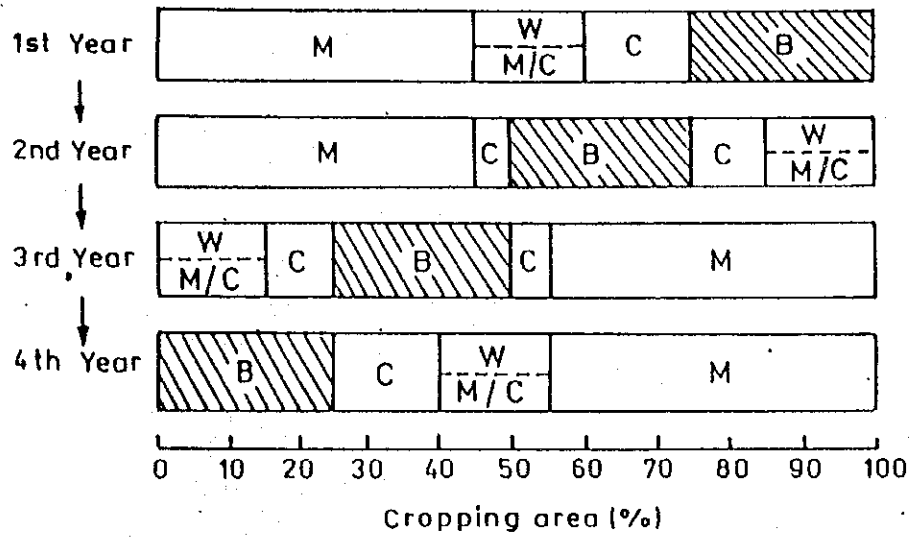


Fig 4.3.2-A2. Planned Cropping Schedule



- M: Maize
- W: Wheat and Barley
- B: Soybean / Bush bean
- C: Cash crops (Vegetables, Sunflower, Sugar beet)
- M/C: Maize for silo, cash crops (Succeeding crops of wheat and Barley)

Fig. 4.3.2-A3 Planned Crop Rotation

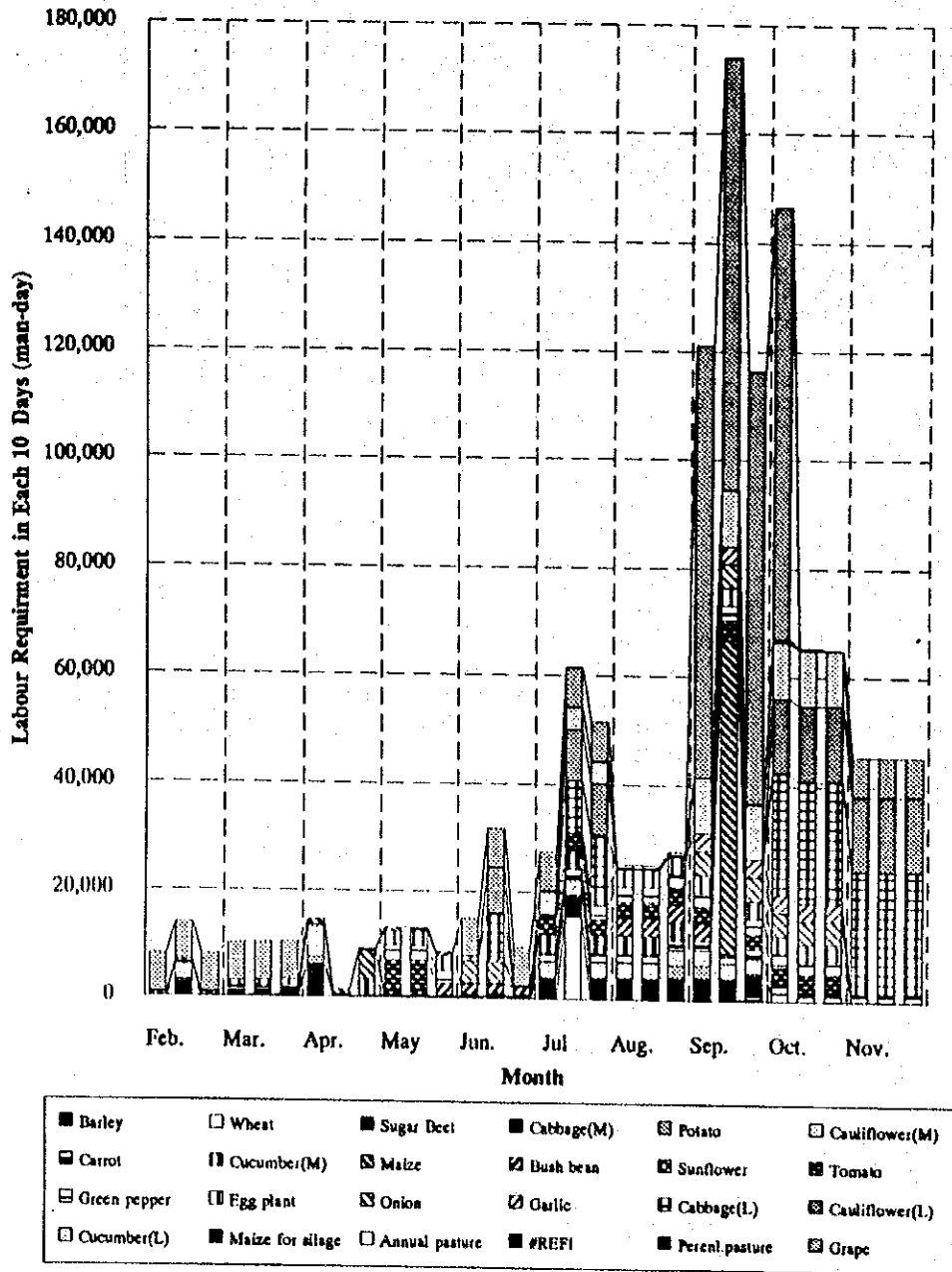
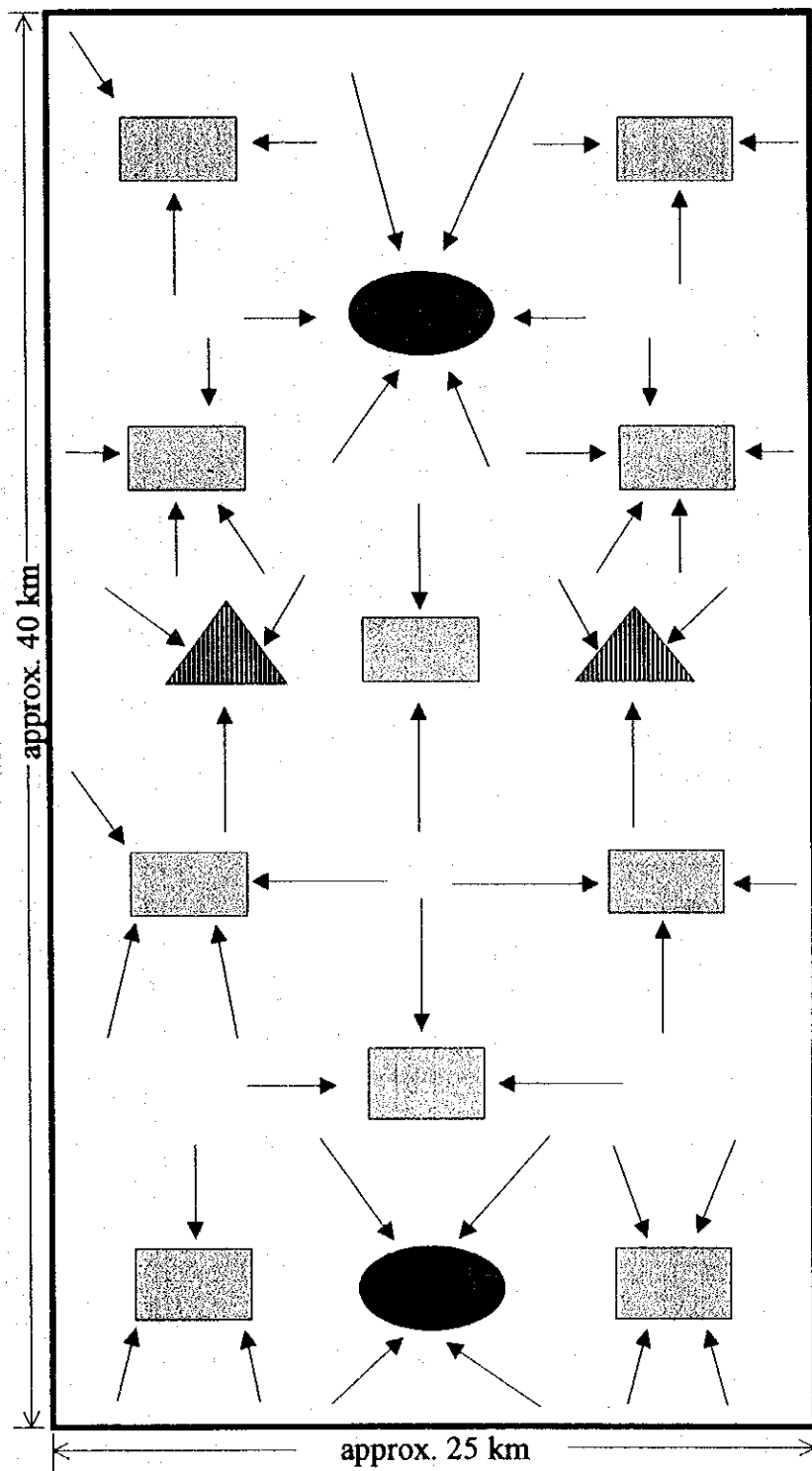



Fig. 4.3.2-A4 Labour Requirement for Crop Production with the Project



LEGEND:


Plant for potato
& carrot


Plant for onion
& garlic



Plant for cucumber,
cabbage, cauliflower,
green pepper, egg plant &

Fig. 4.3.6-A1 Layout Plan of Packing Houses in the Project

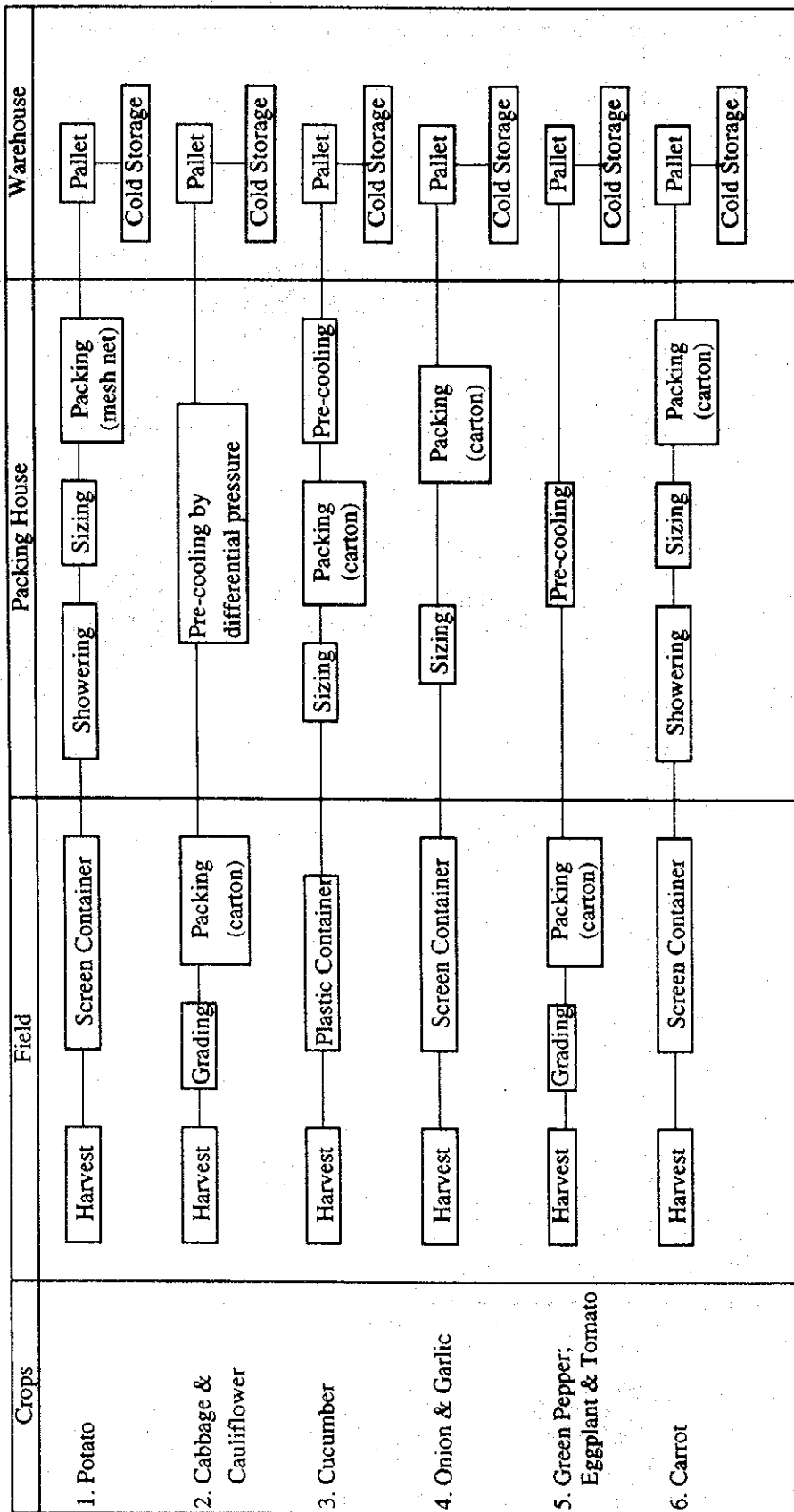
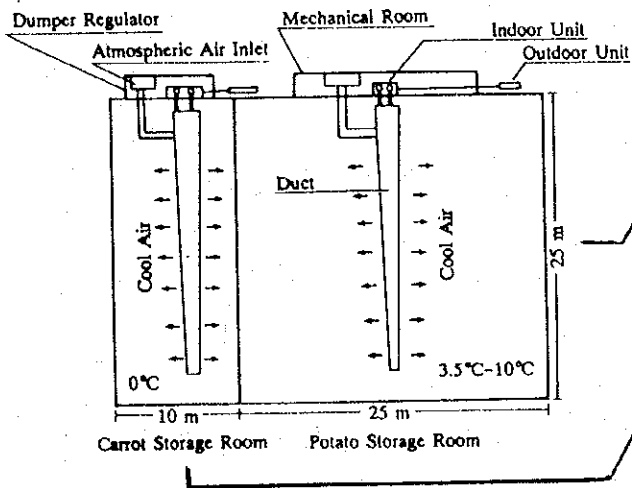


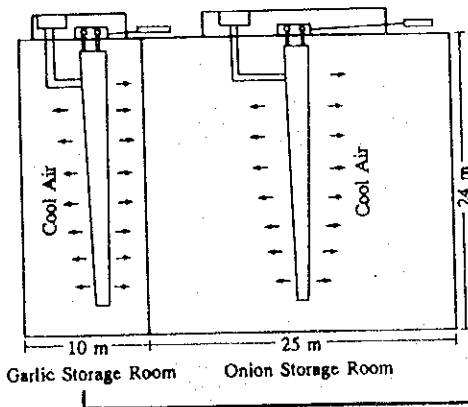
Fig 4.3.6-A2 Vegetable Processing Flowchart



TYPE I

Nominal Capacity : 5,875 ton
 Effective Capacity : 423 ton
 Compressor : 30 KW x 1 unit
 Fan: Cooling Unit: 3.7 KW x 2 units
 Air Inlet : 0.7 KW x 3 units

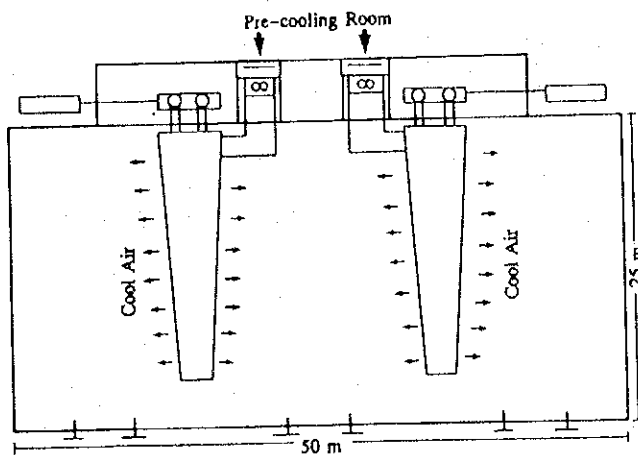
Nominal Capacity : 1,104 ton
 Effective Capacity : 398 ton
 Compressor : 30 KW x 1 unit
 Fan: Cooling Unit: 3.7 KW x 2 units
 Air Inlet : 0.7 KW x 3 units



TYPE II

Nominal Capacity : 2,780 ton
 Effective Capacity : 200 ton
 Compressor : 30 KW x 1 unit
 Fan: Cooling Unit: 30 KW x 1 unit
 Air Inlet : 0.7 KW x 3 units

Nominal Capacity : 975 ton
 Effective Capacity : 350 ton
 Compressor : 30 KW x 1 unit
 Fan: Cooling Unit: 3.7 KW x 2 units
 Air Inlet : 0.7 KW x 3 units

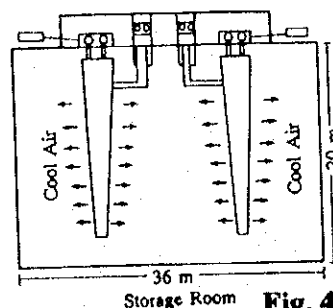


TYPE III

Pre-cooling and Storage Room
 for Cabbage, Cauliflower, Cucumber,
 Bell Pepper, Eggplant and Tomato

Differential Pressure Pre-cooling System

Compressor : 30 KW x 2 units
 Fan: Cooling Unit: 3.7 KW x 2 units
 Air Inlet : 0.7 KW x 3 units
 Differential Pressure Fan: 2.2 KW
 x 10 units

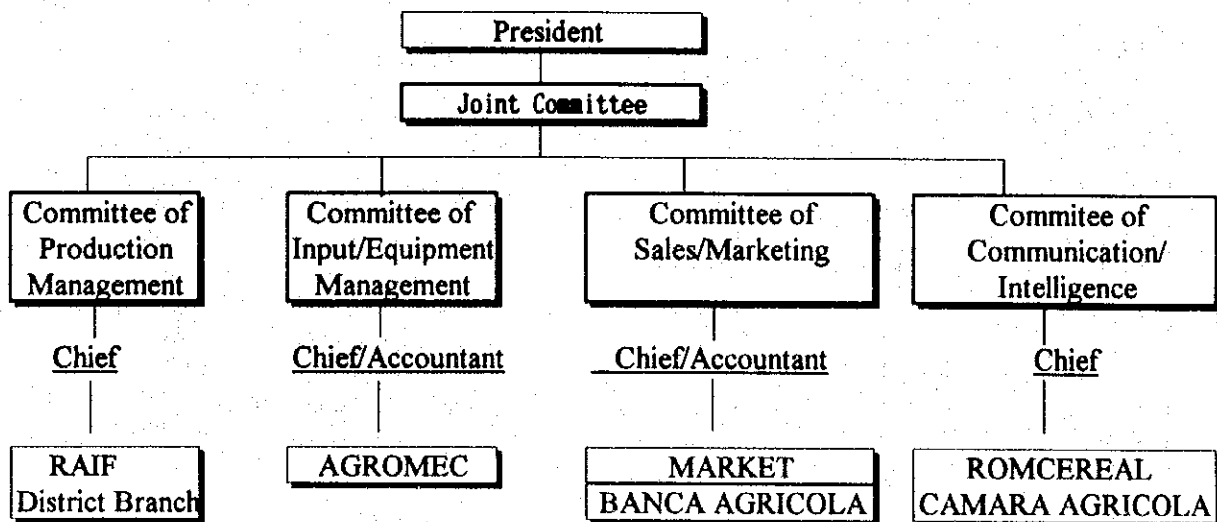


Cold Storage Room

Nominal Capacity : 3,350 ton
 Effective Capacity : 1,206 ton
 Cooling Unit : 22 KW x 2 units
 Fan: Cooling Unit : 2.2 KW x 2 units
 Air Inlet : 0.7 KW x 2 units

Storage Room **Fig. 4.3.6-A3**

Plan of Cooling Facilities for Vegetables

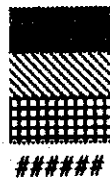


Committee	Function/Charge
Production Management	Decision of cropping and rotation, farm/field management, Water/Labor management, Livestock husbandry.
Input/Equipment Management	Input, Equipment/Machinery management, Procurement and Distribution of input/materials.
Sales/Marketing	Post-harvest, Product goods management, Operation and Maintenance of Marketing facility and vehicle, Sales promotion.
Communication/Intelligence	Supply of technical information and marketing intelligence, Booking of production/marketing.

Fig 4.3.8-A1 Planned Organization of Formal Association

Crop	Area	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.
Prec.-Evpt.(mm/month)		-11.0	22.1	27.3	26.8	26.1	13.3	-4.4	-24.3	-46.5	-73.1	-72.1	-37.6
Barley	3.0%												
Wheat	12.0%												
Crop Coef. at lasi		1.00	1.00	1.00	1.00	1.00	2.40	1.81	1.73	1.18	-	-	-
Sugar Beet	0.5%												
Potato	1.0%	0.70	0.85	0.90	0.90	0.85	0.60	1.12	0.83	1.13	1.21	1.09	1.26
Maize	45.0%	0.70	0.85	0.90	0.90	0.85	0.60	1.12	0.87	1.20	1.09	0.86	0.74
Soy Bean/Bush Bean	25.0%	0.70	0.85	0.90	0.90	0.85	0.60	0.88	0.83	0.98	1.24	1.09	0.83
Beans		0.70	0.85	0.90	0.90	0.85	0.60	0.71	0.77	0.98	1.24	1.09	0.83
Sunflower	2.5%	0.70	0.85	0.90	0.90	0.85	0.60	0.71	0.83	1.00	1.10	0.84	0.65
Silage Maize	3.0%												
Vegetables													
Cabbage, medium	1.5%												
Cabbage, late	4.0%												
Cauliflower, medium	1.5%												
Cauliflower, late	4.0%												
Cucumber, early	1.0%												
Cucumber, late	4.0%												
Onion, water	1.0%												
Garlic	1.0%												
Green Papper	1.0%												
Egg Plant	1.0%												
Carrot	1.4%												
Tomato	1.5%												
Lucerne	0.1%	1.00	1.00	1.00	1.00	1.00	1.00	1.81	1.27	1.10	1.19	0.97	0.87
Grape	10.7%	0.70	0.85	0.90	0.90	0.85	0.60	0.86	0.75	0.82	0.70	0.79	0.65

Notes :



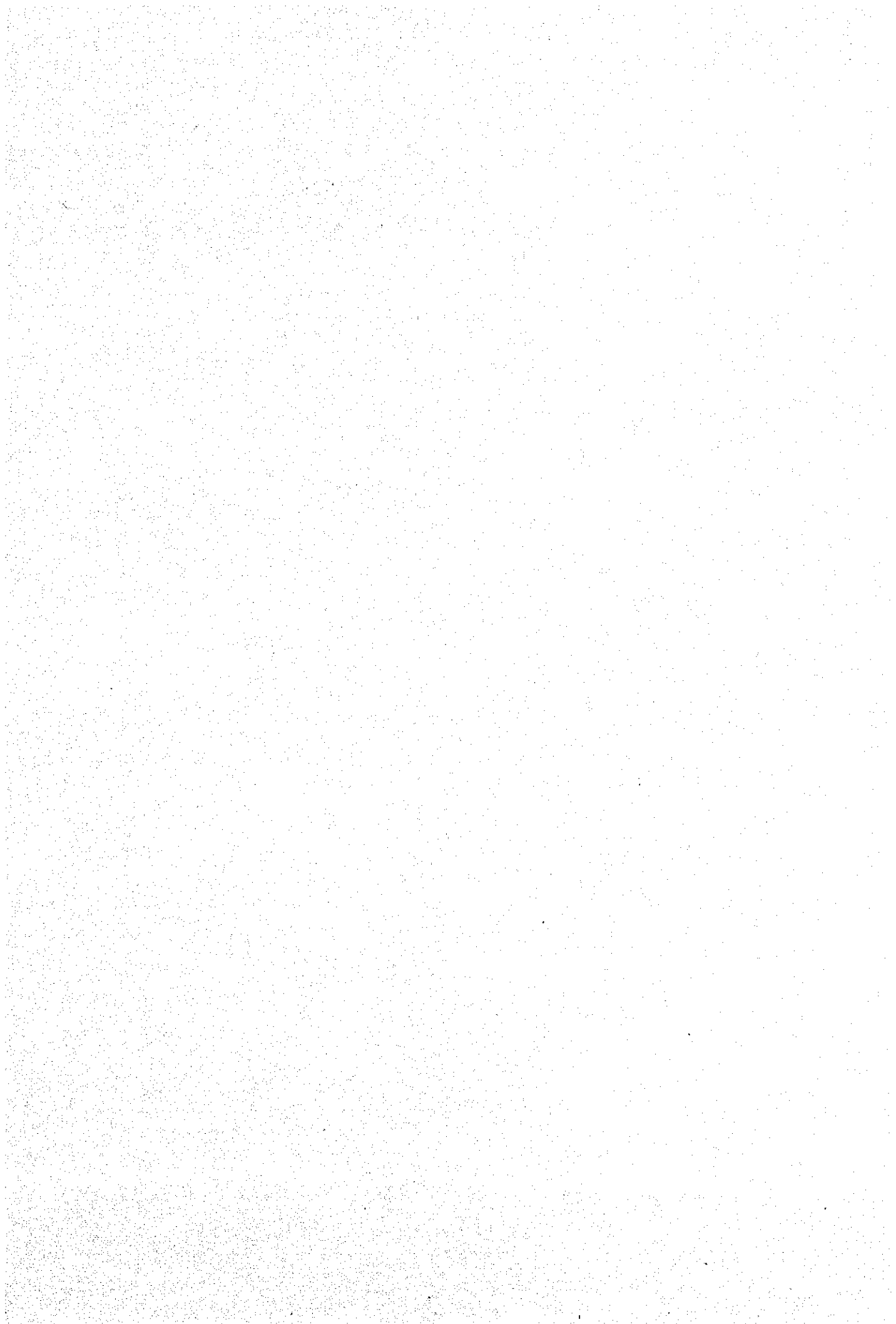
growing period

nursery period (between sowing and transplanting)

harvesting period

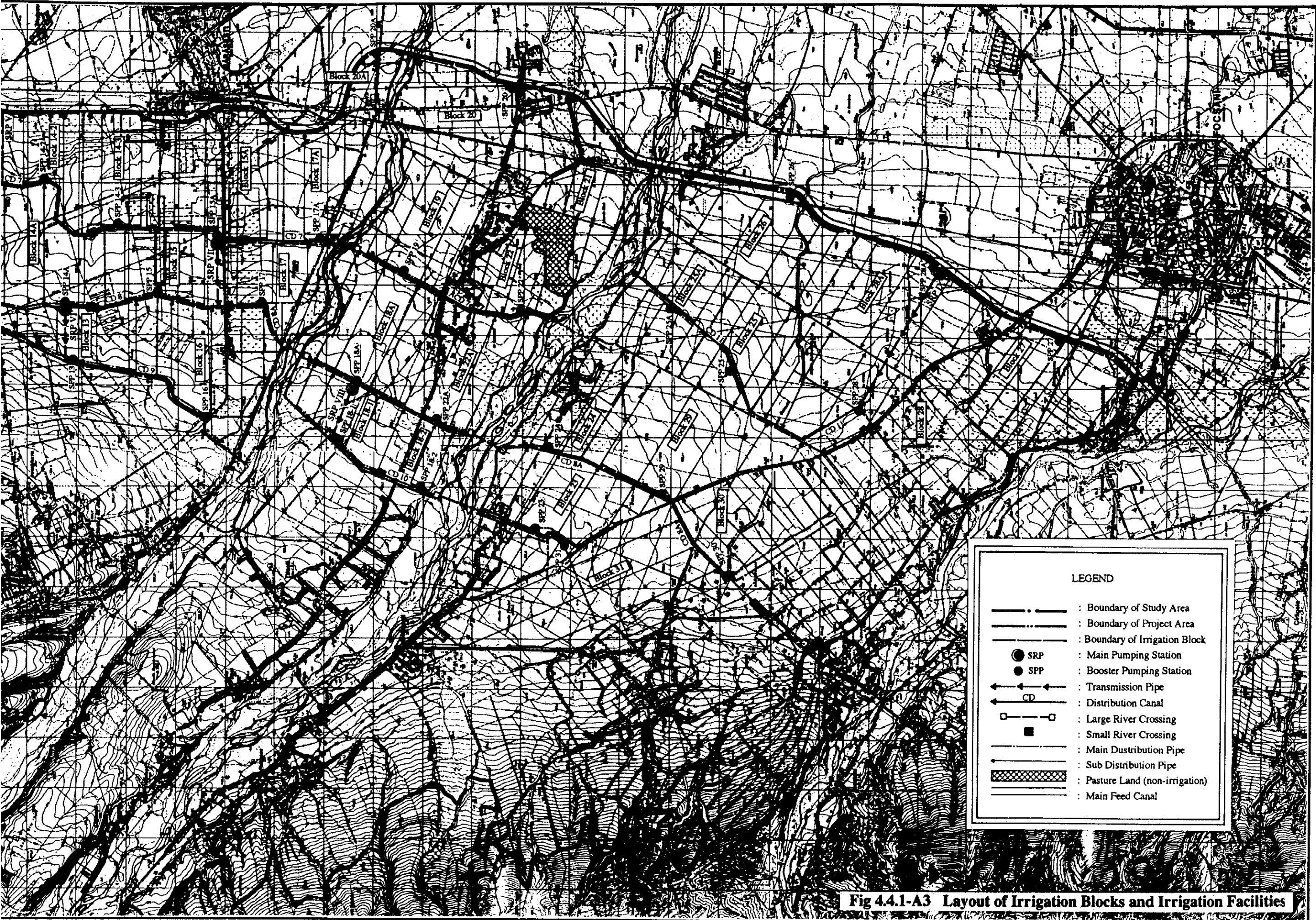
irrigation period estimated by ICITID

Fig. 4.4.1-A1 Cropping Period and Crop Coefficients



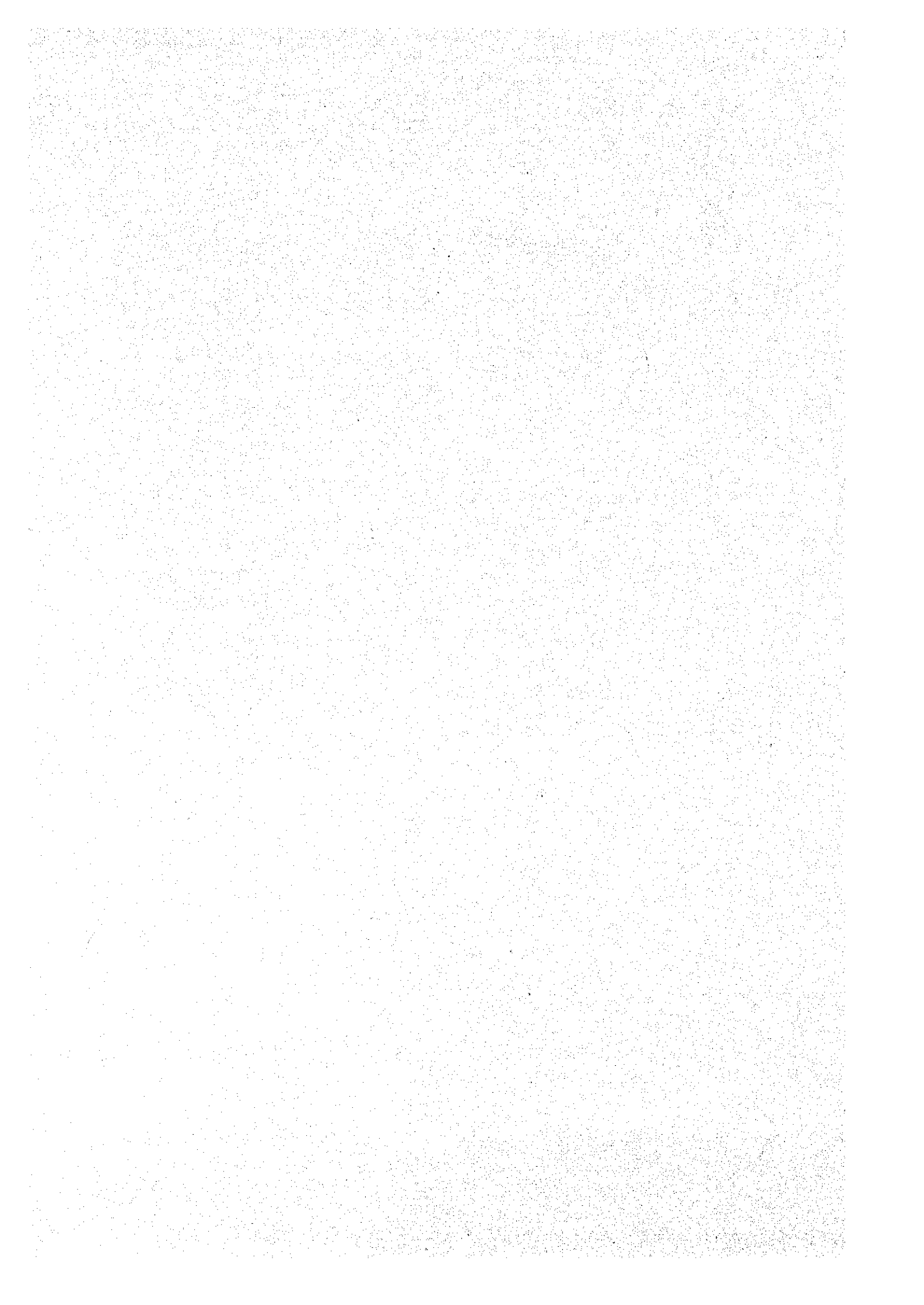


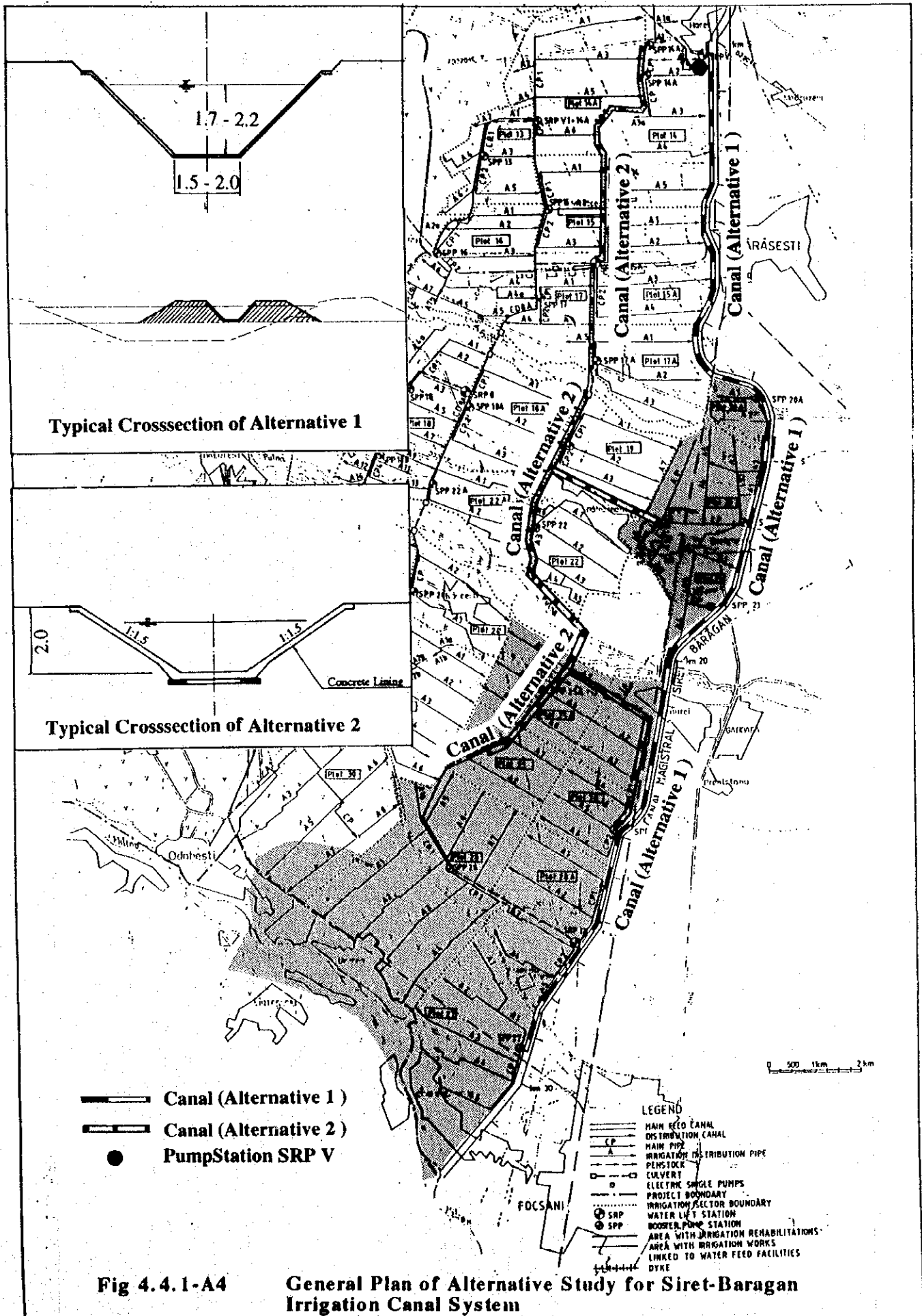




LEGEND	
— · —	: Boundary of Study Area
— · · —	: Boundary of Project Area
— — —	: Boundary of Irrigation Block
● SRP	: Main Pumping Station
● SPP	: Booster Pumping Station
← ← ←	: Transmission Pipe
← CD	: Distribution Canal
□ — □	: Large River Crossing
■	: Small River Crossing
— — —	: Main Distribution Pipe
— — —	: Sub Distribution Pipe
▨	: Pasture Land (non-irrigation)
— — —	: Main Feed Canal

Fig 4.4.1-A3 Layout of Irrigation Blocks and Irrigation Facilities





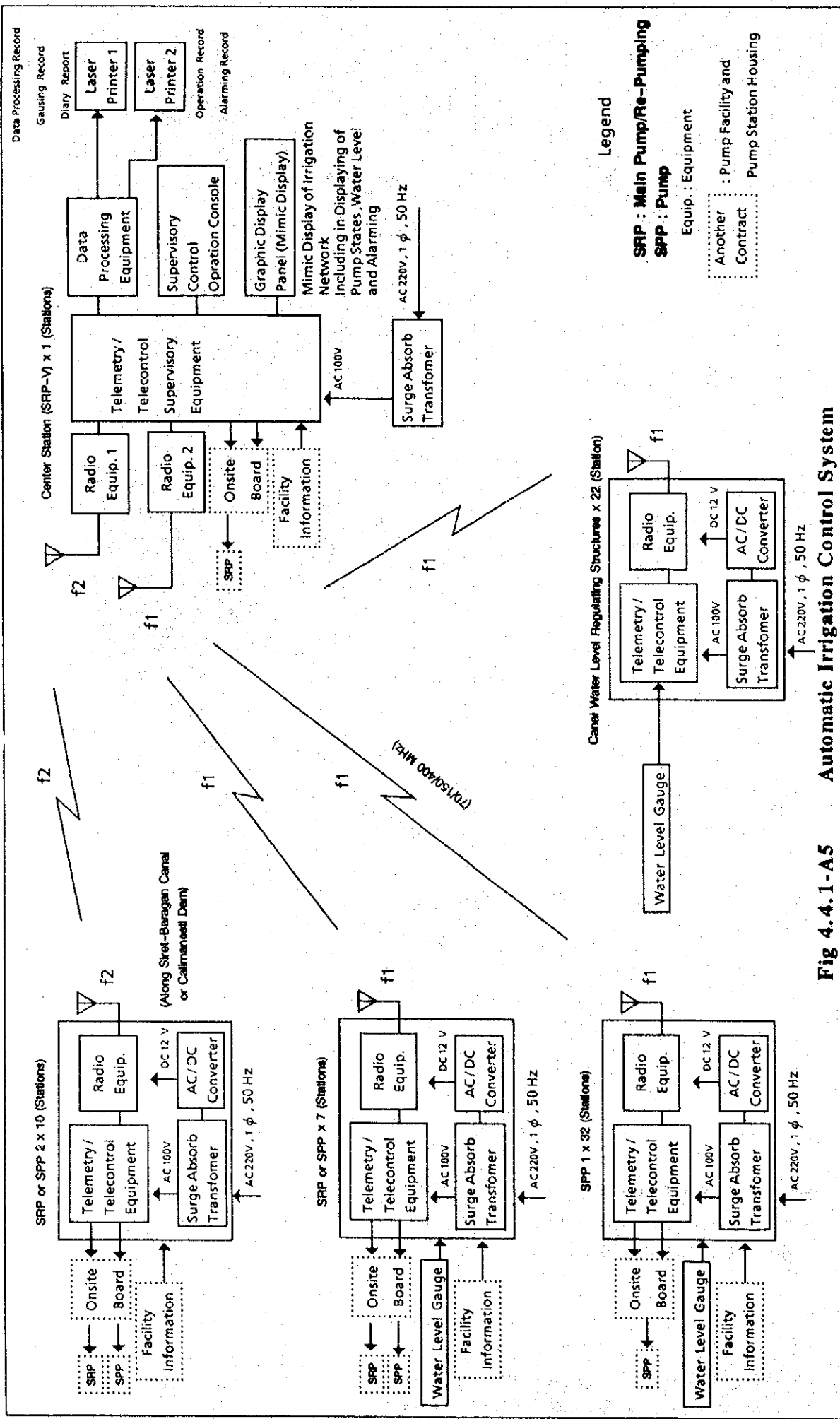


Fig 4.4.1-A5 Automatic Irrigation Control System

