THE ISLAMIC REPUBLIC OF IRAN MINISTRY OF AGRICULTURE

THE FEASIBILITY STUDY ON

THE IRRIGATION AND DRAINAGE DEVELOPMENT PROJECT

IN

THE HARAZ RIVER BASIN

APPENDIXES (C,D,E)

JULY 1993

JAPAN INTERNATIONAL COOPERATION AGENCY

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APPENDIX C. AGRICULTURE AND AGRO-ECONOMY

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CONTENTS

			Page
C. 1	Land		C1-1
	C. 1. 1	Land Ownership in the Project Area	C1-2
	C. 1. 2	Present Cropping Area & Cropping Pattern in the Project Area	C1-3
	C. 1. 3	Farming Types in the Project Area	C1-5
	C. 1. 4	Planned Cropping Area & Cropping Pattern in the Project Area	C 1-5
C. 2	Crop		C2-1
. •	C. 2. 1	Present Production of Main Crops in the Project Area	C2-1
	C. 2. 2	Present Yield/ha of Paddy in the Project Area	C2-2
	C. 2. 3	Yield/ha of Paddy in the Project Area under Project	C2-2
	C. 2. 4	Crop Production in the Project Area under Project	C2-3
C. 3	Livestoc	k *	
	C. 3. 1	Livestock Population in the Project Area	
	C. 3. 2	Livestock Farming Plan in the Project Area	C3-2
٠			
C. 4	Agro-Ec	onomy and a data was a second as the second as a first of the second as a seco	. C4-1
	C. 4. 1	Availability of Agri-machinery in the Project Area	C4-1
	C. 4. 2	Farmer's Family Budget in the Project Area	C4-2
	C. 4. 3	Production Cost of Rice in the Project Area	C4-2
7	C. 4. 4	Price of Main Crops in the Project Area	. C4-2
	C. 4. 5	Estimation of Production Cost of Paddy under Project	C4-2

LIST OF TARLES

		<u>Page</u>
Table C.1-1	Land Ownership in the Project Area by Dehstans	C4-3
Table C. 1 - 2	Land Ownership in the Project Area by Irrigation Zones	C4-4
Table C. 1 - 3	Land Ownership in the Project Area by Dehstans in 1988	C4-5
Table C. 1 - 4	Farming Types in the Project Area by Dehstans	C4-6
Table C. 1 - 5	Farming Types in the Project Area by Irrigation Zones	C4-7
Table C. 1 - 6	Planned Land Use by Irrigation Districts and Zones	C4-8
Table C. 1 - 7	Planned Land Use by Sub-Districts	C4-10
Table C. 2 - 1	Production of Main Crops in Ex-Amol & Babol Shahrestans	
	Since 1980/81	C4-12
Table C. 2 - 2	Land Use, Cropping Area and Production of Main Crops in the	
	Project Area by Dehstans	C4-13
Table C. 2 - 3	Land Use, Cropping Area And Production of Main Crops in the	
	Project Area by Irrigation Zones	C4-16
Table C. 2 - 4	Cropping Area and Yield/ha of Paddy in Ex-Amol Shahrestan by	
	Varieties Since 1984/85	C4-19
Table C. 2 - 5	Data on Mid-summer Drying Effects	C4-20
Table C. 2 - 6	Data on Density Spacing of Paddy Planting	C4-21
Table C. 2 - 7	Number of Seedlings per Hill and Corresponding Yields	C4-23
Table C. 3 - 1	Population of Cattle & Sheep/Goat in Total Shahrestan & Project	
	Area	C4-24
Table C. 3 - 2	Livestock Population in the Project Area by Dehstans	C4-25
Table C. 3 - 3	Livestock Population in the Project Area by Irrigation Zones	C4-26
Table C. 3 - 4	Basic Factors for Livestock Farming	C4-27
Table C. 3 - 5	Present Livestock Farming	C4-28
Table C. 3 - 6	Planned Livestock Farming	C4-29
Table C. 3 - 7	Estimated Production under the Project	C4-29
Table C. 4 - 1	Availability of Agri-machinery in the Project Area by Dehstans	C4-30
Table C. 4 - 2	Availability of Agri-machinery in the Project Area by Irrigation Zones	C4-31

		Page
Table C. 4 - 3	Result of Sample Survey of Farmer's Family Budget in the Project Area	C4-32
Table C. 4-4	Production Cost of Rice in Ex-Amol & Babol Shahrestans in 1989, 1990 & 1991	C4-34
Table C. 4 - 5	Market Price of Rice by Variety in Amol City Since 1360	C4-35
Table C. 4 - 6	Farm-Gate Price Fluctuation in 1991-92 in the Project Area	C4-36
Table C. 4-7	Cost Estimation for With-Project Crop Production Cost in the	
	Project Area	C4-37

APPENDIX C. AGRICULTURE

C. 1 Land

(1) Data Applied

2 data sources related to land ownership are available for the Project Area. The first one is survey result of the MOA during the Master Plan Study in 1985, and the other is Agricultural Census in 1988.

Only available data to grasp the present cropping area in the Project Area is that of Agricultural Census in 1988, but the data is not sufficiently complete and accurate. Therefore, the Project Team collected supplemental information in parallel with measurement of cropping area from the aero-photo taken in 1985.

To clarify the farming type in the Project Area, the MOA survey in 1985 is applicable.

(2) Analysis

The MOA survey in 1985 covers 419 villages in the Project Area, but the Agricultural Census covers 402 villages with a considerable deviation by the Dehstan. Therefore the former data was mainly applied for further analysis about land ownership.

The measured area from the aero-photo in 1985 was mainly applied to clarify the present cropping area and check with the analysed result of the Agricultural Census.

The available data related to the farming type in the Project Area is rather limited, therefore some supplementary survey was also performed as explained in the para. C. 4. 2 below.

C. 1. 1 Land Ownership in the Project Area

The mean land ownership in the Project Area was 1.66 ha per a land owner farmer according to the MOA survey in 1985, but that of the Agricultural Census was 1.56 ha. Tables C. 1 - 1, C. 1 - 2 and C. 1 - 3 show the details of land ownership based on the 2 available data sources, and followings are read therefrom:

1) Total Farmland

The total area of farmland is assumed, filling the blank of each data with the other data, as below:

	MOA Survey in 1985		Agricultural Census in 1988		
	Data	Revised	Data	Revised	
Amol Area	39,356 ha	41,060 ha	39,899 ha	43,530	
Babolsar Area	7,233	8,120	7,655	8,340	
Babol Area	14,144	14,390	12,668	12,760	
Total Project Area	60,734 ha	63,570 ha	60,222 ha	64,630 ha	

On the other hand, the measured farmland from the aero-photo in 1985 was 84,498 ha, therefore land ownership of some 20,000 ha is not clear. In fact, the measured area is considered as optimum, and actual farmland in the Project Area is less than 84,498 ha but more than 64,630 ha.

2) Mean Size of Land Ownership

The mean sizes of land ownership are compared as below:

	Amol Area	Babolsar Area	Babol Area
MOA survey in 1985	1.72 ha	1.53 ha	1.55 ha
Agicultural Census	1.61 ha	1.61 ha	1.40 ha

3) Category of Farmland

From Table C. 1 - 3, the category of farmland, ratio of Annual Crop: Perenial Crop, is assumed as below:

Size of Land Ownership	Amol Area	Babolsar Area	Babol Area	Whole Area
Less than 0.5 ha	93.2: 6.8	96.2: 3.8	87.6: 12.8	92.1: 7.9
0.5- 1.0 ha	92.3: 7.7	96.5: 3.5	94.0: 6.0	93.2: 6.8
1.0- 2.0 ha	96.3: 3.7	94.9: 5.1	96.7: 3.3	97.4: 2.6
2.0- 3.0 ha	95.6: 4.4	98.5: 1.5	97.3: 2.7	96.2: 3.8
3.0- 5.0 ha	95.6: 4.4	71.3: 28.7	94.5: 5.5	91.7: 8.3
5.0- 10.0 ha	97.7: 2.3	91.7: 8.3	93.4: 6.6	96.0: 4.0
More than 10 ha	75.8 ; 24.2	60.5:39.5	34.4:65.7	64.0: 36.0
Meam	86.7: 13.3	91.1: 8.9	90.5: 9.5	91.4: 8.6

4) Necessity of Cadastral Survey

In general, there is no reliable data to clarify the land problem in the Project Area. Although the Registration Office has boundary survey of Deh as a land ownership unit before the Land Reform, the registered boundary is not showing the present situation. For future agricultural development, the cadastral survey is very important, and the village boundary shall be clarified based on the cadastral survey.

C. 1. 2 Present Cropping Area & Cropping Pattern in the Project Area

The Project Area was measured as 108,009 ha from the topo-map of 1/20,000 provided in 1968. Since that date, considerable forest/pasture lands were reclaimed and the urban areas were also expanded, therefore the present land use was reviewed using the aero-photo taken in 1985. the annual croppping land was measured as 84,498 ha from the revised land use map, and 82,834 ha of which was paddy field. (see Tables in para. 3. 3. 1 of Main Report)

On the other hand, the Agricultural Census shows the annual cropping area as 43,217 ha per 402 villages or 81.9% of total villages in the Project Area. By proportional re-arrangement based on the number of villages,

the annual cropping are become 52,768 ha, which is 62.4% of the measured cropping land from the aero-photo.

According to the field survey by the Project Team, there are considerable illegal cropping land in the Project Area by means of invasion of the nationalized forest land, therefore the actual cropping area will be more than the Agricultural Census.

Although it is rather difficult to grasp the real cropping area from the data in hand, the measured area is considered more accurate than the Agricultural Census. Therefore the measured areas are applied in the F/S Report.

As regard to the cropping pattern most of farmers are applying monoculture of paddy in the Project Area. In Table C. 1. 3, the total of land ownership was reported as 60,222 ha, but the reported total cropped land in the Agricultural Census was 53,401 ha as shown in Table C. 2 - 2. This means the cropping intensity is 88.7% in the Project Area or 11.3% of farmland is counted as fallow land. However, such ratio of fallow land is hardly acceptable according to the field survey by the Project Team, and the cropping intensity is assumed as more than 110% at present.

The prevailing cropping pattern in the Project Area is assumed as below:

Cropping Pattern	<u>:</u>	Cropping Area	Annual Total
Paddy mono-culture		74,230 ha	74,230 ha
Orchard		3,700 *	3,700
Paddy + Berseem		4,000	8,000
Paddy + Winter Vegetables		4,040	8,080
Paddy + Barley/Wheat		355	710
Paddy + Pulse (Broad Bean)		205	410
Summer + Winter Vegetables		265	530
Total		86,795 ha	95,660 ha

^{*} Although the orchard is measured as 1,399 ha, considerable area is included in the village area. It is hardly possible to read out the orchard in village area from the aero-photo.

C. 1. 3 Farming Types in the Project Area

From the viewpoint of land ownership, following 5 types are seen in the Project Area as detailed in Tables C. 1. 4 and C. 1. 5:

- 1) Resident Land Owner including self cultivating landowner which shares 74.6% of Farming Family.
- 2) Non-resident Land Owner who is living in other village or urban area shares 4.2%.
- 3) Full-time Crop Sharing who is a kind of permanent tenant either small land owner farmer or landless farmer.
- 4) Part-time Crop sharing who is contracting particular works such as transplanting, weeding, harvesting, etc. and receiving certain portion of harvested crop, and they are either small land owner farmer or landless farmer.
- 5) Landless Farmer who shares 21.2% of Farming Family, and they are engaging either as Full-time or Part-time Crop Sharing. Very few landless farmer are working as wage-base Farm Worker.

C. 1. 4 Planned Cropping Area & Cropping Pattern in the Project Area

The cropping area in the Project is estimated from the measured land use from the aero-photo, which shows the present cropping area as much as 78% of the gross area of the Project Area.

As explained in the para. 4. 3. 1 of the Main Report, the existing forest and pond area are to be kept as it is, and future agricultural development is planned within the present farmland.

Table C. 1 - 6 shows the breakdown of planned land use and Table C. 1 - 7 shows the detailed farmland area by the sub-district.

C. 2 Crop

(1) Data Applied:

3 categories of data are applied to grasp the present crop production in the Project Area, viz., (1) data provided by the Agro-economy & Statistic Division of the Mazandaran General Department of Agriculture, (2) data provided by the Amol & Babol ARTSC, and (3) Agricultural Census in 1988. Some additional data was also obtained through the field survey by the Project Team.

(2) Analysis:

The data supplied by the GDA of Mazandaran were Shahrestan total and it is hardly possible to separate the Project Area therefrom. The data of ARTSC were mainly yield of paddy by variety. Only data available to grasp the production in the Project Area was that of Agricultural Census, but the accuracy is rather doubtful comparing with other data.

C. 2. 1 Present Production of Main Crops in the Project Area

Table C. 2 - 1 shows 10 years production of wheat, barley and paddy in ex-Amol and Babol Shahrestans. Both Shahrestans show a trend of decline of wheat and increase of paddy. The cropping area of barley is also decreasing, but not so sharp as wheat.

It is said that the double cropping of paddy + wheat is rather difficult in the Project Area due to climactical reason, but barley is easier to apply as second crop, and present cropping area of barley is mainly as second crop at the paddy field.

Tables C. 2 - 2 and C. 2 - 3 are showing the cropping area and production of main crops in the Project Area in 1987/88 by Dehstan and by Irrigation Zone.

C. 2. 2 Present Yield/ha of Paddy in the Project Area

Table C. 2 - 4 shows the cropping area and yield of paddy by varieties in Amol area for 7 years since 1984/85. In this table, a trend of decrease of yield of Tarom is observed, while the yield of Khazar is still increasing. The yield of paddy without project implementation is estimated as below:

	Recorded Yield		Ass	sume Linear Regr	ession	
Year	Tarom	Khazar	Amol - 3	Taron	& Amol - 3	Khazar
1985	4,800	-	8,100		-3.5	-
1986	4,100	-	7,900		-2.5	-
1987	4,450	2,200	7,050	•	-1.5	-2.5
1988	3,440	4,230	5,510		-0.5	-1.5
1989	4,968	5,391	7,898		0.5	-0.5
1990	4,106	5,542	8,144		1.5	0.5
1991	5,030	5,700	6,590	-	2.5	1.5
1992	3,500	4,500	8,100		3.5	2.5
Average	4,299	4,594	7,142	Total o	f Square: 42	18
SIGMA XY	-35,445	33,468	-1,977	Tarom:	Y = -47 (X - 1)	988.5) + 4,299
	-14,541	22,571	8,031	Khazar:	Y = -459 (X - 1)	989.5) + 4,594
	-61,430	60,990	-440	Amol-3:	Y = -10 (X - 1)	1988.5) + 7,412
Est	imated Yield	l in 1992		Yield	for without Proje	ect
		4,135			4.1 t/ha	
-		5,741			5.7 t/ha	
		7,375			7,4 t/ha	

C. 2. 3 Yield/ha of Paddy in the Project Area under Project

Table C. 2 - 5, C. 2 - 6 and C. 2 - 7 show the effect of mid-summer drying, density spacing and number of seedling per hill to the yield of paddy, and the expecting yield of paddy under the Project are summarized as below:

Yield Increasing Factors Controlling Introducing Optimizing Preventing Maturity Optimum Mid-summer Seedling Fertilizer Total VARIETY Density Drainage Number Loss Early LOCAL 2.3% 5.6% 2.4% 2.6% 12.9% Medium H. Y. V. 2.8 3.8 16.7 4.5 5.6 <u>Late</u> H. Y. V. 13.7 5.6 8.0 2.8 4.5

From the above shown result, the with Project yields are determined as below:

	Current Yield	Expected Increment	With-project Yield
Early matured			
Local varieties	4.0 t/ha	12.9%	4.5 t/ha
Medium matured			
high yield varieties	5.4	16.7	6.4
Late matured			
high yield varieties	7.8	13.7	8.8

C. 2. 4 Crop Production in the Project Area under Project

Table E. 3. 3-1 shows the target crop production in the Project Area after the complete implementation of the Project.

C. 3 Livestock

(1) Data Applied

Livestock population is reported in the Village Gazette in 1986 and Agricultural Census in 1988. Both data are village basis, therefore it is easy to separate the population in the Project Area. As regard to the poultry, the MOA survey in 1985 is available.

(2) Analysis

The Village Gazette reported total population of cattle and sheep/goat, hence the Agricultural Census shows breakdown by varieties and race. There are notable difference in the total population of cattle in two data sources. The difference is considered as coming from the dates of 2 surveys: 16 - 30th of Mehr (7 - 21st of October) in case of the Village Gazette and 5 - 25th Shahrivar (26th of August - 19th of September) in case of the Agricultural Census. Large number of cattle, especially those local variety, are in grazing at the mountain area before harvesting paddy, and they may not be counted into the latter survey.

C. 3. 1 Livestock Population in the Project Area

Table C. 3 - 1 shows the population of cattle and sheep/goat in the Village Gazette, which reported 95,734 cattle and 52,935 sheep/goat in the Project Area sharing 46.5% and 18.9% of total of 2 Shahrestans, of Amol and Babol respectively.

Table C. 3 - 2 and C. 3 - 3 are showing the livestock population in the Agricultural Census by Dehstan and by Irrigation Zone, respectively. Total of sheep and goat was 40,082 head which is 75.7% of the Village Gazette data, while the population of cattle was 52,427 heads or 54.8%.

On the other hand, the MOA survey in 1985 reported the population of cattle in the Project Area as 90,648, which is more or less similar to the Village Gazette. Moreover, there is no reason of sudden decrease of cattle population in 1985 - 88 period in the Project Area, therefore the present population of cattle is

assumed as 90,000 - 100,000 heads in total, 10% of which are pure race or hybrid.

C. 3. 2 Livestock Farming Plan in the Project Area

Table C. 3 - 4 shows the basic factors to formulate the livestock farming plan, and Table C. 3 - 5 shows present situation of the livestock farming the the Project Area. The assumption in the said Table show that the supply ratio of nutrition is only 27.2% for DCP, Digestible Crude Protein, and 97.1% for TDN, Total Digestible Nutrients. Although many of farmers are supplementing the DCP by means of supply of rice bran, bagasse of sugar beet, oil seed cake etc., such notable shortage of DCP is considered as main reason of the low productivity of cattle in the Project Area at present.

Table C. 3 - 6 shows an assumption of livestock farming under the Project introducing Berseem as second crop.

C. 4 Agro-Economy

(1) Data Applied

Except number of agri-machinery and production cost of paddy, all data were directly collected by the Project Team. As for number of agri-machinery, the Agricultural Census is mainly applied as data source. The result of sample survey of production cost of paddy for 3 years of 1989-91 were supplied by the GDA of Mazandaran.

(2) Analysis

The continuous sample surveys of production cost of crops are considered as very valuable, however shortage of experience of surveyors cannot be hidden in the result.

In general, the basic data of agro-economy such as cost of agri-inputs, machinery and labor costs, working hours for various farming works etc. are not yet compiled, and collection of those data is very difficult because different sources report different figures.

The data compilation for crop production is also not satisfactorily despite of execution of many surveys thereto. It is recommended to establish a data bank system of agro-economical information.

C. 4. 1 Availability of Agri-machinery in the Project Area

Tables C. 4 - 1 and C.4 - 2 show the number of agri-machinery in the Project Area by Dehstan and by Irrigation Zone. The tiller is main agrimachine in the Project Area, and one tiller covers 3.78 ha of paddy field. 423 of tractors of 60 - 70 HP are also available, therefore number of cultivating machinery is considered as sufficient.

The Agricultural Census reported that 264 of combines are in the Project Area. Although those combines are working in the Project Area, most of them are owned by the farmers of the eastern regions such a Gorgan, Khorassan, etc. They are working in the Project Area as movable thresher

equipping with improved locally manufactured threshing attachment for paddy.

Number of thresher was reported in the MOA survey in 1985, and covering area per a thresher was 7.5 ha.

C. 4. 2 Farmer's Family Budget in the Project Area

Table C. 4 - 3 shows the result of sample survey of family budget in the Project Area, which was executed in the fall of 1992. 15 villages were selected to cover whole Project Area. 5 - 6 households/village were surveyed in different size of land ownership.

C. 4. 3 Production Cost of Rice in the Project Area

Table C. 4 - 4 shows the result of analysis of production cost survey by the GDA of Mazandaran in 1989 - 91.

C. 4. 4 Price of Main Crops in the Project Area

Table C. 4 - 5 shows the fluctuation of price of rice in Amol for 11 years since 1360 (1981/82).

Table C. 4 - 5 shows the farm-gate prices of agri-products in 1991 - 92 in the Project Area.

C. 4. 5 Estimation of Production Cost of Paddy under Project

In Table C. 4 - 7, the basic factors to estimate the production cost of paddy and Berseem are shown.

TABLE C. 1-1 LAND OWNERSHIP IN THE PROJECT AREA BY DEHSTANS

	·		·	~~~	-	·		,		Y				,	~~~	,		,							
		a] (2)	α) (S	1.342	3,596	5,357	8,356	4,522	8,064	5,400	4,031	39,356		2,982	1,855	2,396	7,233		190	5,684	8.270	14,144	60,734	
		Total	σ	368	1.588	2,308	4,367	5,813	2,587	3,843	4,183	2,650	27,717		2,590	1,378	2,090	6,058		180	4,487	6,271	10,918	44,693	
	than	5.0 hs (2)			55	533	723	1,096	645	794	776	842	5,485		329	228	999	1,223		12.	554	634	1,214	7, 802	
	More	(1)			9	76	108	178	80	66	109	75	727		41	7.2	81	149		5	72	121	198	1,074	
		5.0 ha (2)	ď	7		985		2,252	1,201	1,706	1, 136	828	9,658		478	336	486	1,300	,	28	1,243	1,494	2,765	13,720	
	.*	3.0 - 5.0 ha (1)	6		80	288	448	568	314	477	334	219	2,731		104	96	188	388		7	367	443	817	3,936	
		3.0 ha (2)		2	338	888	1,384	2,189	1,361	1,359	1,363	930	9,926		909	535	471	1,611		34	1,747	2,083	3,863	15,400	
		2.0 - 3.0 ha (1) (2)				510		930					4,455		243	211	202	629		15	728	822	1,665	6,779	
		2.0 ha (2)	:	26	538	805	1,265	2,313	785	1,491	1,389	744	9,336		822	436	430	1,687		50	1,317	2,553	3,919	14,943	
1985		1.0 - 2.0 ha (1) (2)		21	455	869	296	1,546	609	1,019	1,516	525	7,356		522	318	286	1,126		40	1,009	1,505	2,554	11,036	_
n [1.0 ha (2)		37	125	211	405	830	286	543	526	473	3,437		909	248	270	1,123		36	530	1,098	1,725	6,285	
LAND OWNERSHIP		0.5 - 1.0 ha (1) (2)		57	234	284	872	1,080	380	680	720	478	4,586		792	349	492	1,633		99	840	1,491	2,397	8,816	
	than	ha (2)		15	38	33	290	275	243	171	231	215	1,507		142	72	74	289		15	234	410	659	2,454	
	Less than	(1)		55	95	108		724	262	380	425	621	2, 574		335	168	263	392		40	619	833	1,492	5,232	
		Landless (1)	7	234	516	344	1,158	789	468	568	461	343	4,888		553	209	576	1,338		7	832	356	1,795	8,021	
REFERENCE	CODES	Dehstan	¥Ω	DNOOI	DN002	DN003	DNOO4	DN005	900NG	DN007	DN008	DNO03	Sub-tota	:	DNO10	DNOII	DNO12	Sub-total		30	DN013	DN014	Sub-total	TOTAL	

TABLE C. 1 - 2 LAND OWNERSHIP IN THE PROJECT AREA BY IRRIGATION ZONES

REFERENCE				LAND OWN	ERSHIP - I	985						· · · · · · ·		· · · · · · · · · · · · · · · · · · ·	 .
CODES	10001000	Less I		^ -									than		
irrigation zone	Landless (1)	0.5 h (1)	(2)	0.5 -	1.0 ht (2)	.1.0 - (1)	2.0 ha (2)	2.0 - (1)	3.0 ha (2)	3.0 - ((1)	5.U ha (2)	5.0 (1)	ha (2)	Tota	(2)
	:			```	(4/		- 107	1,,,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					<u> </u>	
HTU) HTU2	186	25	8	25	15	21	26	1	2	1	. 4			259	55
HWU3	48 55	30 26		32 43	22 25	45	50	21	23	8	26			110 198	28 134
Sub-lota!	289	81	26	100	62	66	76	22	25	9	30			567	217
				100	, unit	No. at					~~			: .	
HEI	114	8	2	23	27	118	115	45	54	2	6			310	204
H¥2 H¥3	173 377	52	18	166	134	479	525	292	634	173	589	46	322	1.381	2,252
H¥4	123	89 63	30 24	213 103	105 73	393 186	514 262	262 111	434 254	138 64	449 245	28 28	201 271	1,500 678	1,731
H95	76	73	141	106	79	107	145	97	241	50	193	10	82	519	880
H¥6	76	52	23	71	59	134	211	75	208	49	180	19	168	476	848
Sub-total	939	337	237	682	476	1.417	1,771	882	1,823	476	1,662	131	1,043	4,864	7,041
Total of HW	1,228	418	263	782	538	1,483	1,847	904	1,848	485	1,691	131	1,043	5,431	7,258
XLI		1	0	5	3	15	18	22	42	15	48	4	21	62	129
XL2	95	14	- 5	16	10	30	40	16	31	18	54	3	21	190	160
XL3 XL4	449 301	232	78	478	322	519	672	351	840	172	637	68	308	2,269	2,857
XL5	121	259	106 37	471 193	331 150	491 231	602 945	204 138	469 365	72 82	238 273	24 10	146 60	1,822 866	1,890
X16	127	127	46	217	144	290	290	138	365	70	213	7	84	982	1,150
Sub-total	1,093	735	271	1,380	958	1,576	2.566	873	2,115	427	1,465	116	640	6, 191	8,016
XR2	2			1	1	3	4	4	10	1	4	1	5	12	22
KR3	186	36	12	237	149	163	273	100	258	62	180	12	78	796	948
XR4 XR5	322 198	195	75 60	271 156	196 120	368	454	280	661	168	659	27	160	1.631	2,204
Sub-total	708	379	147	665	466	211 745	300 1.030	140 524	296 1,224	319	1,029	11 51	88 330	952 3,391	1,050
HEI	488	173	57	277	153	481	508	303	675	183	573	55	456	1,960	2,421
KE2	165	76	20	106	68	159	218	100	226	80	282	27	183	713	997
HE3	235	69	17	166	136	303	439	202	465	138	459	38	262	1,151	1,778
HE4 HE5	193 283	48 68	17 226	130	80	236	312	148	338	100	320	17	103	870	1,177
Sub-total	1.364	434	335	234 913	180 616	302 1,481	393 1,869	295 1,046	671 2,374	129 630	434 2,067	44 181	295 1,305	1,355 6,049	2.198 8.570
fotal of HE.	3,165	1,548	754	2,958	2,040	3,802	5.466	2,443	5,714	1,376	4,561	348	2,275	15,631	20,810
134	12	6	2	29	23	- 80	120	60	168	38	135	15	39	240	486
1£2	23	38	12	61	41	80	151	39	97	43	178	9	67	293	547
AE3 AE4	303 474	486 272	196 95	454 668	356 494	452	658	346	815	210	810	57	817 250	2,308 2,165	3,652 2,475
ÅE5	218	228	72	225	170	346 347	550 470	257 162	625 594	115 97	462 454	33	237	1,314	1,997
YEE	131	166	87	243	203	328	483	98	200	60	275	20	118	1,048	1,367
AE7	108	154	63	339	242	286	380	141	375	63	225	17	104	1,108	1,389
AE8 AE9	18 72	25 167	14	37	35	69	129	61	172	37	161	4	32	251	542
YEIO	175	64	82 25	155 96	125 86	226 128	346 176	212 60	359 167	84 62	249 165	22 25	174 189	953 610	1,335 808
AELI	628	295	89	571	334	285	476	230	536	177	510	75	683	2,242	2,628
Sub-total	2, 162	1,901	737	2,878	2,108	2,627	3,940	1.666	4,106	986	3,624	314	2,710	12,530	17,225
AVI	143	38	20	70	47	163	212	94	231	78	294	14	108	600	911
ATZ ATZ	48 120	24 104	14	218	41 195	339	134 510	49 230	133	57	231 548	11 24	160	323 1,184	632 1,885
Å¥4	103	84	34	117	87	130	179	79	157	149	153	14	86	581	697
A¥5	29	60	100	244	198	982	560	172	428	85	318	22	169	1.594	1,773
A¥6	57	52	23	127	103	168	248	91	238	102	304	12	121	607	1,036
AN7 AN8	313	135	58 17	235	174	339	550	215	479	113	386	49	370	1,399	2,017
ATO	354	581	198	589	39 524	105 590	163 867	71 525	196 1,149	65 297	1,095	108	110 593	413 3,044	4,426
Sub-total	1,243	1,116	511	1,692	1,409	2,900	3,422	1,526	3,435	988	3,594	268	1.797	9,745	14,168
<u></u>	181	46	40	70	- 49	104	128	165	133	84	191	6	41	656	582
BU	42	203	150	236	141	120	140	75	164	17	58	7		700	690
GRAND TOTAL	8,021	5,232	2,454	8,616	6,285	11,036	14,943	6,779	15,400	3,936	13,720	1,074	7,902	44,693	60.734

TABLE C. 1-3 LAND OWNERSHIP IN THE PROJECT AREA BY DEHSTANS IN 1988

		٠ ـــ		ন্ত	123	1,823	339	8.015	887	4.370	8.235	3.852	3, 623	2,232	2,319	3.044	5,284	7,384
		[011]			22		-¢		0			. E.						
				Ξ	203	1.21	2,345	4.384	1.27	2,531	3,638	2,448	2,551	1,570	1,513	1,581	3.773	5,250
	•		۲.	(2)	12	208	363	401	335	235	372	212	123	8	253	375	215	288
Grand Total	Orchard	pu	Nursery.	~	83	842	843	87	88	1,187	5.2	358	11	234	888	288	92	
Land	<u>5</u>		×	3			ļ	1,928	2,183				1,017				.03	2,744
۵	<u>.</u>			ર	118	,617	4.02B	5, 324	9,350	3,801	8.045	3.611	3, 418	2.134	2:033	¥29.	4.771	3, 636
	Agr leul-	të e	Land	3	581	1.177	259	504	385				505	241	30,	87	729	8
	-₹	-			0		لنعا		_10_	2.392	3,564	2,410	_6_			1,487	_ri_	2 000
超		101		3		£\$	377	83.	371	210	405	ន្ទ	82	243	488	9	388	488
9.		<u>,</u> 2		3	0	2	11	22	53	12	2	∞	#0	=	22	22	=	8
# #	charc	pu	Kursery	(2)		22	127	97	81	12	=	20	80	80	18	225	25.	628
Nore than 10.0	aricul- Orchard		ξ.	3	0	2	7	ĭ	LO	*>	12	ស	10.	2	=	Ħ	0	15
More	<u>.</u>	ture	Land	23	0	13	252	878	273	385	293	g	187	185	[2]	187	533	187
	- i		-3	3	D	2	10	8	12	12	53	∞	**	Ξ	2	=	=	8
		Tota!		ŝ	19	140	3	50	. Q	382	707	27.	83	173	<u>:</u>	83	338	83
2	-	<u></u>		3	-	52	75	78	135	.83	122	47	ಕ	2,1	13	1	53	82
- 10.0 ha	Orcherd	Puq	Nursery	(2)	8	22	8	88	23	27	41	15	23	os.	=	S	12	2
		- i	2	ε	-	83	23	ű	<u>6</u>	43	38	8	58	=	83	25	용	<u>త</u>
5.0	Er [cu]-	ture	Land	$\widehat{\mathbf{S}}$		901	212	437	91	88	878	257	81	88	11	Ē	320	£45
	4			3		25	75	175	138	1 72	122	47	<u>ਲ</u>	8	8	77	88	82
		ā		3	ß	₹	. 122	1, 238	860,	338	,354	935	818	408	381	1,283	375	. 357
		Total		3	-	83	329 11	348	2 118	230	(10)	289	237	128	105	212	273	101
- 5.0 ha	ard.		er.	છ	0	33	82	8	82		ည္သ	\$	33	7	::	3.	12	82
2	Orchard	and	Nursery	3	. 0	8	178	233	0,0	197	102	153	180	SS SS	77	122	201	273
3.0	÷				ĸ	35.7	1, 107	1,188	2.018	343	302	879	785	383	348	710	826	1.274
·	Agricul-	ture	Land	(2)		ļ		<u> </u>	2									
	₹			3	53	113	323	388	8 818	233	107 8	12	233	128	104	3 212	3 273	9 403
		Total		ଞ	- 14	428	134	.33	2,088	302	1,508	1,004	950	458	474	558	1,208	1,719
		٥	ĺ	ε	60	195	514	840	037	408	830	455	377	237	218	280	244	803
3.0 ha	5		- 2) kzy	1	35	82	82	15	28	87	37	23	-1	91	3.4		б
.3	Agricul- Orchero	ů	Wurser)	γw	. es	821	203 5	385 8	39.4	225	3 878	204 3	187	12	138	127 2	383 5	7 69
2.0	1		-24.		12	387	27	334 3	900	855 2	444 3	878	108	7.17	459	533 1		1 630
	5	5	Land	(2)	6 0	·	1.047										1,155	
				3		7 133	1 214	888 2	858	807 6	8 740	324.55	1 377	22.5	8 218	2 258	2 548	8
1		Total		8	80	557	354	1,482	2,438	1,089	1,748	1,116	1,101	808	528	602	1,842	2,258
		è		3	87	447	748	.383	268	838	2,008	878	870	211	420	£73	285	755
É	<u>.</u>		č	2) (2	- 4	23	2	58 1.	61 1,	84	85 2.	34	30	o)	13	22	77 h.	20 1
- 2.0	Orchard	Pag.	Nursery		23	_						~~~	_	00	—			
2			<u> </u>	3	2 19	515 219	228	079	35 588	17 351	11 433	38 232	3 388	14 139	22 22	177	20 705	71 858
~	-[0	2	ا چ	3			9,0	i, 19	2,235	1,047	1.781	1,036	1,073	674	523	929	1,600	
	Agricol-	t er	Land	8	8	£	ž	1, 152	1.923	\$ 4 5	.350	878	880	553	₹	507	1,290	1,748 2,171
\vdash				(3)	23	138	782	1.	708	30:	38	S S	384	202	17.1	220	531 1	778 }
		Total		i :	53	682	180	346	38	135 31	888	187	811	323 24	279 1	377 2	802 5	101
0.6 - 1.0 ha	- 1		ا ج	3		 _		<u> </u>	1,136		L	ļ	ļ					43 1,201
🙃	Agricul- Orchard	pus.	Nursery	8	2	52	22	72	7	82	22	Ø	142	1	0 12	8	83	
9.	ö		±	3	7 22	8	38	8 278	3 236	9 143	282	9 134	192 8	78 7	130	2 75	8 3.78	0 620
	2	tere	2	8	27	22	287	823	883	273 873	90	623	810 389	702	3 481	5 212	55	.208 730
	Ja .	\$	- France	3	15	8	158	738	130	883	745	495	Ē	334	8	385	735	_
#		7		වි	<u>s</u>	18	3	18	2	ಷ	g	£	Ē	4	82	SS.	18	233
Less then 0.5 ht		Total		3	3	18	213	3	25	3	1	ន្ទ	83	288	3	287	2	88 88
4	herd	P. T	irreery	8	19	6.9	11	<u> </u>	22	<u> </u>	-	LCP	<u> -</u>		Lä.	•	13.	2
88	-		-	3	2	8	5	🗄	18	165	22	121	88	22	.83	22	115	Lã.
١.,	- F	147.0	Land	8	55	8	286 222	524 127 447	2	*	=	77	182	19	15	5	2	<u> </u>
	VILLE Agricul-Orchard			Sub-tota1(1) (2) (1) (2)(1) (2)	133	3			9 29	ä	ä	8	Į.	å	212	53 53	8	744
1	CLIG	2002		tot.	100%	ZOCIAC	DATEORS	2000	DINCOS	DINDOS	LOOM	BHOOS	para	DIONG	110,00	DMO12	DNO33	YEOKO
L.,	# #	ದ		9	_ s	Ä	ā	ã	Ē	ā	5	ā	B	a	<u> </u>	B	Ē	8

TABLE C. 1 - 4 FARMING TYPES IN THE PROJECT AREA BY DEHSTANS

					~~~	~		-		·	-γ	_		·			-,			_						
00 0114g	FARMING	HOUSEHOLD(%)		100.0	83.2	79.3	88	78.7	87.0	88.0	6 88	87.9	78.2	84.3		88 0	78.5	75.5	82.6		88.7	78.9	73.5	76.0		82.4
	TOTAL	HOUSEHOULD		<del>о</del> ъ	441	2.069	2,455	3, 720	6.074	2.585	3.694	3 454	3, 533	28.014		3 085	1, 107	2,081	6.253		180	4.220	4.474	8.874		43, 141
	NON-FARMING	HOUSEHOLD			7.4	429	331	865	787	308	409	418	771	4,392		339	238	510	1,087		24	322	1.184	2.130		7, 609
	Subtotal	(1)+(2)		gs.	367	1.640	2.125	2,855	5,287	2,257	3,285	3.038	2.762	23,623		2.726	869	1.571	5,166		156	3.298	3.280	6,744		35, 533
- 1985		Landless (2)		)	234	547	285	386	633	324	238	345	432	3,437		874	265	925	2,064		81	1.278	1.031	2,370		7,871
BREAKEDOWN OF FARMING HOUSEHOLD - 1985	Part-Time	Sharing				21	139	376	660	303	364	342	847	3,052		747	725	781	2, 253		78	1,673	2,976	4,727		10,032
OHN OF FARMI	Full-Time	Sharing				12	94	271	305	143	132	155	132	1,244		30			30							1,274
BREAKEL	Non-resident	Landowner					ស	168	433	164	503	245	91	1,538	-			91	16						,	1,554
	Resident	Landowner (1)	c	7	133	1,093	1,839	2,469	4,648	1,933	3,047	2,691	2,330	20, 185		1,852	604	948	3,102		98	2,020	2,259	4,374		27,661
sehold	1986	P80	Ç.	7.7	346	1,521	2,607	4,690	6,346	2,547	3,903	3,441	3,162	28,575		2,650	2,214	2,318	7, 182		146	4,485	6,038	10,669		46,426
No. of Household	1985	MOA	o	D	367	1,656	2,208	4,134	5,647	2,877	3,866	3,459	3,142	27, 165		2,977	1,598	2,077	6,652	-	180	4,489	6,413	11,082		44, 893
REFERENCE CODES	-	Vehstan	-	OV.	DN001	DN002	DN003	DN004	DN005	900NG	DN007	DN008	DNOOS	Sub-total		DNO10	DN011	DN012	Sub-total		BU	DNO13	DNO 14	Sub-total	i	IUIAL

TABLE C. 1-5 FARMING TYPES IN THE PROJECT AREA BY IRRIGATION ZONES

REFERENCE CODES	No. of Hous				OWN OF FARMIN		- 1985				RATIO OF
Irrigation zone	1985 KOA	1986 P80	Resident Landonner (1)	Kon-resident Landovner	Full-Time Sharing	Part-line Sharing	landless (2)	Subtotal (1)+(2)	NON-FARMING Household	JATOT OJUOKSZUOH	FARXING ROUSEHOLD(X)
KVQ1	257	208	71	1			186	257	60	317	81.1
HKUZ	110	138	62				48	110	14	124	88.7
HWU3	168	173	133	4	6		49	182	39	221	82.4
Sub-total	555	519	266		6		283	549	113	662	82.9
1 1/1	296	294	182		4	12	110	292	70	362	80.7 88.8
HF2	1,296	1,638	1,133	5	45	91	122	1,256	159	1,414	80.3
H¥3	1,560	1,652	1,114	ļ	27	37	432	1,546	380	1,926 713	88.2
HN4 HVS	696 651	747 630	555 133	15	47 28	57 14	74	629 478	84 41	519	92.1
H¥6	561	550	303	13	13	28	45 59	362	35	397	91.2
Sub-total	5.060	5,511	3,720	37	164	239	842	4,563	769	5,331	85,6
Total of HV	5,615	6,030	3,986	37	170	239	1,125	5,112	882	5,993	85.3
KL1	52	61	42	19	6	10	4	46		46	100,0
KL2	195	229	100	. 3	23		18	118	54	172	68.6
KL3	2,138	1,948	1,069			731	510	1,579	577	2,156	73.2
XL4	1.828	1,712	654	<u> </u>	<b> </b>	873	370	1.024	315	1,339	76.5
115	920	1,275	425	16	ļ	355	203	634	138	772 701	82.1 72.0
XLB	1,101	1,055	322	ļ		534	183	505	196	5,186	75.3
Sub-total	6,234	6.280	2,612	44	29	2,503	1,294	3,906	1,280		
KR2	13	156	10		2	4		10	61	71	14,1
KR3	555	644	323	60	26	245	72	395	135	530	74.5
KR4	1,562	1,590	793			481	412	1,205	371	1,576	76.5 88.8
KR5 Sub-total	1,050 3,180	891 3,281	385 1,511	60	28	457 1,187	391 875	2,386	98 665	874 3,051	78.2
HEI	2,028	1,948	1,405	161	109	73	167	1,572	372	1,944	80.9
HES	723	818	504	57	45	36	74	578	123	701	82.5
HE3	1,082	1,138	801	173	67	17	116	917	112	1,029	89,1 84.7
HE4	925	1,042	566 655	126 80	79 52	58 337	153 85	719 740	130 300	1,040	71.2
HE5 Sub-total	6,250	6,635	3,931	597	352	521	595	4,526	1,037	5,563	81.4
Total of HE, KL, KR	15,664	16,196	8,054	701	409	4.211	2.764	10,818	2,982	13,800	78.4
AÉI	223	205	211	25		76	12	223	26	249	89.8
YES	248	266	273	38	6	36	35	308	22	330	93.3
AE3	2,562	2,558			8	553	341	2,361	467	2,828	83.5
AE4	2,366	2,129		8		537	817	2,288	351	2,639	86.7
AE5	1,334	1,375	985	31	62	227	164	1,149	269 155	1,163	86.7
AE6 AE7	1.221	1,106	877 683	31	30	259 378	131	1,008	121	912	
AE8	351	358	182		<del> </del>	. 51	38	220	41	261	84.3
AE9	867	907				489		515		810	84.4
AE10	617	589				245		401	92	493	
AE11	2,449	3,264	737			977	818	1,555	576	2, 131	73.0
Sub-total	13,359	13,877	7,927	190	235	3,828	2,892	10,819	2,215	13,034	83.0
AN I	555	554						458		481	
AT2	298	279						243			
ANS	1,188	1,118				127		1,130		1,319	
A¥4 A¥5	497 907	1,018				30 95		397 735			
118	596	589						527			
A\$7	1.329			89		135	175	1,167			88.8
A¥8	382	401			iš	28		360	21	381	94.5
ATS	3,231	3,297						3.018	721	3,739	80.7
Sub-tota)	8,983	9,184	7,177	610	431	1,272	858	8,035	1,243	9,276	1
AU BU	578 700				29	7 475		470 279			
GRAND TOTAL	44,899			T	1,274				1		82.

TABLE C. 1-6 PLANNED LAND USE BY IRRIGATION DISTRICTS AND ZONES (1/2)

(Unit: ha)

Grand	Total	3,751 3,751 3,751 1,905 1,049 15,086 15,086	3,495 1,813 2,707 2,209 445 815 2,001 13,485	374 490 3,017 2,686 2,664 348 623 1,065 11,287	392 426 1,060 2,910 692 5,480	2,284 1,266 2,448 721 2,327
	Total	269 1,829 479 253 293 189 137 67 3,816	285 285 393 393 129 349 2,377	237 74 602 713 530 57 157 264 2,634	92 61 174 481 185 993 6,004	1,360 573 774 129 638
	Sand Dune	00000000	0000000	00000000	000000	0 0 2 0 4 4
	Road	102 102 152 152 140 140 141 581	129 118 88 17 17 145 145	23 113 108 108 28 44 499	15 16 40 105 202 202 1,241	933 957 957
land	River	128 1137 168 103 49 49 151 705	155 1118 98 23 83 83 89 602	206 24 154 135 124 16 30 49 738	22 30 65 194 61 372 1,713	71 40 112 33 104
Non-Farmland	Village Area	1004 1396 103 103 103 81 83 83	330 127 270 202 202 35 55 1,192	286 274 182 182 25 153 171 171	1 15 67 151 96 332 2,498	76 39 39 308
~	Pond	800033200	0000000	21 186 1186 116 0 46 47 416	0 0 0 0 0 27 24 449	207 172 99 30 87
	Forest	1,487 89 21 21 0 0 0 0 0 1,706	0000000	00000000	41 0 0 0 0 14 14	956 289 43 0
	Waste Land	37 12 12 10 10 10 10 10	80000000000000000000000000000000000000	w0400000F	13 0 0 4 2 19 62	00000
	Total	685 1,922 1,883 3,125 1,612 860 791 338 11,216	2,855 1,528 2,199 1,816 372 686 1,652 11,108	157 416 2,415 1,973 2,134 291 466 801 8,653	300 365 886 2,429 507 4,487 24,248	924 693 1,674 592 1,689
	Orchard	49 30 22 22 135 55 55 48 88 36 375	34 24 11 12 88	044880vrr88	0 0 18 10 32 219	000000
pq	Upland Crop	13 1 0 106 0 1 0 0 0 1 123	000000	70000000 100000000000000000000000000000	20 0 τ ∞ 4.	00000
Farmland	Total	623 1,891 1,861 2,884 1,557 1,557 755 298 10,680	2,821 1,525 2,192 1,792 360 685 1,644 11,019	155 412 2,413 1,957 2,108 286 459 749 8,539	298 365 881 2,411 4,447 24,005	924 693 1,674 1,629
	Paddy Field V. Ground W.	467 106 222 223 42 62 62 925	360 94 86 86 0 0 28 4 572	0 42 42 38 724 724 60 60 1,090	0 20 860 860 54 934 2,596	114 372 308 196 226
·	Paddy Field Surface W. Ground W	623 1,424 1,755 2,662 1,531 1,531 693 693 9,755	2,461 1,431 2,106 1,792 360 657 1,640	155 412 412 2,371 1,919 1,384 280 399 529 7,449	298 365 861 1,551 438 3,513	810 321 1,366 373 1,400
	Sub-Dis./Zone	HW (I) /HW1 /HW2A /HW2B /HW2B /HW2B /HW4 /HW4 /HW6	HE (I) /HE1 /HE2 /HE3 /HE4 /HE5 /HE5A /HE5A	HB (II) /KL1 /KL2 /KL3 /KL4 /KL4 /KL5 /KL6 /KL6A /KL6B	HE (III)/KR1 /KR2 /KR3 /KR4 /KR4	AW (I) /AW1 /AW2 /AW3A /AW3B /AW3B
	District	HARAZ WEST TOTAL	HARAZ EAST Sub-Total	HARAZ EAST Sub-Total	HARAZ EAST Sub-Total TOTAL	AMOL WEST

TABLE C. 1-6 PLANNED LAND USE BY IRRIGATION DISTRICTS AND ZONES (2/2)

	: ::			Farmla	and					Z	on-Farm	land				7
District	Sub-Dis./Zone		Paddy Field		Upland	Orchand	Total	Waste	Poroct	Dong	Village	Pign	7 7 7	Sand	Total	Total
		Surface W	Surface W. Ground W.	Total	Crop	Oi citai u	A O Gal	Land	1.0762	n Orra	Area			Dune	1001	1000
Sub-Tota	Ta	4,270	1,216	5,486	0	98	5,572	53	1,288	595	635	360	304	229	3,474	9,046
AMOL	AW (II)/AW5		604	1,981	0	15	1,996	0	205	111	128	110	2.6	51		2,698
WEST	/AW6		102	1,140	0	55	1,162	0	0	က်	49	09	i S	0		1,374
	/AW7		79c	3,141	٠ <u>٠</u>	ς Ο α	3,236 7,236	4ı C	Ξ°	797 0	242 243 25.0	22.2	100 95	2 2 1		4,138
	/AW9	760	5 6/	762	2 C	65 7 63	791	01	0	7	3 63	3.5	2.4	•		525
	AW9A		636	2,188	0	46	2,234	8	26	158	250	126	124	147		3,067
Sub-Total		2,029	258 9.937	2,287	51	32 287 287	2,370	8%	0 676	45	123	127	118 85	132 448		2,935 15,784
TOTAL		14,010	3,453	17,463	29	373	17,903	66	1,530	1,106	1,529	1,067	919	677	6,927	24,830
AMOL	AE(I) /AE1	642	302	644	010	0 %	657	00	00	00	27	37	28 34 84	00	92 144	746
<u> </u>	/AE3A	٠	12	731	0	ঝ	733	16	0	0	8	127	38	0	261	994
	/AE3Aa		168	1,725	4.	30	1,769	ကျ	41	4,	207	310	35	216	914	2,683
	/AE3Ab /AE3B		o	20.7 004	00	27 67	506 006	<b>&gt;</b> C	96	9 5 7	72.	133 49	λ (ς 4 (ς	203 C	187	1,232
	:		156	595	0	ဖြ		0	0	0	2	28	31	0	22	673
Sub-Total		5,540	384	5,924	24	55	6,003	19	51	171	593	724	296	479	2,333	8,336
AMOL EAST	AE (II) /AE4 /AE4A	43 223	302	49 525	00	00	49 525	00	00	06	2002	243	263	00	.16 79	65 604
	/AE4B	2,303	330	2,633	0	34	2,667	0	70 0	114	206	140	132	00	662	3,329
	/AE5 /AE6A	1,520	138	1.519	0	<b>4</b> C-	1,526	0		62	113	827	78	<b>0</b>	340	1,866
1.00 1.00		921	6.5	1,013	0	. C) ž	1,013	0	0	200	90		9 10 10	0	288	1,301
Dan-10ca	•	6,491	888	ر,ج/y	<b>-</b>	c <del>7</del>	1,424	<b>&gt;</b>	2	33U	970	AT4	0,0	<b>-</b>		3,100
AMOL	AE (III)/AE7	1,569	286	1,855	00	0 4	1,855	00	386	181 83	137	109 77	98 c	0 6		2,473
TOWN	/AE9	439	774	1,213	0	† <del>,</del>	1,214	0	10	142	136	73	62	0		1,637
	/AE10	44	1,068	1,112	0	<u>_</u>	1,119	0	0	224	97	70	5 5 6	0		1,569
	/AE 11		20 c	443	<b>-</b>	χ <u>,</u> ι	401 1 091	<b>ə</b> c	<b>-</b>	17.1	9 7 0 7	4 6	3 5	> 0		1 969
	/AE11B	3.245	646 646	3,014	) <b>C</b>	122	4,013	0	20	402	875	232	203	393	125	6,138
		_	3,514	10,534 23,837	24	159 259	10,693 $24,120$	0 61	145 266	1,202	1,412 2,581	628 1.762 1	541 214	393 872		15,016 32,537
PROJECT /	PROJECT AREA TOTAL	64,257	11,760	75,985	238	1,264	77,487	285	3,545	3,286	7,291	5,247 3	,955 1	,549	3 44	02,645
Amol Urban	g			1.813	26	115	1,954	40	63	тĊ	1,461	297	90		1.895	3,849
Babol Urban TOTAL	q			1,052 2,865	$\frac{1}{27}$	20 135	1,073 3,027	0 40	0 87	211	1,640	45 342	76	00	442 2,337	1,515 5,364
GRAND TOTAL	TAL			78,850	265	1,399	80,514	325	3,547	3,502	8,929	5,593 4,	,052 1	549 2	27,495 1	08,009

TABLE C. 1 - 7 PLANNED LAND USE BY SUB-DISTRICTS

					(Unit	:ha)
<u>District</u>	Sub-District		a	Paddy	<u></u>	Farm Land
	and Zone	<u>Area</u>	Surface W.	Ground W.	<u>Total</u>	Total
HARAZ	HW(I)/HW1	954	623	0	623	685
WEST	/HW2A	3,751	1,424	467	1,891	1,922
	/HW2B	2,362	1,755	106	1,861	1,883
	/HW3	3,678	2,662	222	2,884	3,125
	/HW4	1,905	1,531	26	1,557	1,612
	/HW5	1,049	769	42	811	860
\$	/HW6 /HWU	928 399	693 298	62 0	755 298	791
TOTAL	711110	15, 026	9,755	925	10.680	$\begin{array}{c} 338 \\ 11,216 \end{array}$
		10,020	<u> </u>	020	40.000	11.210
HARAZ	HE(I)/HE1	3,495	2,461	360	2,821	2,855
EAST	/HE2	1,813	1,431	94	1,525	1,528
	/HE3	2,707	2,106	86	2,192	2,199
	/HE4	2,209	1,792	0	1,792	1,816
1.1	/HE5 /HE5A	445 815	360 657	0	360	372
* :	/HE5B	2,001	1,640	28 4	685 1,644	686 1,652
Sub-Tot		13, 485	10,447	572 ⁺	11,019	1,032 $11.108$
HARAZ	HE(II)/KL1	394	155	0	155	157
EAST	/KL2	490	412	0	412	416
	/KL3	3,017	2,371	42	2,413	2,415
	/KL4	2,686	1,919	_38	1,957	1,973
. *	/KL5	2,664	1,384	724	2,108	2, 134
	/KL6	348	280	6	286	291
	/KL6A /KL6B	623 1,065	399 529	60	459	466
Sub-To		11, 287	7,449	$\frac{220}{1,090}$	749 8,539	801 8,653
HARAZ	HE(III)/KR1	392	298	1,000	298	300
EAST	/KR2	426	365	ŏ	365	365
	/KR3	1,060	861	20	881	886
	/KR4	2,910	1,551	860	2,411	2,429
6 1 m	/KR5	692	438	54	492	507
Sub-To	tal	5,480	3,513	934	4,447	4,487
TOTAL AMOL	AW(I)/AW1	30, 252	21,409	2,596	24,005	24, 248
WEST	/AW2	2,284 1,266	810 321	114 372	924 693	924
	/AW3A	2,448	1,366	308	1,674	693 1,674
	/AW3B	721	373	196	569	$59\hat{2}$
	/AW4	$2,3\overline{27}$	1,400	226	1,626	1,689
Sub-To		9,046	4,270	1,216	5,486	5,572
AMOL	AW(II)/AW5	2,698	1,377	604	1,981	1,996
WEST	/AW6	1,374	1,038	102	1,140	1,162
•	/AW7	4,138	2,579	562	3, 141	3, 236
	8WA\ ewa\	647 925	405 760	73 2	478 762	542 791
	/AW9A	3,067	1,552	636	2, 188	2, 234
	/AW9B	2,935	2,029	258	2, 188	2, 370
Sub-To	tal	15,784	9.740'	2, 237	11,977	12,331
TOTAL	i	24.830	14,010	3,453	17,463	17,903

Distant	a t b				(Uni	t:ha)
<u>District</u>	<u>Sub-District</u>	<u>Gross</u>	<u> </u>	<u>Paddy</u>	<del></del>	Farm Land
	and Zone	<u> Area</u>	<u>Surface W.</u>	<u>Ground W.</u>	<u>Total</u>	Total
AMOT	17777 / 1774				-	
AMOL	AE(I)/AE1	746	642	2	644	654
EAST	/AE2	915	738	30	768	771
	/AE3A	994	719	12	731	733
*	/AE3Aa	2,683	1,557	168	1,725	1,769
	/AE3Ab	1,232	557	0	557	569
	/AE3B	1,093	888	16	904	906
	/AE3C	673	. 439	156	595	601
Sub-Tot		8,336	5,540	384	5,924	6,003
VWOL	AE(II)/AE4	65	43	6	49	49
EAST	/AE4A	604	223	302	525	$5\hat{2}\bar{5}$
	/AE4B	3,329	2,303	330	2,633	2,667
	/AE5	2,020	1,620	20	1,640	1,644
	AE6A	1,866	1,381	138	1,519	1,526
	/AE6B	1,301	921	92	1,013	ĩ, 013
Sub-Tot		9,185	6,491	888	7,379	7, 424
VWOL	AE(III)/AE7	2,473	1,569	286	1,855	1,855
EAST	/AE8	1,289	634	372	1,006	1,010
	/AE9	1,637	439	774	1,213	1,214
	/AE10	1,569	44	1,068	1.112	1,119
	/AE11	547	359	84	443	461
	/AE11A	1,363	730	284	1,014	1,021
	/AE11B	6, 138	3,245	646	3, 891	4,013
<u>Sub-Tot</u>		15,016	7,020	3,514	10,534	10,693
TOTAL		32,537	19,051	4,786	23,837	24, 120
						21,120
<u>GRAND T</u>		02,645	64, 257	11,760	75,985	77,487
(Except	Urban Area)					

TABLE C. 2 - 1 PRODUCTION OF MAIN CROPS IN EX-AMOL & BABOL SHAHRESTANS SINCE 1980/81

	SINCE	1980/81							•
And the second s		Wheat			Barley			Rice	
Years	Land	Yield	Product	Land	Yield	Product	Land	Yield	Product
AHOL SHAHRESTAN	:		-				Land	11010	rivuuct
1980/81	3,500	2.4	8.4	400	2.2	0.9			
81/82	3,600	1.6	5.9	450	1.8	0.9	48,000	4.1	196.8
82/83	1,944	1.7	3.4	450	1.8	0.8	43, 427	4.0	172.2
83/84	2,700	2.5	6.9	500	1.6	0.8	52,000	5.1	264.6
84/85	1,750	2.1	3.6	: 700	1.8	1.3	55,000	6.1	335.5
85/86	1,400	2.1	2.9	700	1.8	1.3	55,000	6.1.	335.5
86/87	1,300	2.1	2.7	500	1.8	0.9	58,000	6.1	353.8
87/88	400	1.8	0.7	350	1.8	0.6	58,000	4.1	232.0
88/89	800	2.0	1.6	35 <b>0</b>	2.0	0.7	55, 200	6.4	353.3
89/90						•	65,000	5.4	349.2
* *							0,0,000	0.4	040.2
BABOL SHAHRESTN				N 4			4.1	•	
1980/81	7,361	2.5	18.4	500	1.3	0.6			
81/82	7,361	2.5	18.4	500	1.3	0.6	55,000	4.4	242.0
82/83	7,000	2.8	19.6	600	1.3	0.8	43, 427	3.0	129.3
83/84	5,500	2.9	16.2	550	2.0	1.1	60,000	4.5	270.0
84/85	5,149	2.5	12.9	480	2.0	1.0	62, 561	5.0	312.8
85/86	5,000	2.5	12.5	450	2.0	0.9	65,000	5.0	325.0
86/87	5,000	2.2	11.0	450	2.0	0.9	67,000	6.0	402.9
87/88	2,250	2.7	6.1	348	3.0	1.0	68,000	4.4	300.3
88/89	2,000	3.7	6.5	208	3.0	0.6	65,000	4.6	368.6
89/90				**			65,000	5.4	349.2
	* *						,	0.4	040. L
Notes: Land:	ha	Yield:	ton/ha	Produ	ction:	1.000 tons			

TABLE C. 2 - 2 LAND USE, CROPPING AREA AND PRODUCTION OF MAIN CROPS IN THE PROJECT AREA BY DEHSTANS

			Yield				6,000	2,681		3,025			1,438	2,716	1,376	2,100		1,552			954	954	2,052
	88	Theat	Production				300	75,823		18,300			1,182	95,605	11,153	56,901		68,054			1,240	1,240	164,839
	CROPS - 198		Area				0.05	28.28		6.05			0.82	35.20	16.75	27.10		43.85			1.30	1.30	80.35
	ha) OF MAIN		Yield			10,000		1,511		2, 171				1,885	382	2,305		2,005					1,963
	CROPPING AREA (ha), PRODUCTION (kg) AND YIELD (kg/ha) OF MAIN CROPS - 1988	Barley	Production			3,000		17,956		15,200				38,156	8,105	64,772		72,877					109,033
	TION (kg) A		Area			0.30		11.88		7.00				19.18	8.25	28.10		36.35					55.53
	(ha), PRODUG		Yield	1.886	3,924	3,994	3,754	4,979	3,683	3,714	3,617	2,855	3,406	3,779	3,067	2,219	2,351	2,582	2,791	3,879	3,203	3,467	3,576
	ROPPING AREA	Rice	Production	21.404	456, 190	6,061,122	16,694,821	19, 139, 190	27,790,566	13, 737, 223	12,449,511	6,880,779	9,752,703	112,983,509	6,203,207	3,376,679	4,348,520	13,928,406	990,089	10,662,779	11,710,122	23, 071, 957	149,983,872
	)		Area	11	116	1,518	4,447	3,844	7,546	3,698	3,442	2,410	2,863	29,896	2,023	1,522	1,850	5,394	251	2,749	3,656	6,656	41,945
		Total	Cropped	1	128	1,803	6,115	5,522	12, 198	4,064	3,008	2,498	2,827	38,172	2,302	3,018	2,284	7,805	351	3,200	4,074	7,625	53,401
	1988 (ha)	Crops	Irrigated	9	116	1,530	3,700	3,880	7,804	3,786	2,881	2,390	2,879	28,872	2,143	I,589	2,046	5,778	263	2,838	3,674	6,774	41,525
	LAND USE IN 1988 (ha)		Total	9	116	1,602	3,704	4,218	7.812	3,819	2,880	2,391	2,885	29,433	2, 193	2,781	1,985	6,959	263	2,852	3,711	6,826	43,217
		Orchard	Nursery	•	12	201	354	336	327	245	129	107	114	1,826	109	238	299	646	88	348	363	799	3,271
REFERENCE	CODES		Dehstan	AU	DNOO1	DN002	DNOO3	DN004	DN005	DNOOE	D0007	800NG	DNO09	Sub-total	DN010	DN011	DN012	Sub-total	BU	DNO13	DN014	Sub-total	TOTAL

	Others	Area		0	20.61	0.72	28.43	0.47	0.50		3.81	0.34	54.98		0.02	10, 18	0.00	10.21		6.77	2.07	8.84	74.02	
		Yield			6,555	2,231	5,482	6, 138	3,301			1,240	5,107		7,983	1,365	6,429	2,048		2,424	1.978	2,261	4,523	
	Alfalfa	Production			389,623	88,357	1,017,581	18,721	74,505			160	1,588,247		1, 207	18,921	12,602	32,730		96,318	45,591	141, 909	1,763,886	
		Area			59.44	33.70	186.32	3.05	22.57			0.13	311.21		0.15	13.86	1.96	15.97		39.73	23.04	62.77	389.96	
1988	:	Yield							15,000			16,667	16,613			1,667	14,000	3,429		1,287		1,287	4,581	
CTION (kg) AND YIELD (kg/ha) OF MAIN CROPS (2) - 1988	Melon	Production							15	-		200	515			90	102	120		130		130	765	
/ha) OF MAII		Area							0.001			0.03	0.03	:		0.03	0.01	0.04		0.10	-	0.10	0.17	
D YIELD (Kg		Yield					7,156	6,329	7,877	2,858	3,370	5,058	5,539		4,581	4,233	5,030	4,436		5,842	5,494	5,661	5,388	
UCTION (kg) AN	Onion	Production	:				11,879	4,498	3, 188	2,101	2, 181	5,236	29, 143		2, 181	10,898	3,811	16,890	-	25,811	26,428	52,239	98,272	
(ha), PRODI		Area					1.66	0.71	0.40	0.74	0.65	1.05	5.20		0.48	2.57	0.76	3.81		4.42	4.81	9.23	18.24	
CROPPING AREA (ha), PRODUC		Yield				150	4,301	387	4,000	344	287	1,061	702		1,048	2,420	1,674	1,754		1,141	2,400	2,212	1,149	
CR	Pulse	Production				150	1,470	1,049	100	141	425	2,527	5,862		11	651	3,587	4,249		362	4,355	4,717	14,828	
		Area Pr				1.00	0.34	2.71	0.03	0.41	1.48	2.38	8.35		0.01	0.27	2, 14	2.42		0.32	1.81	2.13	12.90	
REFERENCE CODES		Denstan	AU	DN001	DN002	DNOO3	DN004	DN005	900NG	DN007	800ND	DN009	Sub-tota]		DIONG	DNO11	DN012	Sub-tota]	ne-	DNG13	DN014	Sub-totai	TOTAL	

	Others	. of Tree		807	1,735	512	4,178	9,567	13,428	542	1,844	2, 128	34,841	:	412	3,403	1,160	4.975			5,521	4,058	9,579	49,395	
8861 - Sd	Orange	Yield No.	 7.0	12.8	17.2	20.6	13.2	14.8	16.2	16.0	14.0	16.7	16.2		11.9	12.7	25.4	18.4		5.8	10.7	20.4	16.3	16.5	
		Production	1,102	18, 785	553,770	887,519	414,845	812,656	827,357	445,412	236, 154	660,894	4,858,494		114,730	180,602	513,028	808,360	:	8,620	304,379	855,750	1,168,749	6,835,603	
		NO. P	157	1,471	32, 166	43, 139	31,333	55,633	51,161	27,849	116,91	39,597	289,417		9,664	14, 175	20, 201	44,040		1,493	28,472	41,893	71,858	415,315	
	Mandarin	Yield	 6.4	13.3	9.5	22.5	12.5	12.5	10.8	11.2	13.7	23.9	14.7		10.1	9.8	18.0	14.3		3.8	10.8	12.7	11.6	14.2	
KE) AND YIELD (Kg/tree) OF MAIN PERENIAL CROPS - 1988		Production	742	17,296	275,634	1,099,756	387,746	430,466	365,079	146,813	95,508	289, 581	3, 108, 621		78, 358	120,175	348,878	546,011		4,934	210,098	318,069	533, 101	4, 187, 733	
ee) OF MAIN		NO.	116	1,302	28,919	48,800	30,983	34,556	33,851	13,144	6,983	12,120	210,774		7,587	12,317	18,333	38,237		1,285	19,501	24,986	45,772	294,783	
/IELD (kg/tr	门道	Yield				5.9	10.8	10.3	18.4	10.3	12.8	22.1	8.0		8.4	10.8	3.1	8.9		3.7	7.3	12.4	8.5	8.3	
		Production				5,721	772	1,827	1,101	124	337	1,085	11,027		356	2,512	145	3,013		498	1,291	2,698	4,485	18, 525	
E, PRODUCTION		No.				696	73	177	. 67	12	31	49	1,378		26	238	1.5	339		134	176	218	528	2,245	
NO. OF TREE	Sweet Lemon	Yield			9.4	17.2	14.3	17.8	5.3	11.4	11.5	37.3	12.4		12.6	9.1	18.7	12.5		8.8	15.8	9.31	15.6	13.3	
		Production			2,319	12,007	13,608	28,872	23,806	3,481	4,122	31,388	119,603		4,987	7,709	8,954	21,650		385	26,037	43,554	69,986	211,239	
		. No.			362	697	951	1,622	4,480	306	360	841	9,619		397	850	480	1,727		46	1,643	2,790	4,479	15,825	
REFERENCE CODES		Dehstan	ΑU	DNOO1	DN002	DNOO3	DNOO4	DN005	DNOOE	DN007	300NG	500NG	Sub-tota]		DNO10	DNO11	DN012	Sub-total		Bü	DNO13	DN014	Sub-tota!	TOTAL	

TABLE C. 2-3 LAND USE, CROPPING AREA AND PRODUCTION OF MAIN CROPS IN THE PROJECT AREA BY IRRIGATION ZONES

REFERENCE CODES Irrigation	Orchard	AND USE IN	1988 (ha)	Total		CROPPING AREA	(ha). PRODUC	TION (kg) AND YIELD (kg/ha) OF MAIN CROPS - 1988							
zone	hursery	Total	Irrigated	Cropped	Area	Production	Yield	Area	Sarley Production	Yield	Area	Wheat Production	Yield		
								7,02	11044041011		, Al Ca	Troduction	11610		
NTU1	6	60	60	66	60	233,095	3,894				: :				
HWU2 HWU3	16	56 123	56 123	63 139	56 140	223,095 397,471	3,955					·			
Sub-Lotal	29	239	239	268	256	853,661	2,839 3,331								
						3.00	0,00.			2 - 3-4					
HYI	55 [	259	204	315	206	820,755	3,993	0.30	3,000	10,000					
H#2	168 250	1,960 2,188	1.948 2.182	3,304	2,857	10,602,877	3.711				0.05	300	6,000		
H14	44	951	947	2,817	1,990 948	8,108,289 3,065,856	4.074 3.234								
855	49	589	577	638	544	1,782,243	3,276				2				
KY6	61	698	696	759	680	2,262,310	3,325								
Sub-total	627	6.646	6,554	9,110	7,226	26,642,330	3,687	0.30	3,000	10,000	0.05	300	6,000		
Yotal of HT	656	6.885	6,793	9, 378	7,482	27,495,991	3,675	0.30	3,000	10,000	0.05	300	6,000		
KLI	· · · · i j	85	85	88	86	511,877	5,928		<del></del> [						
KLZ	3	32	32	.67	32	145,760	4,576			77 9 9					
KL3	146	1,668	1,658	1,814	1,639	5,945,703	3,628								
KL4	154	1.139	1,124	1,293	1,090	3,445,638	3,162				0.30	240	800		
KL5 KL6	165	628 544	624 546	716	609 539	1,892,345	3,107					V 700 A			
Sub-total	558	4,097	4,069	4,687	3,995	1,793,434	3,326	<del></del>			1.00	1,000	1.000 95		
			l	,,,,,,	7,000	14,104,151	3,100			·	1,30	11640	339		
XR2	36	198	190	226	192	550,927	2,870								
XR3	50	695	685	1,172	688	3,029,510	4,405	3.30	2,203	668	83.0	442	650		
KR4 KR5	50 I 20	984 422	976 419	1,031	934	3,809,271	4,080						<u> 1997 -                                 </u>		
Sub-total	158	2, 298	2,271	2,871	2,225	8,887,363	3,638 3,994	3.30	2,203	668	0.58	442	650		
HE1	84	1.884	1.876	2,855	1,910	7,879,821	4, 128	0.10	300	3,000	0,05	300	8,000		
HE2	33 1	940	637	965	644	2,359,984	3,662								
HE3 HE4	156 1	1,563	1,502	2.623	1,515	7,027,451	4,640								
RE5	56 I	1,174	1,174 990	1,574	1,122 991	5,504,389	4,906	8.32	15,303	1,839	11.14	19,880	1,785		
Sub-total	371	6,583	6.238	9,063	6, 182	4,297,616 27,069,281	4,336	0.16 8.58	150 15.753	938 1.836	16.46 27.65	55,501 75,681	3,372		
lotal of HE,	1.085	12,978	12.578	16,621	12.402	49,691,381	4,007	11.88	17,956	1,511	29.63	77,363	2.611		
XL, KR AEI	27	583	582	821	200	1 100 1111									
AEZ	17	481	431	568	399 489	1,463,414	3,666	4.00	8,000	2,000	6.00	18,000	3,000		
AE3	141	2,688	2,877	3,364	2.636	8,818,818	3,346				9.60	4, 151	432		
AE4	40 [	1,632	1.631	1,774	1,624	5,694,641	3,506				0.00	4.107	400		
AE5	50	1,719	1.716	2,620	1,625	5,744,708	3,535								
834 734	86 j	1,210	1,188	1,334	1.186	3,876,751	3,268						11.		
838	10	228	228	1,639	1,234 221	3.927.467 673.614	3,183	0.10 8.25	50 8,105	500 982	2 75	2.050	007		
YES	52	2,263	983	2,314	905	2,725,235	3,011	9. 43	6, 103	200	7.75	7,653	987		
AE10	61	476	475	536	474	1,458,992	3,076								
JE11	380	2,367	2,384	2,747	2.146	4.622.145	2, 154	28.00	64,722	2,311	27.10	56,901	2,100		
Sub-total	1,084	14,782	13,592	17,956	12,940	40,947,889	3,164	40.35	80,877	2,004	50.45	86,705	1,719		
, WI	3	214	214	217	214	412,950	1,931					<del></del>	-		
	5	143	143	148	141	335,146	2,370						<del></del>		
AW3	35	618	621	653	629	1,566.024	2,491								
AW4	22 23	515 1,033	1,033	537	507	1,580,236	3,114				,				
YAR	31	761	761	1,057	1.045	2,674,104 6,740,741	2,559 5,120		<del></del>		<del> </del>		<u> </u>		
AW?	34	960		994	995	3,269,388	3,286				<del></del>				
4¥8	48	640	630	689	627	2,556,355	4,079	3.00	7,200	2,400					
149	172	2,801	2,797	2.973	2.774	9,226,983	3,328				0,22	531	2,39		
Sub-total	373	7,686	7,673	8,059	8.249	28,361,927	3,438	3.00	7,200	2,400	0.22	. 531	2,39		
AU BU	62 91	581 306	581 306	991 397	582 291	2,640,987 845,697	4,539 2,907								
GRAND TOTAL	3,271	43,217	41.525	53,401	41,945		3,576	55.53	109,033	1,963	80.35	164,899	2,05		

REFERENCE CODES			CROPPING ARE	i (ha) PRO	DUCTION (kg)	AND YIFLD (F	e/ha) 05 VI	IN COURT (5)	- 1029				
Irrigation		Pulse	ONOTE IND AND	1 (1187) 110	Onton	ALD TICED (K	BY HAY OF MA	Kelon	- 1300	<del></del>	Alfalfa		Othere
zone	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Ares	Production	Yield	Others
					7110101011			Troudction	11610	VICE	riodaction	11610	Area
RVUL		i			1 2 2 2 4				1				0.10
HTU2											<u>-</u>		0.10
H¥U3		5.4								· · · · · · · · · · · · · · · · · · ·			
Sub-total		·											0.10
040 1014	1		i									l	0.10
891				:									
K#2							<del></del>			0.40	3,500	8,750	0.30
H#3	1.00	150	150				ļ			29,30	26,554	906	0.30
HE4	1.00	190	130	<del></del>						56.85	385, 123	6,774	20.31
	0.10									12.40	63,003	5,081	0.42
H¥5	0.40	121	302							3.00	60,000	20,000	
HT6	0,02	70	3,500	·		l				2.50	1,251	500	0,34
Sub-total	1,42	341	240							104.45	539.431	5,164	21.67
]							,	]				7111	
Total of HW.	1.42	341	240			·	i			104.45	539,431	5,164	21,77
and the state of	1 1 4	19 19 19									000,101	0,107	
KLI		<u> </u>	7.1	·····		·		f		~	<del>                                     </del>		
XL2											<del> </del>	<del></del>	<b> </b>
XL3	0.07	150	2,308	0.78	6,388	8,227	· · · · · · · · · · · · · · · · · · ·	<del> </del>		13.10	<del></del>		
KL4	0.04	120	3,000	1.57	6,366	4,303	<del> </del>	<del></del>			29,424	2,246	1.48
KL5							·	<del> </del>	ļ	1.24	6, 173	4,988	1.47
	1.13	2,435	2,160	1.34	7,199	5,370	ļ.,	ļ	ļ	1.50	2,710	1,806	0.92
KL6	0.48	1,174	2,444	0.91	6,388	7,045	L <b></b>			19.64	31,607	1,609	1.46
Sub-total	1.71	3,879	2,265	4.60	26,750	5,817	l	1		35.48	69,914	1,970	5.33
1 · ·		ļ <u></u>					<u> </u>	1		·			
XR2	0.14	1,240	8,857	0.64	6,404	10,076					1		
XR3	0,04	34	850	0.51	1.907	3,776				73.31	543,296	7,411	0.04
I.R4	0.03	30	1,111	3.24	17,383	5,370	0.101	130	1.287	25.89	53.814	2,079	3.37
KR5	0.02	25	1,667	0.32	2,561	8,079			2141,1	3,16		5,449	0.07
Sub-total	0.22	1.329	5.986	4.69	28, 255	6,019	. 0.101	130	1,287	102.36		8,002	3.48
	-	.,,,,,	0,000	4.00	20,200	0,013	0.101	100	1,201	102.30	014,504	0,006	3.40
HEI	0.80	360	449	0.29	0 100	0.51	<del> </del>						
HE2	0.00	300	445		2,430	8,511	ļ			3.42		4,299	0.08
	A 10		1.050	0.03	120					7.30		1,240	
HE3	0.40	500	1,250	0.28	1,858	6,749				18.60	49,832	2,679	0.04
HE4	0.36	236	661	0.39	2.810	7,139		·		31.70		5.711	0.86
HE5	0.01	20	4,000	0.41	2,972	7,299				45.11	204.209	4,527	27.45
Sub-total	1.58	1,116	714	1.39	10.190	7,323				106.13	458,804	4,323	28.44
		•											
itotal of HE,	3.50	6,324	1.608	10.68	65, 195	6, 102	0.101	130	1.287	243.97	1,143,052	4,685	37.25
KL KR												.,	
AEI									i				0.02
YES										0.20	1,050	5,250	0.00
YE3	2.68	1,281	478	0.38	2,311	6, 154				0.05	1,000	20,000	0.49
AE4	0.05	20	400	0.11	2	14				0.00	1,000	20,000	
, KES	0.26	79	304	0.11		14	<del></del>	<b>}</b>	<del>-</del>				0.01
AE6		ĭ		0.10		0.000	·	<u>: '</u>		0.30	1,500	5,000	0.01
AE7	0.00		2,000	0.42	1,610	3,836	· · · · · · · · · · · · · · · · · · ·			0.15	1,207	7,983	0.00
	0.02	64	3,168	0.13	2,228	16,516				0.00	17	11,333	0.01
834	0.00	5	5.000	0.04	467	10,447						L	0.01
<u>634</u>	0.50	847	1,683	2.61	9, 183	3,521		<u> </u>			l		0.01
0/3/	0.03	32	1,181	0.20	1,387	8,942							0.05
AETT	2.25	4,083	1,816	1.28	5,355	4,168	0.035	120	3,429	15.82	31,506	1,991	10.18
													1
Sub-tota;	5.79	6,412	1,107	5.18	22,543	4,354	0.035	120	3,423	16.52	36,280	2,196	10.79
						1 .,507	1		5,125		[	1,.00	,
181						f	·	<del> </del>			<del> </del>		l
AV2				0.02	50	<del>                                     </del>							[
AT3				0.02	30	ļ ————	<b></b>				<del>                                     </del>		ļ <del></del>
A¥4	0.01		0.000					ļ					<b> </b>
	0.01	20	2,000	0.70	1,751	2,501	<b> </b>	ļ			ļ <u>-</u>	ļ	ļ
ANS	0.03	20	667	0,20	668	3,420	<u> </u>		· · · · · ·		<u></u>		0.41
A46		<u></u>	ļ	0.02	300						<u> </u>		0.00
A\$7	1.35	375	278	0.20	500	2,500		L					
AW8	J	L		0.03	407	I	0.001		15,000	12.75		647	0.10
A¥9	0.81	1,336	1.656	1.14	6,407	5,622	0.030		16,667	0.33		790	3.69
!	1				I	1							1
Sub-total	2.20	1,751	797	2.36	10.083	4,266	0.031	515	18,613	13.08	8,513	651	4.20
[ ]	l	1	ı	1	1	1,235	1 2.331		.,,,,,,	,	1 5,5,0	l 53,	""
AU .	<del> </del>	<del>                                     </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·	7.55	24,008	3,180	0.00
BU	<b>—</b>	<del> </del>	<u></u>	0.02		<del> </del>	I	<del> </del>					
		<u> </u>	ł	U.UZ	451	<del></del>	<del> </del>	<del></del>	(i	4.20	12,602	3,900	<del></del>
GRAND TOTAL	12.90	11 000		1000				200		000 00	1 700 700		3
SUSTINE TOTAL	15.30	14,828	1,149	18.24	98,272	5,388	0.17	765	4,581	389.77	1,763,886	4,525	74.02
L	<u> </u>	<u> </u>	<u></u>	l	<u> </u>	<u> </u>		<u> </u>	L		1	<u> </u>	<u> </u>

REFERENCE		· · · · · · · · · · · · · · · · · · ·			<del></del>						·	<u> </u>	
CODES		1	NO. OF TRE	E. PRODUCT	ION (kg) AND	YIELD (kr∕t	ree) OF WAL	N PERENIAL CR	OPS - 1988		4 3 5		
Irrigation		Sweet Leaon			Legon			Kandarin			Drange		Others
zone	No.	Production	Yleld	No.	Production	Yield	NO.	Production	Yield	NO.	Production	Yleld	No. of Tree
Hau:	100				1		858	9,106	10.6	967	4,163	4.3	316
SUKH							444	8, 190	18.4	504	14.622	29.0	591
HWU3	9	121	13.4				2,625	33,429	12.7	3,044	45, 151	14.8	205
Sub-total	9	121	13.4			1	3,927	50,725	12.9	4,515	53,936	14.2	1,112
HWI	133	313	2.4			<del></del>	5, 159	62,498	12.1	8.355	169,723	13.1	550
HW2	30	436	14.5				15,427	163,557	10.6	14,245	198,944	14.0	75
H¥3	486	8,053	16.6	989	5,721	5.9	45, 199	977,478	21.6	36,307	864, [7]	23.8	1,275
HW4	199	2.840	14.3				7,697	77.472	10.1	9,785	140, 220	14.3	142
H¥6	3.585	3.475 8.483	40.4 2.4	12	161	13.4	6,702	71.757	10.7	14.645	198,865	13.6	252
Sub-total	4,519	23,600	5.2	981	5,882	6.0	6,206 86,390	94,313	15.2 16.8	12,610 95,947	281,258 1,793,181	22.3 18.7	4.311 6.605
	7.55	- 14 E							1010	001041			0.000
Total of HK	4.528	23,721	5.2	981	5,882	6.0	90,317	1,497,800	16.6	100,462	1.857.117	18.5	7,717
KLI	3	41	13.7	9	80	8.9	553	4,590	8.3	558	7,455	13.4	····
KLS	7	111	15.9	1			694	3.635	5,2	430	2.575	8.0	19
KE3	288	9,741	11.0	147	1,148	7.8	8,251	77,321	9.4	13, 157	133.032	1.01	2,614
KL4 KL5	796 846	10,165	12.8	19	234	12.3	8,713	89,899	10.3	10,317	316,021	30.6	324
KL6	559	16,264 8,598	19.2 15.4	18 36	980 732	54.4 20.3	8,000 4,946	89,159 64,972	11.1	12,659	182,002	14.4	2, 156
Sub-total	3,093	44.920	14.5	230	3,174	13.8	31,157	329,576	13.1 10.6	10,833 47,954	158,598 799,683	14.6 15.7	2,240 7,353
							577	/					,,,,,,,
XR2	13	292	22.5				6,609	81,534	12.3	2,021	20,961	10.4	4
XR3 XR4	103 529	1,349	13.1	18 84	96 l	5.3	3,164	21,841	8.9	4,331	44,601	10.3	229
XR5	277	4,023	14.5	10	321	32.1	6,463 3,175	65,853 38,353	10.2 12.1	8,630 3,857	92,438 63,889	10.7 16.6	848 534
Sub-total	922	16,847	18.3	112	551	4.9	19,411	207,581	10.7	18,839	221,869	11.8	1,615
138	397	5.831	14.7	24	502	20.0	11.60	132,429		10 505	101.005		
HE2	116	2,905	25.0	10	502 [ [7]	20.9 17.1	11,325	24, 164	11.7 5.4	13,595 5,808	134,235 42,147	9.9	7,328 4,804
HE3	-390	6,796	17.4	66	955	14.5	8,345	106,531	12.8	13,631	196,906	14.4	1,082
HE4	301	4,400	14.6	24	262	10.9	6,630	117,447	17.7	8,517	148,684	17.5	1,105
IIE5 Sub-total	336 1,540	4,709	14.0	77	454	5.9	6,794	56,578	8.3	7,995	91,753	11.5	1,690
300 (0(8)	1,340	24,641	16.0	201	2,344	11.7	37,572	437,149	11.6	49,546	613,725	12.4	16,009
Total of HE, KL. KR	5,555	86,408	15.6	543	6,069	11.2	88,140	974.306	. 11.1	116,339	1,635,297	14.1	24,977
, AEI	44	863	19.6				1,034	11,960	11.8	2,185	28,637	13.2	803
YES	188	3,459	18.4	5	95	19.0	1,244	11.642	9.4	3,115	37,487	12.0	193
AE3 AE4	136	7,380 2,043	16.9 16.6	84	427	5.1	8,631	106, 112	12.3	17,780	227,981	12.8	1,838
AE5	182	2,993	16.4	35	112 244	14.0 6.8	6,412 6,288	63,258 139,960	9.9 22,3	7,631 9,446	102,737 223,643	13.5 23.7	1,116
AE8	276	5,222	18.9	15	53	3.5	4,081	64,210	15.7	5,055	105,231	20.8	264 299
AE7	418	4,588	11.0	24	162	6.8	4.852	41,464	8.5	6,800	86,956	13.2	1,801
AE8 AE9	108 831	1,083	10.2	22	165	7.5	1,227	8,148	6.6	1,655	15,724	9.5	195
AEIO	193	13, 181 2, 617	15.9	6	55 20	9.2 5.7	4,677 2,844	61,855 40,973	13.2	9,934	190,653	19.2	1.838
AELI	534	6,684	12.5	267	2,547	9.5	23,398	397,067	14.4	5,515 24,209	84,597 544,663	15.3 22.5	341 1,765
Sub-total	3,331	50,113	15.0	470	3,880	8.3	64,688	946,649	14.8	93, 105	1,648,315	17.7	10,453
1767						: :	249	4,659	18.7	285	5, 260	18.5	<del>                                     </del>
SKY	5	100	20.0				99	1,855	18.7	480	15.329	31.9	182
AW3	48	708	14.8	4	31	7.8	4,151	60,483	14.8	5,486	116,973	21.4	124
A¥4 A¥S	208 57	2,328 576	11.2	20	93   60	11.6	2,461	31,226	12.7	5,375	82,660	15.4	31
AW6	54	1, 196	22.1	7	154	3.0 22.0	2,315	28,623	12.4 17.0	4,889	74,916 145,228	15.3	766
A¥7	39	217	5.6		- 1		3,024	36,173	12.0	4,955	79,290	29.3 17.1	106 335
418	254	4,276	16.8	18	422	26.4	5.677	93,917	18.5	9,614	189.305	19.7	1,518
AY9	1.367	36,077	26.4	57	1,397	24.5	21,467	308,655	14.4	55.086	771.218	14.0	2,608
Sub-tote1	2,032	45, 478	22.4	112	2, 157	19.3	41,889	607,068	14.5	90,777	1.480.179	16.3	5,670
AU BU	288 91	3,911 1,608	13.6	1 138	30 507	30.0	7,605	106, 374	14.0	12,404	173,315	14.0	542
					507	3.7	2, 144	55,536	25.9	2,228	41.380	18,6	36
GRAND TOTAL	15,825	211,239	13.3	2,245	18,525	8.3	294,783	4,187,733	14.2	415,315	6,835,603	16.5	49,395

TABLE C. 2 - 4 CROPPING AREA AND YIELD/HA OF PADDY IN EX-AMOL SHAHRESTAN BY VARIETIES SINCE 1984/85

										٠.											:	٠	
VARIETV	AREA R	1984/85 RATIO YIELD AREA	TIELD ;	198 AREA RA	1985/86 RATIO Y	TELO AI	AREA RA	1986/87 RATIO Y	1986/87 RATIO YIELD AREA		1987/88 RATIO YI	IELD AI	1987/88 1988/89 RATIO VIELD AREA RATIO VIELD AREA 8 % kg hs 1 kg f	1988/89 RATIO YI	ELD AR	- 1		199 TELD AREA RA	1990/91 RATIO Y 8	1992. YIELD AREA ka hi	392-eat EA RAT ha	1992-eatimated AREA RATIO VIEU ha %	le :
TAROH	22, 550 41.0 4, 800 24, 000 43.6 4, 100	41.0 4	008	24,000	43.6 4	1	17,000 29.3 4,450	29.3	,450 2	29,000 48.3 3,440	8.3	440 1	18,440 29.5	9.54	968 29	227 46		5 26, 357	42.2 5	26,357 42.2 5,030 35,000 60.3 3,500	000 80	3 3,50	2
KHAZAR	6	O	0	0	0	0	350	0.8 2,200		1, 800	2.7 4,230		6, 751 1	10.8 5	5,391 8	8,290 13	13.3 5,542	2 11,914	19.1	5,700 7	7,000 12	12.1 5,000	2
GRRDEH*	2,400	2,400 4.4 3,800	800	200	500 0.9 6,500	,500	320	0.62	2,300	300	0.55,	5,100	1,403	2.2 6.	6,916. 1	1,645	4.2 6,450	0 1,489	2.4	6,500	600	1.0 5,500	8
HARAZ	0	0	9	4,000	4,000 7.3 7,600		11,000 19.0 6,900	19.0.6		4, 790	8.0 4,830		8,030 12.8 7,202	2.8 7.		7, 135 1	11.4 7,585 2,175	5 2, 175	3.5 6,970		4,000 6	6.9 6,500	8
TAROM ASGHARI	0	0	0	0	0	0		0	0	0	0	0	0	0	0	1,178	1.9 6,260	0 11,039	17.7 6,060	, 080 3,	200	6.0 5,000	8
SEFID RUD	0	0	0	0	0	0	0	0	0	0	0	. 0	870	1.4 6,	6,950 5	5,290	8.5 7,435	5 2,529	4.0 7,280	,280 3,	000	5.2 6,500	8
ANOL-3	18,150 33.0 8,100 22,000 40.0 7,900	33.08	1, 100 2	22, 000	40.0.7		25,000 43.1	43.1 7	7,050 15,080		25.1 5,	5,510 2	21,621 3	34.8 7,	7,898 7	7,646 12	12.2 8,144	4 3,097	5.0	6,590 2	2,500 4	4.3 8,000	8
HESBAH	1,650	1,650 3.06,500	, 500	900	300 0.9 6,000	000;	700	1.2 5	5,850 1	1,370	2.3 4,300		1,314	2.18,	6,216	88	0.1 6,300	0 238	0.4	5,510	600	1.0 5,500	8
BINAH	1,250	1,250 2.3 1,800	800	700	700 1.3 1,800	800	909	1.0 1,790	, 790	580	580 1.0 1,750	,750	88	0.15,	5, 729 1	1,000	1.6 4,500	0 236	0.4 4,710	, 710	1 009	1.0 3,000	8
SHASTAK HALEKI	1,250	1,250 2.3 1,800	800	700	700 1.3 1,600	009	700	1.2 1,700	.700	580	1.0 1,750	,750	0	0	0	111	0.2 5,500	1,371	2.2 3,670	0.870	600	1.0 3,500	8
AB KENAR	1,350	2.5 1,800	, 800	909	600 1.1 1,500	200	700	1.2 1,400	400	0	0	0	462	0.74	4,620	0	0	0 118	0.2	3,020	0	0 3,500	8
RASHTI	4,400	8.0.4	1,500	8.0 4,500 2,000 3.6 4,200	3.6 4		1,300	2.2 4,490		6, 700 11.2		3,950	3,091	4.9 5	5 100	688	1,4 3,830	0 568	0.9	5,240	0	0 4,500	8
SHABANJO	Đ	0	0	0	Ó	0	0	9	0	0	0	0	426	0.76,	6, 190.	0	0	0 1,371	2,2.4,010	.010	600	1.0	C
AM01-2	٥.	0	0	0	0	0	330	0.62	2,290	0	0	0	0	0	0	0	0	0 (	0	0	0	0	0
снамра*	2,000	3.5 3,500	3,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	55,000			- 55,000		1	58,000		- 8	80,000		9	62, 500		- 62	62,500		- 62,500		- 58	58,000		1.

* Short grain rice

TABLE C. 2 - 5 DATA ON MID-SUMMER DRYING EFFECTS

VARIETY: AMOL				S				
period	paddy	straw	number of	number of	length of	unfilled	1000grain	plant
TL MAX HD	yield ton	yield ton	tiller/hil	grain/pani	panicle	grain %	weight gr	height cm
X X -	8.450	14.023	40.8	208.8	26.6	15.0	28.4	93.3
X - X	7.528	11.465	39.8	187.0	24.4	24.3	26.8	87.1
- X X	7.368	11.110	31.3		24.9		26.2	89.8
χ	8.370	14.438	40.3	204.0	26.8		28.3	91.1
Х	7.275	11.350		179.3		26.5	25.5	86.3
- X -	7.957			189.2	25.4	20.8		87.5
( X X X )	8.145	12.905	39.8	195.5	26.0	16.0	28.2	93.2
	8 250	13.425	39.3	199.5	26.6	16.3	27.7	93.9
average	7.918	12.588	36.9	191.7	25.6	18.9	27.2	90.3
Х Х -	8.744	14.375	35.3	211.0	27.7	9.5	28.6	-
χ - χ	7.213	12.600	31.3	198.0	26.1	22.3	26.6	-
- X X	6.794	12.625	23.0	179.0	25.3	21.3	26.7	-
χ	9.127	14.250	34.0	213.0	27.7		28.7	-
X	6.644	11.575	23.0	175.0	24.6	23.5		
- х -	8.040	13.225	25.8	203.0	27.1	11.2	28.1	
X X X	7.151	13.800	29.3	203.0	26.3	19.2	26.7	_
	7.669	13.540	24.5	186.0	26.7	11.5	27.5	] ]
average	7.673	13.249	28.3	196.0	26.4	16.0		-
Х Х -	8.650	-	34.0	211.0	27.1	10.0	28.6	98.8
X - X	6.815	<u>.</u>	31.3	192.0	26.3	21.8	26.6	91.5
- X X	6.745		30.5	176.0	25.8			86.5
X	7.503	-	33.3	208.0	27.5	10.8	28.5	
χ	6.193	-	24.5	166.0	24.7	24.0	26.3	
- X -	8.295	-	30.5	199.0		10.1	28.0	83.3
[ X X X ]	8.268	- '	33.0	194.0	26.6		26.3	98.0
	7.412	-	24.5	183.0		10.8	27.7	92.8
average	<u>7.485</u>		30.200	191.125	26.375	16.000	27.263	91.275
Note: period	of drying	TL; tille	ring	Max; Maxim	m tillerin	g	HD; headir	g stages
figure	s in the u	pper part	for 1984,	in the mi	ddle for 1	985 and in	the lower	for 1986
average of no			7.777	100.0%		ering only	8.333	107.2%
average of dry	ying at ti	llering	7.997		at max.	til' only	8.097	
d.o. drying a	t max til	lering	7.884	101.4%		ing only	6.704	86.2%
d.o. drying at	t heading	stage	7.245	93.2%	mean at	tillering	8.215	
average of to	tal withou	it control	7.680	98.7%		· · · · · · · · · · · · · · · · · · ·		

From the results given above, yield increase by mid-summer drainage is estimated at 105.6 % excluding those at heading stage which give detrimental root cutting effect to paddy plant

TABLE C. 2 - 6 DATA ON DENSITY SPACING OF PADDY PLANTING

VARIETY:	Line 6931	(HYV)	YEAR: 1991	- 92	TREATMENT:	TRIPLICATE
	No.ofhill/		Tillers/m2		Urea kg/ha	DAPkg/ha
1991 Results		(kg/ha)		(plant cm)		
15cm x 15cm	44.4	6,427	8.0	102.3	200	100
20cm x 20cm	25.0	6,463	10.6	113.6	200	100
25cm x 25cm	16.0	7,073	15.0	114.3	200	100
30cm x 30cm	11.1	6,724	18.0	115.6	200	100
OCCIA II COCIA	11.1	0,721	10.0	110.0	200	100
15сп х 15сп	44.4	7,082	8.0	117.7	250	100
20cm x 20cm	25.0		12.0			100
25cm x 25cm		7,642		113.0	250	100
	16.0	6,650	15.6	118.0	250	100
30cm x 30cm	11.1	5,652	17.0	117.0	250	100
15am v. 15av.	44.4	9 EE1	òΛ	110 0	200	100
15cm x 15cm	44.4	7,551	8.0	118.6	300	100
20cm x 20cm	25.0	7,280	13.0	115.6	300	100
25cm x 25cm	16.0	7,005	14.0	124.0	300	100
30cm x 30cm	11.1	5,087	17.0	124.0	300	100
15cm x 15cm	44.4	7 001	ο. ο	110.0	250	100
	44.4	7,601	9.0	116.6	350	100
20cm x 20cm	25.0	7,024	12.0	123.0	350	100
25ст х 25ст	16.0	6,684	15.0	127.6	350	100
30cm x 30cm	11.1	6,577	19.0	133.0	350	100
		Average		1991	Ì	; .
15cm x 15cm	44.4	7 <b>,</b> 165	8.3	113.8	275	100
20cm x 20cm	25.0	7,102	11.9	116.3	275	100
25cm x 25cm	16.0	6,853	14.9	121.0	275	100
30cm x 30cm	11.1	6,010	17.8	122.4	275	100
1992 Results						
15cm x 15cm	44.4	7,047	6.9	125.6	200	100
20cm x 20cm	25.0	6,209	9.5	123.3	200	100
25cm x 25cm	16.0	6,120	13.7	124.8	200	100
30cm x 30cm	11.1	6,113	14.8	131.6	200	100
OCCIN K OCCIN	11.1	0,110	14.0	101.0	200	100
15cm x 15cm	44.4	6,969	. 7.7	120.0	250	100
20cm x 20cm	25.0	6,986	10.6	123.8	250	100
25cm x 25cm	16.0	7,306	14.2	137.4	250	100
30cm x 30cm	11.1	6,304	16.2	137.6	250	100
OUCH A DUCH	11.1	0,004	10.2	191.0	250	100
15cm x 15cm	44.4	6,508	6.9	123.5	300	100
20cm x 20cm	25.0	6,395	9.7	125.6	300	100
25cm x 25cm	16.0	2,000 2,000		135.6		
		6,269	14.6		300	100
30cm x 30cm	11.1	6,548	18.3	136.1	300	100
15cm x 15cm	44.4	6,535	7.8	123.9	350	100
20cm x 20cm	25.0	7,137	9.5	134.3	350	
25cm x 25cm						100
	16.0	7,872	15.1	137.7	350	100
30cm x 30cm	11.1	6,512	18.2	138.2	350	100
15 16	اممد	Average	of	1992	one	400
15cm x 15cm	44.4	6,765	7.3	123.3	275	100
20cm x 20cm	25.0	6,682	9.8	126.8	275	100
[ 25cm x 25cm	16.0	6,892	14.4	133.9	275 (	100
30cm x 30cm	11.1	6,369	16.9	135.9	275	100
			rtesy of M			

Source: By the courtesy of Mr.Eshraghi and Mr. Babapur

### Quadratic Regression Equations with Yield(Y) and Density(D)

```
Y = aD*D + bD + c and S(): Sigma X = S(D2)S(D2Y) - S(D3)S(DY) - S(Y)S(D2)S(D2)/4 Z = S(D2)S(D4) - S(D3)S(D3) - S(D2)S(D2)S(D2)/4
                                                                             where
a = X/Z
               U = S(D2Y) - S(Y)S(D2)/4 + a(S(D2)S(D2)/4 - S(D4))

V = V = S(D3) where: D2 = D*D, D3 = D*D*D, D4 = D2*D2
\mathbf{p} = \mathbf{I} \mathbf{N} \mathbf{A}
                            mean of d = m, then D = d - m, S(D3) = 5586.63 S(D4) = 20357
No. of hill = d,
                                                                                 24.125
S(D2) = 650.12
                                                  S(D4) = 203573.50
                 S(DY) = 17393.38 S(D2Y) = 4422991.3
88412576 Z = 32442487. a = X/Z =
80764.02 V = 5586.63 b = U/V =
                                                                                27130.5
for 1991,
                                                                   S(Y) =
                -88412576
χ =
U =
                280764.02
                                                                      50.26
                  7132.20 = 6010 - (-2.73*(11.1-24.125)2 + 50.26*(11.1-24.125)
c =
                D-24.125)2 + 50.26(D-24.125) + 7132.20
Y = -2.73(
that is:
                Y = -2.73D*D + 181.98D + 4330.78
                                                                 Max-b/2a=
33.33 equiv. equiv. to17.32cm x 17.32cm
                                                     present 16hls/m2 25cm x 25cm
Expected rate of Yield Improvement
                                                     Y(D=33.33) / Y(D=25)
                                                                                   1.03
for 1992.
                  S(DY)=
                              3913.35 \text{ S(D2Y)} = 4321534.9
                                                                   S(Y) =
                                                                                26707.5
                -34367496
X =
                               Z =
                                        32442487. a = X/Z =
                                                                    -1.06
                                           5586.63 b = U/V = 44.40
U =
                248057.92
                              · V =
                  7131.97 = 6369 - (-1.06*(11.1-24.125)2 + 44.40*(11.1-24.125)
Y = -1.06(D-24.125)2 + 44.40(D-24.125) + 7131.97
               Y = -1.06D*D + 95.55D + 5443.88
that is:
                                                                 Max-b/2a=
                                                                                  45.07
               equiv. to 14.9cm x 14.9cm
                                                present 16hls/m2
                                                                             25sq.cm
Expected rate of Yield Improvement
                                                    Y(D=45.07) / Y(D=25)
                                                                                   1.06
Average rate of Yield Improvement by proper spacing is
estimated at:
                            (1.03 + 1.06)/2 = 1.045
                                                                 for HYV.
```

TABLE C. 2 - 7 NUMBER OF SEEDLINGS PER HILL AND CORRESPONDING YIELDS

	number of	number of	number of	effective	no of mat-	number of	matured	weight of	paddy
variety	seedlings	hills per	maxtiller	tillerings	ured grain	panicles		1000grains	
	per hill	sg. meter		%	/panicle	per hill	8	gr	ton /ha
TAROM	3 - 4	23.81	13.90	91.37	107.12	12.70	94.63	22.7	4.773
early		20.83	16.80	80.95	74.44	13.60	96.36	23.8	4.847
var.	5 - 6	23.81	13.10	98.47	80.83	12.90	92.11	22.9	4.612
		20.83	17.60	86.36	77.06	15.20	93.91	22.0	4.782
KHAZAR	3 - 4	23.81	17.40	52.07	112.00	10.80	82.66	25.3	6.641
medium	1	20.83	22.20	57.66	133.92	12.80	79.99	25.2	5.913
var. ·	5 - 6	23.81	22.80	52.63	99.45	12.00	83.57	25.2	5.935
		20.83	22.00	_ 56.36	175.57	12.40	90.23	25.6	6.310
AMOL-3	3 - 4	20.83	26.52	61.35	158.88	16.27	78.00	26.2	8.905
late		18.52	32.70	54.26	156.19	17.41	76.69	25.9	8.883
var.	5 - 6	20.83	28.83	59.19	163.87	17.13	77.55	26.1	9.001
		18.52	30.64	58.28	143.98	17.78	76.29	26.1	8.644

Expected Yield Improving Effect by Number of Seedlings per Will

Maturity-Variety	Estimated	from Yield	Estimated from Components Ave	rages
	; <b>%</b>	ton/ha	hill-weight % ton/ha yield.equiv	
early - varieties		0.161	29.3% 1.668	2.4%
(local)	1.4%	0.065	-6.5% -0.349	
medium -varieties	11.9%	0.706	1.8% 0.126	2.8%
(H.Y.V.)	-6.3%	-0.397	-22.5% $-2.611$	2.00
late - varieties	-1.1%	-0.096	-7.6% $-1.154$	0.8%
(H.Y.V.)	2.8%	0.239	5.4% 0.669	0.0%
			The state of the s	***************************************

As to the effect of land consolidation preventing loss of applied fertilizers flown away out of the applied fields by overflow irrigation systems, no data exists in the project area, and therefore it should be estimated from a theory of partition. Response characteristics to chemical fertilizers can be derived from Then, the yield loss is to be derived from the estimated amount of fertilizers lost from the applied field. Yield increment per kg. of urea is thus given by (1991) 1.747 kg.paddy / kg. urea applied/ha (1992) 2.928

On the other hand, the amount of water overflown from 1 ha of paddy plot can be estimated from water quantity reused and precipitated during cropping. Basic data available to the estimation are: full depth of waterlogging over paddy field; 150 mm. number of days from transplanting to milk ripening; 100 days, amount of reuse water; 116 MCM/year, amount of rainfall during this period; 102 mm. mean water percolation rate per diem (duty); 6.9 mm. necessity of covering five folds of the are as much as its own to feed water as passage is assumed for calculation. Then,

estimated quantity flowing out of a plot of 1 ha; load of rain drainage + disposal of reuse water + delivering water to lower lying plots minus own consumption =  $102 \text{ mm}/ 100 + 116\text{MCM}/ 100/ 82200 + (6.9 \times 5 - 6.9)\text{mm} = 28.8 \text{ mm/day}.$  equivalent to 19.2 % of the filled water volime, but it takes for applied urea (130 ppm) to be adsorbed by paddy soil around 5 days after application. Taking this into account, possible loss into overflown water can be estimated as  $: 0.192(1 + 0.8 \times 0.808 + 0.6 \times 0.653 + 0.6x0.89 + 0.4x0.84 + 0.2x0.80) = 0.448$  equivalent to 89.6 kg of urea. So, the estimated yield loss comes to  $89.6 \times (1.7 + 2.9)/2 = 206 \text{ kg}$ , or 5.2 % of the current yield for local variety, but only 3.8 % for medium and 2.8 % for late H.Y.V. However, even with project all local varieties are not necessarily receive top dressing hence a half of the estimated effect will be applied to.

**TABLE C. 3 - 1** POPULATION OF CATTLE & SHEEP/GOAT IN TOTAL SHAHRESTAN & PROJECT AREA

	TOTAL	SHAHRESTAN	PROJEC	T AREA
	Cattle	Sheep/Goat	Cattle	Sheep/Goat
AHOL SHAHRESTAN:	,			
Chalav*	1,775	5,694	1,600	1,000
Bala Khiaban Latikuh∗	16,337	46,368	4,040	7,200
Poin khiaban Latikuh	5,385	14,450	5,385	14,450
Dasht Sar	15,018	15, 181	8,892	5,586
Dabu Junubi	9,318	1,478	9,318	1,478
Harazpei Junubi	4,336	4,448	4,336	4,448
Ahlamrostagh	6,985	870	22,062	3,510
Harazpei Shomali	4, 160	1,817	4, 160	1,817
Dabu Shomali	6,737	53	6,737	53
SUB-TOTAL	70,051	90, 359	66,530	39,542
OTHER DEHSTANS	6,307	44,934		
TOTAL	6,307 76,358	135, 293		
	•			
BABOLSAR SHAHRESTAN:	.*			
Emamzadeh Abudallah	2,580	406	2,580	406
Barik Rud	2,782	4,980	2,782	4,980
Rud Bast	7, 140	6,115	2,943	745
SUB-TOTAL	12,502	11,501	8,305	6, 131
OTHER DEHSTANS	4,397	9, 290		
TOTAL	16,899	20,791		
BABOL SHAHRESTAN:				
Lalehabad	9,867	11,611	8,432	6,806
Karipei	11,067	456	11,067	456
SUB-TOTAL	20,934	12,067	19,499	7, 262
OTHER DEHSTANS	91,535	112,641		
TOTAL	112,469	124,708		
NUR SHAHRESTAN:			1,400	0
·				
TOTAL PROJECT AREA			95,734	52,935
TOTAL SHAHRESTAN	205,726	280, 792		•
		· ·	the second second second	

Notes: (1) The Dehstans are newly rearranged, therefore the data are also rearranged accordingly, except
(2) Chalav and Bala Khiaban Latikuh whose data are not rearranged according to new administration boundary.

TABLE C. 3 - 2 LIVESTOCK POPULATION IN THE PROJECT AREA BY DEHSTANS

	Bee	(box)		300	765	397	242	152		46	47	160	2, 109		29	160		222			18	126	144	2,475	
		Turkey		30	130	170	1,201	2,599	1,396	439	370	210	6,545		137	115	78	328			2,444	818	3,362	10,235	
1985		Goose	23	460	1,380	3,150	6,888	10,126	6, 198	7,390	5,910	4,880	46,382		5,915	2,850	1,391	10,156	-	120	9,559	10,655	20,334	76,872	
LATION IN		Duck	10	800	5, 160	10,535	17,584	63,160	18,814	34,560	27,100	31,350	208,873		21,460	8,860	6,437	36,757		400	32,761	94,170	127,331	372,961	
POULTRY POPULATION IN 1985	Chiken	Industry		11,000	210,400	66,000	382,500	240,000	145,500	87,000	30,000	- 1	1,152,400			9,000	5,000	14,000			5,000	69, 350	74,350	1,240,750	
ď	Chi	Local	20	1,550	8,150	15,970	25,020	80,248	24,485	27,490	28,071	28,870	219,904		25,650	10,960	13,150	49,760		006	39, 254	43,819	83,973	353, 637	
	٠.	Ass & Mule		2	5		09					- 11	72							-	~		2	74	
		Horse		40	56	87	66	4	6	10			246	-	13	12	. 2	33	<del></del>	က	26	4	33	312	
		Goat		248	174	791	787	163	175	292	278	4	2,912		10	28	7	45		20	95	27	142	3,099	
		Sheep	277	2,248	4,684	6,641	6,800	1,885	4,042	1,379	360	533	28,849		144	2,409	439	2,992		312	3,984	848	5, 142	36,983	
1988		Total	08	999	4,480	4,968	8,180	7,041	4,548	3,451	3,188	2,378	38,960		1,417	1,428	1,143	3,988		232	4,224	5,023	9,479	52,427	
LIVESTOCK POPULATION IN 1988	Cattle	Pure		45	23	53	285	238	237	223	142	142	1,701		12	503	122	343		10	322	271	803	2,647	
IVESTOCK PO	2	Hybrid	20	35	783	401	1,461	198	597	304	508	166	5,142		131	377	592	777		40	946	1,454	2,440	8,359	
_1		Local	09	586	3,654	4,508	6,127	5,936	3,714	2,924	2,538	2,070	32,117		1,274	842	752	2,868		182	2.956	3,298	6,436	41,421	
REFERENCE. CODES		Dehstan	Ω¥	DNOO1	DNO02	DNO03	DN004	DN005	900NG	700NO	80GNQ	DN009	Sub-total		DN010	DN011	DN012	Sub-total		88	DNO13	DN014	Sub-total	TOTAL	

TABLE C. 3 - 3 LIVESTOCK POPULATION IN THE PROJECT AREA BY IRRIGATION ZONES

REFERENCE CODES			OPULATION IN	1988	1,11					POULTRY POP	ULATION IN	1985	· ·	<u> </u>
Irrigation zone	local	Hybrid	Cattle Pure	Total	Sheep	Gost	Horse	Ass & Kule	Ch Local	iken Industry	Duck	Goose	Turkey	Bee (box)
HFU1	337	25	45	407	1,714	235	20				000	000		
HNU2	249	10	43	259	534	13	30 10	4 3	1.000 550	4,000 7,000	500 200	300 160	30	10
HWU3	235	52.		287	353	5	10		700	3,000	400	300	30	20
Sub-total	821	87	45	953	2,601	253	50	7	2,250	14,000	1,200	760	60	50
H¥1	857	57	3	317	303	18	3		900	26,400	950	200	50	47
HW2	2,703	174	41	2,918	3,050	220	5		6,720	78.000	5,335	1,620	24	20
K13	3.225	808	12	4.045	4.623	171	44	5	12,620	167,000	6, 150	1,710	156	
H) 4	904	116	83	1.103	1,390	270	23		4,540		11,720	1,405	75	
K>5	502	75	28	695 ]	597	6			4.100	20,000	3,760	1,110	242	
H16	611	68	18	697	127	2		<u> </u>	4,290	19,500	3,400	1,730	275	
Sub-total	8,802	1,298	185	10,285	10,096	687	75	5	33,170	310,900	31.315	7,775	822	7
Total of HT	9,623	1.385	230	11,238	12,697	940	125	12	35,420	324,900	32,515	8,535	862	1,27
KLI	133	25		158	173	15	3		240		113	151	10	
XL2 XL3	1,464	20 377	18 50	1.891	155 210		4	<u> </u>	800	6,000	800	300	40	
KL4	1,130	491	89	1,710	54	5	3		21,640 13,684	5,000 13,000	31,980 14,830	5,345 3,632	593 379	
XL5	673	409	182	1,264	160	24	1		4,205	30,000	5,637	745	10	
KLB	445	405	128	978	220	1	N N	2	6,480		3,320	790	70	
Sub-total	3,891	1.727	467	6,085	1,272	49	11	2	47,049	54,000	56,480	10,963	1,102	
XES.	275	29	18	322	804	93	8		100		40	20		
KR3	1,442	163	44	1,649	536	90	35		8,100	41,000	3,990	1.511	137	
KR4	1, 124	256	54	1,434	2,904	64	21		10,819		8,821	3,370	626	
XR5 Sub-total	454 3,295	289 728	67 183	4,206	791 5.035	26 273	5 67		14,260 31,279	41,000	6,160 19,011	2,967 7,868	1,660 2,423	
HEI	2,528	566	279	3,373	2.541	244	40	<u> </u>	10,840	347,000	10,024	3,660	749	
HE2	603	166	2	771	858	43	: 1		4,240	198,000	2,735	830	162	
HE3	1,261	264	81	1,606	1,966	187	15		19,370	45,000	7.465	1,492	_ 620	23
HE4	1,208	197	57	1,462	1,174	195		60	7,470	12,000	6,756	1.800	292	
HE5 Sub-total	1.040 6,640	341 1.534	55 474	1,436 8,648	568 7,107	75 744	5 61	. 60	3,250 51,170	18,850 620,850	48,486 75,466	2,516 10,298	175	37
otal of HE,	13,826	3,989	1,124	18,939	13,414	1,068	139	62	129,498	715,850	150,957	29, 129	5,523	4:
KE, KR	415 1	02			<u> </u>				4 1		11		60	
YES 1	445   453	93 72	12	550   545	180 82	3			2,000 3,200		2,100 3,350	300 550	30	
AE3	1,983	158	61	2,202	400				21,480		27,095	3,640	334	1
JE4	673	92	38	803	112		4		21,880		23,200	5,152	160	
AE5	1.363	103	55	1,521	399	75			9,512		15,184	1,751	623	
YE9	924	73	2	999	12	. 6			8,496		9,900	1,668	340	
AE8	868 224	141	10	1,019	47	1	15		8,590	9,000	9,370	1,540	420 15	1
AE9	684	44 83	3	770	23	3			1,640 6,765	5,000	1,800 8,010	750 1,780	14	
AE10	486	70	65	621	14	,	<del></del>		2,950	26,000	3,700	650	30	
AEII	966	487	280	1,733	2,810	26	14		15,260		6,330	2,646	186	1
Sub-total	9,069	1,416	549	11.034	4,082	118	33		101,773	40,000	110,039	20, 425	2,212	. 4
A\$ 1	168	26	6	200		<u> </u>		-	4,200	-	3,980	1,100	<u> </u>	<del></del>
AT2	204	16		220	3		5		1,550		1,030	250	10	
AR3	467	43	70	58D	4				7,850	21,000	8,980	1,910	24	
AW4	555 1.315	47 87	12	614 1,429	1,054	268	1	<u> </u>	5,500	22,000	4,350	1,300	90 8	<del> </del>
AT6	631	61		742	1,054		<del></del>		6,781	<del></del>	7,250 4,660	1,820	85	
117	1,117			1,374	263		<b> </b>		10,210	38,000		3,660	947	<del>                                     </del>
S T A	601	175	80	856	1,492	73			3,065	45,000	1,420	471	22	
<u>, , 19</u>	2,088	467		2,755	598			- :	33,350	: .	32,050	T	322	100
Sub-total	7,146	L		8,770	3,480	<u> </u>	8		76,446		73,890			L
AU BU	1,539 218	420 45		2.173 273	2,795 515		3		8,500 2,000		3,160 2,400	1,477 320	90 20	
GRAND TOTAL	41.421	8,359	2,647	52,427	36,983	3,099	312	74	353,637	1,240,750	372.961	76,872	10,235	2,

# TABLE C. 3 - 4 BASIC FACTORS FOR LIVESTOCK FARMING

### (1) Standard Daily Ration (kg/day/head)

	-	Spring	-Summer	Autumn-	Winter
		DCP	TDN	DCP	TDN
Local Cow	Adult	0.54	3.17	0.75	3.09
the second second	Heifer	0.35	2.25	0.52	2.12
	Calf	0, 30	1.74	0.34	1.61
Hybrid Race	Adul t	1.04	6.35	1. 37	6.43
	Heifer	0.64	3.74	0.87	3.64
	Calf	0.38	2.23	0.46	2.15
Pure Race	Adult	1. 38	8.01	1. 72	7.93
	Heifer	0.73	4.24	1. 04	4.26
	Calf	0.43	2.48	0.50	2.48

### (2) Herd Composition of Livestock by Varieties (100 heads per herd)

Local Cow Hybrid Race Pure Race	Adult 64 40 30	Heifer 25 36 41	<u>Calf</u> 11 24 29
Sheep	58		42
Goat	62		38

### (3) Annual Ration per Herd

	Spring.	-Summer	Autumn-W	linter	Annual Total		
•	DCP	TDN	DCP	TDN	DCP	TDN	
Local Cow	8, 530	50,923	11, 783	48, 862	20, 312	99, 507	
Hybrid Race	13, 498	80,915	17, 683	80.051	31, 181	160, 966	
Pure Race	15, 335	88,949	19, 791	88, 175	35, 126	177, 124	
Sheep		-	~	-	2, 116	10,582	
Goat	-	-	-	-	2,310	13, 178	

### (4) Nutrition Content by Available Feed Sources

•				Product	ion/ha
	DCP	TDN	Yield/ha	DCP	TDN
Rice Straw	0.6%	17.9%	4, 300kg	26kg	770kg
Wild Grass*	0.9	12.0	1, 350	12	162
Berseem	2.1	12. 1	60,000**	1,260	7, 260

^{*} Including harvested paddy field in Winter.

^{**} Yield of Berseem at present is about a half because farmer is used to grazing cattle in the berseem farm to save the harvesting work load.

# TABLE C. 3 - 5 PRESENT LIVESTOCK FARMING

# (1) Nutrition Requirement

•		AN TOTAL	No. of	Herd	DCP	TDN
	Local Cow	Whole year	410	: ''	8, 327, 920kg	40, 797, 870kg
		Winter only	437		5, 149, 171	21, 352, 694
	Hybrid Race		84		2,619,204	13, 521, 144
100		Whole year	26		913, 276	4, 605, 224
	Sub-tota	1	* %		17, 009, 571	80, 276, 932
	Sheep	Whole year	370		782, 920	3, 915, 340
		Winter only	118	1. 1. 1.	124, 844	624, 338
	Goat	Whole year	30		69,300	395, 340
		Winter only	11		12,705	72,479
	Sub-tota	}			989, 769	5, 007, 497
	Total				17, 999, 340kg	85, 284, 429kg
(2)	Nutrition Av	ailability				
					DCP	TDN
	Rice Straw		**		1, 722. 240kg	51, 004, 800kg
	Wild Grass		0.6		596, 160	8, 048, 160
	Berseem	4,000 x	0.5		2,520,000	14, 520, 000
	Total		1		4, 838, 400kg	73, 572, 960kg
(3)	Nutrition Ba	lance			-13, 160, 940kg	-11, 711, 469kg
(4)	Supply Ratio				26.9%	86.3%

### TABLE C. 3 - 6 PLANNED LIVESTOCK FARMING

# (1) Nutrition Availability

	Nutrition Resources	DCP	TDN
Rice Straw	75,985ha x 4.3t x 0.6 = $196,041$ t	1, 176t	35, 091t
Berseem	50,384ha x $60$ t x $0.7 = 2,116,128$ t	44, 438	256, 051
Total		45.614t	291, 142t

# (2) Feeding Plan (DCP Basis)

			· · · · · · · · · · · · · · · · · · ·
Case A: Increas	e of Milch Cow		
vase n. Incivas	No. of Herd	ĎC	P TDN
Local Cow	847	<del>17, 2</del>	
Hybrid Race	592	18, 4	
Pure Race	251	8,8	
Sheep	488	1, (	•
Goat	41		95 540
Total		45,6	
Case B: Proport	ional Increase of C	OW	
Local Cow	1,811	36, 7	785 180, 207
Hybrid Race	183	5,7	
Pure Race	56		9, 919
Sheep	488	1,0	33 5, 164
Goat	41		95 540
Total		45,	58 <b>6</b> t 225, 287t
Caso C. Increas	se of Meat Cow & She	ρn	
ouse of therea.	o or nout our a one	· ·	
Local Cow	1,949	39,	588 193, 939
Hybrid Race	84	2,0	619 13, 521
Pure Race	26		913 4,605
Sheep	1,130	2,	391 11, 958
Goat	41		95 540
Total		45,	606t 224, 5631

TABLE C. 3-7 ESTIMATED PRODUCTION UNDER THE PROJECT

	L	ocal Cow	Ну	brid Race	P	ure Race		Sheep	Goat		
Milk	Unit	Yield/Unit	Unit	Yield/Unit	<u>Unit</u>	Yield/Unit	Unit	Yield/Unit	<u>Unit</u>	Yield/Unit	
	1	420	1	1,875	1	3,655		<del>-</del>		-	
Meat:									-		
Culled	0.12	250	0.14	450	0.14	550	0.2	40	0.2	30	
Heifer	0.13	175	0.18	240	0.20	380		•		9	
Calf	0.25	75	0.36	200	0.40	250	0.5	20	0.2	15	
Wool		=		_		_	1	1.5	_	_	

TABLE C. 4-1 AVAILABILITY OF AGRI-MACHINERY IN THE PROJECT AREA BY DEHSTANS

	<u>,</u>		· ·								_,	<u>.</u>						<b></b> .	 					
		Farm Pond			6	7		12	2	46	000	12	80		30	∞	3	57		ĸ	32	37	174	;
		187																						
988		Spring	1.2	·	0	37.	, -	139	73	18	673	6	341		-		-	2		17	8	20	363	
SOUCES IN	Artisan	re!!				6.	8	38	-		2		48		2			2		2	တ	111	81	
AVAILABILITY OF WATER RESOUCES IN 1988	p Well	Mean Depth		200	o	243	09	395	108	259	202	229	1,538		150	118	116	382	20	304	448	772	2.692	
YAILABILIT	Semi-deep	No.	-	1	6	331	111	1,473	181	593	1,168	321	4,188		520	652	386	1,538	144	837	1, 237	2,218	7.944	
		Mean Depth			270	445	240	242	110	470	410	375	2,562			30	80	110		515	450	975	3,647	
	Deep We	No.			·		4	137	တ	30	10	58	280			1-	101	108		9	20	26	394	
NO. 0F	THERSHER	IN 1985	-	α	180	530	818	1,730	783	1, 107	779	808	6,544		589	323	393	1,305	25	1,061	1,580	2,666	10,515	
IN 1988	Water	Рищр			27	403	198	1,636	308	1,808.	1,402	. 485	6,269		839	973	1,298	3,110	144	1,120	1,651	2,915	12, 284	
-MACHINERY		Combine					co ·	ဆ	44	35		79	171							3	90	93	264	
TY OF ACRI		Tiller	. 6	2.2	317	1,212	1,808	3,094	1,220	2,300	1,576	1,545	13,095		1,392	717	988	3,097	10.	1,734	2,842	4,646	20,838	
AVAILABILITY OF AGRI-MA		Tractor		3	.37	55	44	20	38	22	22	35	273		7	34	43	81	2	- 20	17	69	423	
REFERENCE CODES		Dehstan		DNOOT	DN002	DN003	DN004	DN005	DNOOS	DN007	DN008	600NQ	Sub-total	eg e	DNO10	DN011	DN012	Sub-tota]	 80	DN013	DN014	Sub-total	TOTAL	

TABLE C. 4-2 AVAILABILITY OF AGRI-MACHINERY IN THE PROJECT AREA BY IRRIGATION ZONES

REFERENCE CODES	AVAILABILI	TY OF AGRI	-MACHINERY	IN 1988	NO. OF	F AVAILABILITY OF TATER RESOUCES IN 1988					1988			
irrigation				Yater	THERSHER	Deep Y	eli	Seni-de		Artisan	1900			
zone	Tractor	Tiller	Combine	Pump	IN 1985	No.	Hean Depth	No.	Mean Depth	Well	Spring	Farn Pond		
Position					i _i		3.74					<del></del>		
HWU1 HWU2	2	12	ļ		7						4			
KYU3	7	9		10	1 9	<u>-</u>	<u> </u>				1			
Sub-total	10	34		10	17	<del></del>					5			
			]		]		ļ j		. ,		3	i		
HT I	1	10		2	27	Š	190				1	<del></del>		
H¥2	33	828		408	301	11	380	359	175	3	49	2		
H#3	41	599		74	249	4	215	42	49		11	2		
HF4	11	350 255	ļ	64	179			45	44		34			
H¥5 H¥6	2	208		22 27	129 158	s	ļ				6			
Sub-total	95	2,248		597	1,043	19	785	6 453	16 284		9			
Total of HW	105	2,282		697	1,060	13	785	453	284	3	110	4		
KLI	2	20			15	<del></del>								
KL2	4	50.			40						<u> </u>			
KL3	10	708	26	. 80	507	3	230	63	139	8	2			
KL4	2	837	65	353	421			307	127	· · · · · ·	i	6		
KL5	25	558		346	223	16	60	262	102		1	5		
KL6	21	413		349	221	. 2	205	228	76			6		
Sub-total XR2	64	2.586	91	1.128	1.427	21	495	858	444	. 8	4	17		
KR3	8	46 319	1	124	2		100	101						
XR4	14	624	2	616	345	3	100 320	104 526	40 133	<u></u>	13	<del> </del> -		
KR5	8	256		191	199	2	120	131	68		3	<u> </u>		
Sub-total	29	1,245	3	933	657	. 8	540	761	241	. 1	16	. 1		
HEI	28	779	3	162	370	1	102	134	. 63		22			
HE2	4	350	4	131	203	28	50	100	10		1	1		
HE3	5	492		9	315			7	12		5			
HE4 HES	3	419		63	250	<u> </u>	<b></b>			. 3	4			
Sub-total	8 48	666 2,706	7	35 400	438	- 1	100	34	37	2	2			
300 total	40	2,100		400	1.576	30	252	275	122	5	37	<u> </u>		
Total of RE, KL. KR	141	6,537	101	2,461	3,660	59	1,287	1,894	807	14	57	19		
AE1	3	162		50	98			35	5		9			
AE2	3	157		63	108			48	41		21			
AE3	13	1.345	70	586	644	85	20	750	120	14	9	!!		
AE4 AES		1,161	6 8	702 417	435	54	170	422	115	6	1 100	9		
AE8	2	732 615	· °	396	407 331	3		307	85 96	18	102	3		
AE7	6	524		266	243	T	30	254	81	3	<del></del>	12		
AE8		205		137	128	<del></del>	""	137	31		1	3		
AE9	2	457		578	267	6		112	19		<del>-</del>	8		
AE10	3	560		580	208			410	40			9		
113k	56	937	[	1,623	388	100	20	736	177		1	22		
Sub-total	93	8,915	84	5,398	3,257	249	240	3.416	810	41	144	86		
AW1	. 6	235	İ	200	175	. 4	140	125	50			13		
A112	5	170		140	73			35	52			9		
AT3	3	777		544	375	3	200	128	90		5	13		
A74	3	343 449	22	316	172	3	130	120	30		<u></u>	2		
AR6	2	449	13	605 472	240	22	170	575	79 19	<del></del>	2	5 9		
A97	9	568	40	611	291	- 42	20 50	80 580	92		4.0	¦ <del></del>		
AV8	9	186	1	31	138	<del>-</del>	40	580 18	57	1	22	;		
AT3	37	1,629	3	658	735	28	445	310	243	2	1	12		
Sub-total	78	4,758	79	3,577	2,366	8,6	1,195	1,971	712	3	47.	63		
AU	4	209		42	103	1	140	41	47					
80	2	137		209	69			169	32			2		
GRAND TOTAL	423	20,838	264	12,294	10,515	394	3,647	7,944	2,692	. 61	363	174		

RESULT OF SAMPLE SURVEY OF FARMER'S FAMILY BUDGET IN THE PROJECT AREA TABLE C. 4-3

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ANNUAL INCORF Paddy Offices Harm Uther Total 1,280 9,700* 800 1,880 3,366 1,440 0 1,880 0 0 1,880 1,710 1,880 1,710 1,880 1,0955 1,238 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	055	25.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,035 30 218 514 2,
KER ANNUAL INCORE TOTAL	1,066 2,540 1,066 2,540 1,380 1,380 1,380 1,540 1,540 1,550 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,	22	2,035 30 218 514 2,
RKER ANNUAL INCORE TIPE Sate of Crops Farm Unite: Total Tipe Paddy Others Morks Works (1) For 1,280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,066 2,540 1,066 2,540 1,380 1,380 1,380 1,540 1,540 1,550 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,	22	2,035 30 218 514 2,
RKER ANNUAL INCORE TIPE Sate of Crops Farm Unite: Total Tipe Paddy Others Morks Works (1) For 1,280 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,066 500* 320 2,526 1,380 0 0 2,690 1,380 0 0 2,690 1,380 0 0 1,500 0 2,690 1,500 1,500 0 1,800 1,300 0 0 0 0 0 1,800 1,300 0 0 0 0 0 0 1,300 1,300 0 0 0 0 0 0 1,300 1,300 0 0 0 0 0 0 1,400 1,300 0 0 0 0 0 0 1,400 1,300 0 0 0 0 0 0 1,400 1,300 0 0 0 0 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400	25.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,033 30 218 314 2, 3velv means Sale DE 11VESTOC
MORKER  MANUAL INCOME FRATE PAGE OF CTODS FAIR  OTHERS MOTHER OF THE TOTAL  1/4 1/280 0 1/28 144 10/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/695 1/69	1,066 2,540 1,066 2,540 1,380 1,380 1,380 1,540 1,540 1,550 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,	22	2,035 30 218 314 2, 2 218 314 2, 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MORKER   ANNUAL INCORE   FRAILY Sate of Crops Farm Uther Total   Female Paddy Others Horks (1) Fo   1/4   1.280   0.40   0.985   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40   0.40	0/4 1,066 500* 960 0 2,526 2/45 2/540 0 2,526 0 2/45 2/45 0 150 0 2,000 5,380 1 1,380 0 0 1,600 5,380 1 1,200 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	2,035 30 218 314 2, 2 218 314 2, 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
NORKER   ANNUAL INCORE   10   10   10   10   10   10   10   1	7 1 065 500 500 5 520 7,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	23. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	2,035 30 218 314 2, 2 218 314 2, 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
MILY WORKER  ANNUAL INCOME  17	0/4 1,066 500* 960 0 2,526 2/45 2/540 0 2,526 0 2/45 2/45 0 150 0 2,000 5,380 1 1,380 0 0 1,600 5,380 1 1,200 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0 1,500 0	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	2,035 30 218 314 2, 2 218 314 2, 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
NONE   NOE   NONE   N	7 1 065 500 500 5 520 7,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,	23. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	Z,055 30 Z18 514 Z,050 30 Z18 514 Z,050 30 Z,050 S,050 Z,050 Z,050 Z,050 Z,050 Z,050 Z,050 Z,050 Z,050 Z,050 Z
MILY WORKER ANNUAL INCOME THE TOTAL	1/1 0/4 1 066 500* 960 0 2,526 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2/2 2	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	2,033 30 218 314 Z, 2, 2033 30 218 314 Z, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
FAMILY WORKER  NO. 1 - RAFILY Sale Of Croops farm Wither Total  No. 1 - RAFILY Sale Of Croops farm Wither Total  No. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	0 1/1 0/4 1 066 500* 960 0 2,526 0 2/3 2/4 2/5 2/540 0 0 4,000 2,526 0 2/3 2/4 2/540 0 0 4,000 2,526 0 2/3 2/4 2/540 0 0 4,000 2,526 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0 1/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2	2.7.2	2,033 30 218 314 Z, 2, 2033 30 218 314 Z, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
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Color   Family   Morker   Monual   Incone   Monual   Incone   Monual   Incone   Monual   Incone   Monual   Incone   Monual   Mo	0.0 1/1 0/4 1,066 500* 960 0 2,526 0.0 1/2 0/4 2/6 500* 960 0 2/3 2/4 2/6 2/380 0 0 4,000 5,380 0 0 0 1/5 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.1 Z,033 30 ZIS 514 Z, 0.1 Z,033 30 ZIS 514 Z, ZIS 514 Z, Z, ZIS Z,
THE FAMILY WORKER ANNUAL INCOME OF THE TOTAL STATE	0 0.0 1/1 0/4 1 066 500* 960 0 2,526 0 0.0 2/4 2/6 2/540 0 0.0 2/4 0/7 1,580 0 0.0 2/4 0/7 2/6 2/540 0 0.0 2/3 2/4 0/7 2/540 0 0.0 2/3 2/4 2/540 0 0.0 2/3 2/4 2/540 0 0.0 2/3 2/4 2/540 0 0.0 2/3 2/4 2/540 0 0.0 1/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5	2.7.2	0 0 1 2,033 30 213 314 2, 093 30 213 314 2, 093 308 2015 10 10 10 10 10 10 10 10 10 10 10 10 10
THE FAMILY WORKER ANNUAL INCOME OF THE TOTAL STATE	0 0 0 1/1 0/4 1 066 500* 960 0 2,526 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	.0 0.1 2,033 30 218 314 2, 239 30 218 514 2, 239 30 218 514 2, 239 30 30 30 30 30 30 30 30 30 30 30 30 30
THE FAMILY WORKER ANNUAL INCOME OF THE TOTAL STATE	0 0.0 1/1 0/4 1 066 500* 960 0 2,526 0 0.0 2/4 2/6 2/540 0 0.0 2/4 0/7 1,580 0 0.0 2/4 0/7 2/6 2/540 0 0.0 2/3 2/4 0/7 2/540 0 0.0 2/3 2/4 2/540 0 0.0 2/3 2/4 2/540 0 0.0 2/3 2/4 2/540 0 0.0 2/3 2/4 2/540 0 0.0 1/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5 0/4 2/5	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	.0 0.1 2,033 30 218 314 2, 239 30 218 514 2, 239 30 218 514 2, 239 30 30 30 30 30 30 30 30 30 30 30 30 30
PROPPING FAHILY WORKER ANNUAL INCOME NOT THE TOTAL TOT	0.0 0.0 1/1 0/4 1,066 500* 960 0 2,526 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0.1
PING FAHILLY WORKER ANNUAL INCOME NO. UP FRMILE Sale of Crobs Farm Uther Total Form of the Family Sale of Crobs Farm Uther Total Form of the Family Sale of Crobs Farm Uther Total Form of the Family Sale	0.0 0.0 1/1 0/4 1,066 500* 960 0 2,526 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1 0.0 0.1 2,033 30 21% 314 2, P. AVETAGE OF OTHER CROPS PACING THE MESON SALE OF 11VESTOR
CROPPING FAMILY WORKER ANNUAL INCOME AREA TO THE TOTAL ANNUAL INCOME TO THE TOTAL ANNUAL INCOME TO THE TOTAL ANNUAL INCOME TO THE TOTAL AND TH	3 6.0 0.0 1/1 0/4 1,066 500* 960 0 2,526 50.0 0.0 1/1 0/4 1,066 500* 960 0 2,526 50.0 0.0 2/4 2/6 2,540 0 0.0 1/2 1/280 0 0.0 1/2 1/280 0 0.0 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/280 1/2 1/280 0 0.0 1/2 1/280 1/2 1/280 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	88 9000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OF AVERAGE SAIF OF OTHER CROPS EVELUE WEARS SAIF OF LIVESTOR
PROPPING FAHILY WORKER ANNUAL INCOME NOT THE TOTAL TOT	0.0 0.0 1/1 0/4 1,066 500* 960 0 2,526 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	OF AVERAGE SAIF OF OTHER CROPS EVELUE WEARS SAIF OF LIVESTOR
CROPPING FAMILY WORKER ANNUAL INCOME AREA TO THE TOTAL ANNUAL INCOME TO THE TOTAL ANNUAL INCOME TO THE TOTAL ANNUAL INCOME TO THE TOTAL AND TH	3 6.0 0.0 1/1 0/4 1,066 500* 960 0 2,526 50.0 0.0 1/1 0/4 1,066 500* 960 0 2,526 50.0 0.0 2/4 2/6 2,540 0 0.0 1/2 1/280 0 0.0 1/2 1/280 0 0.0 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/280 1/2 1/280 0 0.0 1/2 1/280 1/2 1/280 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/280 0 0.0 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	88 9000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.1 0.0 0.1 Z.055 50 ZIS 514 Z. n OF AVEFAGE in SAIF OF OTHER CROSS SACTURING NO MEANS SAIF OF FIVESTOC
CROPPING FAHILLY WORKER ANNUAL INCOME AND AND AN INCOME AND	0.3 6.0 0.0 1/1 0/4 1 066 500, 960 0 2,526 1.5 0.0 0.0 2/4 2/6 2,540 0 0.0 150 0 2,680 1.5 0.0 0.0 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.1 U.0 U.1 Z.USS SU ZIS SI4 Z. ERA OF AVERAGE CANDS EXCITEIVELY MEANS SAIE OF LIVESTOC
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CROPPING FAHILY WORKER ANNUAL INCOME TOTAL ANEA OF FAMILY WORKER ANNUAL INCOME TOTAL AND THE FEMALE Paddy Others Horks (1) For 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.3 6.0 0.0 1/1 0/4 1 066 500, 960 0 2,526 1.5 0.0 0.0 2/4 2/6 2,540 0 0.0 150 0 2,680 1.5 0.0 0.0 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	3.4 1.1 0.0 0.1 Z,055 50 Z1S 514 Z,
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CROPPING FAMILY WORKER ANNUAL INCOME CROPPING FAMILY WORKER ANNUAL INCOME FAMILY WORKER ANNUAL INCOME WITH THE PRODUCTODS FAIR WORKS (1) FOUND 1 COUND	3 0.0 0.0 0.3 0.0 0.1 1 1.2 0.0 0.1 1 1.0 0.1 1 1.0 0.2 1.0 0.2 1.0 0.0 0.0 0.3 0.0 0.0 0.0 1.1 1.2 0.0 0.0 0.0 1.2 1.2 1.2 1.0 0.0 0.0 0.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	2 0.1 0.4   1.1 0.0 0.1   2,055 50 218 514 2, 2   1 HNHean or Average   2   2,055 50 1   1   1   1   1   1   1   1   1   1
CROPPING FAHILY WORKER ANNUAL INCORE LAND AREA NO. UP FRAILY Sale of Crops Farm Utter Total Angle Total Annual Incore Construction of the Construc	3 0.0 0.0 0.3 0.0 0.1 1 1.0 0.0 1 1 0.0 0.0 1 1 0.0 0.0	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 0.1 0.4   1.1 0.0 0.1   2,055 50 218 514 2, 2   1 HNHean or Average   2   2,055 50 1   1   1   1   1   1   1   1   1   1
CROPPING FAHILY WORKER ANNUAL INCOME INCOME TAND ALL SATE OF CTOPS FATE TOTAL	0.3 0.0 0.0 0.3 0.0 0.1 1 0.4 1,066 500* 960 0 2,526 0 0.4 0.0 0.0 0.1 1.2 0.0 0.0 1.1 1.2 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.2 1.3 0.0 0.0 1.3 1.3 0.0 0.0 1.3 1.3 0.0 0.0 1.3 1.3 0.0 0.0 1.3 1.3 0.0 0.0 1.3 1.3 0.0 0.0 1.3 1.3 0.0 0.0 1.3 1.3 0.0 0.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	2 0.1 0.4   1.1 0.0 0.1   2,055 50 218 514 2, 2   1 HNHean or Average   2   2,055 50 1   1   1   1   1   1   1   1   1   1
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TABLE C. 4-4 PRODUCTION COST OF RICE IN EX-AMOL & BABOL SHAHRESTANS IN 1989, 1990 & 1991

TOTAL	ANNUAL INPUT	PER HECT	ARE PADDY		IN THE PRO	DJECT AREA	
YEAR AREA TO	TALCOST MACH	INERY macl	nine % MAN	LABOR	labour %	OTHER INPUT	d.o.%
1989 AMOL BABOL 1990 AMOL BABOL 1991 AMOL BABOL MEAN AMOL BABOL PROJ' AREA	863.3 816.3 749.3 788.1 860.2 755.9 824.3	174.2 222.9 219.7 185.3 201.1 173.1 198.3 193.8 207.2	26.3% 25.8% 26.9% 24.7% 25.5% 20.1% 26.2% 23.5% 25.7%	432.5 534.0 508.5 478.3 517.9 596.1 486.3 536.1 520.2	61.9 62.3 63.8 65.7 69.3 64.3 65.0	6 106.4 6 88.1 6 85.7 6 69.0 6 91.0 71.3 94.4	8.5% 12.3% 10.8% 11.4% 8.8% 10.6% 9.4% 11.5% 9.7%
	MANUAL LABO	R COST PEI	R MAN-DAY		IN THE PRO	DJECT AREA	
PRACTICE TO	TAL RATE PL	OWING NU	RSERY PLA	NTING	WEEDING	HARVESTING	THRESHING
1989 AMOL BABOL 1990 AMOL BABOL 1991 AMOL BABOL MEAN AMOL BABOL PROJ' AREA	6,830 6,982 6,471 7,858 7,452 6,828 6,917		5,566 4,364 4,906 3,700 6,183 6,346 5,551 4,803 5,328	5,121 8,434 7,963 7,645 8,015 8,779 7,033 8,286 7,407	7,113 7,647 5,671 5,797 6,009 6,449 6,264	9,724 10,885 8,358	5,849 6,551 8,301 8,345 11,520 9,371 8,557 8,089 8,417
	bor cost in te as follow			) is es verage			e total 1991

As to the annual increasing rate for total input cost for 1992, official prices have been frozen-fixed, hence only the growth in labor wage base is accounted to lead the result; growth rate = 870/8,570 = 10.1%

6,854

5,997 6,830 7,737 (7737 -5997)/2 = 870 Rial/year 2 x 870 = 870 Rial/year

8,570 R/man-day

 $10.1\% \times 520.2/805.5 = 6.5\%$ 

annual rate of wage base increment (7737 -5 estimated mean wage for 1992 = 6830 + 2 x 870 =

TABLE C. 4-5 MARKET PRICE OF RICE BY VARIETY IN AMOL CITY SINCE 1360

	, 1 × 5	Tarom	* .	A	Amol-1 Amol-3						Haraz				
Year	Far	Sha	Esf	Far	Sha	Esf	Far	Sha	Esf	Far	Sha	Esf	Price *		
1360	155	165	165	<del></del>									-		
61	160	190	240			175							110		
61 62	310	260	270	1	60	•									
63	270	270	300	1	70				175				170		
64	360	320	420				190	250	220				200		
65	430	520	620				240	310	400		400	500	225		
66	630	550	570				360	250	220	500	300	280	350		
67	550	490	650	•			220	290	460	280	350	550	320		
68	730	870	960				500	500	460	590	580	530	350		
69	1,000	830	900				480	330	470	560	470	550	360		
70	900	1					540			580			400		

Note-1: Unit in rial/kg of rice with less than 10% of broken rice.

Note-2: The year of 1360 is starting from March 21, 1981

Note-3: Far = Farvardin (1st Iranian month)

Sha = Shahrivar (6th month), Esf = Esfand (12th month)

^{*} Guarantee price means that the purchasing price of rice, mainly Amol-3 in case of Amol area, by the public sector/s.

TABLE C. 4-6 FARM-GATE PRICE FLUCTUATION IN 1991-92 IN THE PROJECT AREA

						UNIT: RIAL / KG	
YEAR/MONTH	TAROMRICE	KHAZAR	HARAZRICE	TAROMASGRI	AMOL-3	WHEAT BARLEY	
1991 AUG	855	656	650	607	580	160 115	į
SEPT	841	640	670	535	- 533	160 115	
0CT	920	653	590	535	510	160 115	
NOV	:893	640	580	562	503	160 115	,
DEC	915	685	605	620	490	160 115	١.
1992 JAN	982	707	590	640	509	185 115	
FEB:	1,134	840	640	735	558	185 135	
MAR	1,209	920	675	825	580		
APR	1,233	1,030	758	783	640	185 135	
MAY	1,363	1,118	860	937	685	160 105	
JUN	1,263	1,125	860	947	700	160 107	
JUL	1,080	950	800	920	680		
YEARAVERAG	1,057	830	690	721	581	168 118	į
PADDY-			4				
EQUIVALENT	661	519	431	450	363	- -	
VELD /MONTH	I DTTUAD	CHCHKDED	nnO.inneisi	DOU D DOAM	O I DI TO	ορμα μπιπ αρμα μτι ν	
YEAR/MONTH	LETTUCE		BRUADBEAN	DRY B.BEAN		COWS MEAT COWS MILK	
1991 AUG		150	-	320	300	2,300 150	
SEPT	-	185		320	350	2,300 150	
OCT NOW	-	300	-	320	550	2,350 150	
NOV	-	300	•	320	600	2,400 150	
DEC	*	·	. • -	320	600	2,650 150	
1992 JAN FEB	100	000		320	600	2,900 170	
	100	900	-	320	600	3,300 170	
MAR	70	600		320	600	3,450 170	
APR	90	400	100	320	375	3,450 200	
MAY	-	250	100	320	225	3,670 200	
JUN		180	120	320	225	3,670 200	
JUL	071	125	110	320	200	3,700 200	
YEARAVERAG	87	633	110	320	525	3,400 180	1

### TABLE C. 4-7 COST ESTIMATION FOR WITH-PROJECT CROP PRODUCTION COST IN THE PROJECT AREA

### 1. CALCULATION OF ACREAGE COVERED BY A SET OF MACHINERY

MACHINERY SIZE	E/WIDTH PEAI	K PERI-	ANNUAL	FIELD WORK	SPEED OF	MAX.COVER-	NUMBER
	OD 01	3: ₩ORK O	.P.DAYS	EFFICIENCY	OPERATION	AGE (ha) OF	SET/ha
TRANSPLANTER							
ing the factor of the			45	0.58	0.55	99.2	0.02
PADDY COMBINE							
	1.7 Sep		41	0.65	0.74	96.6	0.02
PADDY TRACTOR	65 HP Apr	6 -					• • • •
	2.4 Jun	e 6	52	0.70	0.65	163.5	0.01
NURSERY SET	1200box Mar	30 - 2	1 x 1.5t	imes/year,	11.5 manda	ys/1200boxes	
	May	19	32	days	1.00		0.15
note: plot	size avera	ges at 0	.4ha, or	erating hou	irs per day	8 hours, fi	eld
	ciency adjus						
	f operation						
						equipped per	100 ha
is d	etermined a	s double	the max	imum covera	age for use	er's convenie	nce

# 2. ESTIMATED DEPRECIATION OF MACHINERY ABOVE LISTED (in 1000 Rial, ton/set)

MACHINERY	ATTACHMENT	VALUE OF A	VALUE OF B	WEIGHT	FREIGHT INLAN	VD TRANS-	FINAL
Å	в. В		er en grande de	A + B	A + B PORT	COST A+B	VALUE
T.PLANTER	parts 15%	9,550	1,433	0.65	179	70	11,232
COMBINE	d.o.	35,140	5,587	3.16	869	338	41,934
TRACTOR	attachment	19,100	22,406	4.15	1,141	444	43,091
NURSERY	local box	2,261	226	1.80	405	193	3,085

# 3. ESTIMATED FINANCIAL DEPRECIATION COST PER HA (1000 Rial, ha)

MACHINERY	<b>VALUE/SET</b>	ha/MACHINE	VALUE/ha	HOURS/YEAR	LIFE(hrs)[	EPRECIATION/h	a (hr)
T.PLANTER	11,232	0.02	224.6	360	2,700	38.1 (7.	93)
COMBINE	41,934	0.02	838.7	328	3,000	138.0 (33	3.2)
TRACTOR	43,091	0.01	430.9	416	3,600	69.1 (28	(6.6)
NURSERY	3,085	0.15	462.8	768	7,560	70.7 (1.	.05)
TOTAL MACI	IINERY					315.9 (70	).8)

# 4. ESTIMATED ECONOMIC COST FOR MACHINERY OF PADDY CROPPING (1000 Rial/machinery)

MACHINERY I	FOREIGN.C.	DOMESTIC	CONVERTED	ANNUAL	ECONOMIC N	1A INTENENCE	E TOTAL.
	PORTION	C.PORTION	ECON. VALUE	<b>FUELCOST</b>	FUEL COST	COST/YEAR	ECON.COST
T PLANTER	11,232	0	11,232	6.85	48	842	12,122
COMBINE	41,934	0	41,934	20.40	143	3,145	45,222
TRACTOR	32,318	10,773	40,366	164.40	1,151	3,027	44,544
NURSERY	1,851	1,234	2,773	6.75	47	208	3,028
TOTAL			-	198.40	1,389	7,223	104,916

# COST ESTIMATION FOR WITH-PROJECT CROP PRODUCTION IN THE PROJECT AREA

5. WITH-PROJECT MACHINERY COST	f PER ha PER year	( 1000 Rial )	. Z salaa X
MACHINERY ECONOMIC AREA COVE	- ECON.COST DEPRECI	A- ECON.FUEL ECON.O.	( contd. ) 1. MACHINERY
COST/SET RAGE/SET	PER ha TION/y/ha	a COST/y/ha COST/y/l	na COST/y/ha
T.PLANTER 12,122 50 COMBINE 45,222 50	QOA A 198 (	1 6.85 2.9 0 20.40 10.4	
TRACTOR 44,544 100	445.4 69. 403.7 70.		2 238.7
NURSERY 3,028 7.5	403.7 70.1 1,996.1 315.1	7 6.75 5.3	82.8
TRACTOR 44,544 100 NURSERY 3,028 7.5 TOTAL MACHINERY	1,990.1 315.	1 164.40 5.3 7 6.75 5.3 9 198.40 23.7	7 538.0
6. ESTIMATED WITH-PROJECT LABOR			Rial )
MANUAL LABOR MACHINERY		IRRIGATION POST-HAI	
COMPONENT/ha OPERATION		NG VEST LAB	OR LABOR/ha
man-day/ha 1.2 LABOR WAGE/manday 14.4 FINANCIAL COST / ha 17.3 conversion factor 0.906	6.7 5.	6 4.9 2.	5 20.9
LABOR WAGE/manday 14.4	5.5 6.	5 4.6 9.0	0 40.0
FINANCIAL COST / ha 17.3	36.9 36.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
ECONOMIC COST / ha 15.7	13.9	7 8.5 8.1	
7. ESTIMATED WITH-PROJECT OTH	ER INPUT COST PER h	a PER year ( 1000 K	ial)
KIND OF INPUT PADDYSEED			
MAJOR INPUT NAME Amol -3	urea satarn 350 1	per ha heat dri	
QUANTITY/ha/year/kg 30 UNIT INPUT COST/kg 0.805	350 1	5 12000cu.m 0 0.003 10.16	
FINANCIAL COST / ha 24.15	6.65 24.0	00 30.00 10.10	
FINANCIAL COST / ha conversion factor CONOMIC COST / ha 24.15 0.906 21.880	0.981 1.00	00 0.482 0.77	4
ECONOMIC COST / ha 21.880	6.524 24.00	0.482 0.77 00 14.460 7.87	0 74.734
MAJOR INPUT NAME benlate	D.A.P. diazino		TOTAL INPUT COST
: OULDITTTV /L _ / O E	100 . 1	2 0.5manday 1	2
LINTE INDIT COST / La 1 650	0.025 0.32	25 2 500 0.01	
FINANCIAL COST / ha 0.825	2.500 $3.90$	00 4.250 0.18	
FINANCIAL COST / ha 0.825 conversion factor 1.000 ECONOMIC COST / ha 0.825	0.981 1.00 2.453 3.00	$\begin{array}{cccc} 00 & 0.376 & 7.00 \\ 00 & 1.598 & 1.26 \end{array}$	0 0 84.769
ECONOMIC COST 7 Ha 0.020	2.400 5.00	0 1.000 1.20	0 04.703
8. PROPOSED WITH-PROJECT PROD	UCTION COST PER ha	PER year ( 1000 Ria	1)
	MAN'LABOR OTHER IN		ST per cent
FINANCIAL PRICE 538.0 ECONOMIC PRICE 538.0	135.6 106.	6 780. 8 682.	
ECONOMIC PRICE 538.0	60.1 84.	8 682.	9 87.5

9. PLANNED MAJOR MACHINERY OPERATION COVERING 100 ha / 2 SETS OF MACHINERY

*		The second second		unite • 🎍	nrs/na	⊤ uays/yea	H.
Crop	paddy	paddy	paddy	paddy	paddy	berseem	berseem
Operation				top-dress	ing		collecting
Operation	plowing	puddling	planting	spraying	harvesting	plowing	mowing
Machinery	tractor	d. o. trai	nsplanter	tractor	ATcombine	tractor	tractor
Period in	Mar.10	Apr.10	Apr. 20	Jun.15	Aug. 1	Sept.1	Jan.15
Period out		May 20	May 31	Jul.31	Sept20	0ct.20	Mar.31
Fine Days+	33.0		38.0	43.0	46.0	32.0	51.0
Speed(A) *		3.2		2.6	3.4	1.8	3.6
F.E. (B)	0.70		0.70	0.65	0.70	0.70	0.65
₩.R. (AB)*	4.43	4.57	4.29	4.00	4.86	2.57	5.54
Days/year	27.7	28.6	26.8	25.0	30.4	16.1	34.6
% FineDays	83.9	77.2	70.5	58.1	66.0	50.2	67.9

note: Speed; operation speed of machinery. F.E.; field efficiency W.R.; effectiveworking rate, Days/year; days required to cover 50 ha by a set of machinery, % Finedays; rate of operation on fine days, unit of puddling counted twice, also spraying counted twice = 1.3 x 2, while grass cutting counted as 3 times = 1.2 x 3.

Annual Working Hours and Depreciation per ha by Machinery Calculated from the above shown system of joint use

	Annual Operation Days Covering 50ha	Total hrs per year	Total hrs per ha			Life years
TRACTOR T.PLANTER AT COMBINE	131.9	1055.2	21.1	3,600	293.4	3.4
	26.8	214.4	4.3	2,700	60.5	12.6
	28.3	226.4	4.5	3,000	214.8	13.3

note: T.PLANTER; transplaner, out of the cost for tractor, 73.8% account for the share for paddy, and 26.2% that on berseem. AT; Auto-Threshing

Financial Costs of Machinery Use by the System of 2 sets/100ha as Shown Above

Machinery Annual Cost in 1000 Rial/50ha Total Cost Crop Income/ha/year Rate of Fuel etc. Operator Spareparts /ha/year* Paddy + Berseem MachinCost

TRACTOR	896.9	1118.5	1455.3	362.8			
T.PLANTER	27.9	227.3	133.7	68.3	3222.0	1320.0	14.6%
AT COMBINE	113.2	240.0	496.7	231.8			

note: * including depreciation, 152.9 2130.0 256.0 6.4% corresponding data from current farm economy is given the above column.

		moon		NORTODISTORM	1111 017	) WEADING	al trail a T	1 1	M IIU	
input INPUT seeds	STAGE W.O.P. W. P.	kg/ha. * Tarom		a otherPaddy 50 30	Berseem 40 40	Vegetable 1 1	Ę	ean 50 50	Barle	ey 40 0
fertilizer NITROGEN (in urea) PHOSPHATE (in DAP) POTASH (in KCl)	W.O.P. W.O.P. W. O.P. W. O.P. W. P.		90 65 100 0 50	210 160 115 100 0 50	30 20 0 80 0 20	690 690 690 690 50 100	{ {	30 30 30 30 0		50 0 20 0 0
herbicides RONSTAR* (or2-4-D) MACHET chemicals	s W.O.P. W.O.P. W.O.P.		5 40 20	5 5 50 25	0 0 0 0	0 0 0 0		0 0 0 0		0 0 0
DIAZINON HINOZAN BENLATEet (nursery)			30 40 20 30 0	30 40 30 30 0 0	0 0 0 0 0	sevin 15 sevin 15 0 0 0		0 0 0 0 0		0 0 0 0 0
seeds	W.O.P. W. P.		n 111 855	2,239 1,425	218 2,015	4 6		10 17		13
fertilize NITROGEN (in urea) PHOSPHATE (in DAP) POTASH (in KCl) herbicide	W.O.P. W.O.P. W.O.P. W.O.P.	2, 3 2, 8	167 849 287 849 0	9,405 7,599 5,150 4,749 0 2,375	164 1,008 0 4,031 0 1,008	2,519 4,340 2,519 4,340 183 629	]	11 20 11 20 0	÷	17 0 7 0 0 0
RONSTAR* (or2-4-D) MACHET	W.O.P.	1,	141 142 107 570	224 237 2,239 1,187	0 0 0 0	0 0 0		0 0 0		0 0 0 0
chemicals DIAZINON HINOZAN BENLATEet (nursery)		1,	056 140 704 855 0	1,344 1,900 1,344 1,425 0	0 0 0 0 0	0 0 0 0 0		0 0 0 0 0 0 0		0 0 0 0 0

MAJOR

AGRICULTURAL

INPUTS

REQUIREMENT

PER HA

note: use of agricultural chemicals tends to decrease, owing to land consolidation that enables to keep water in bunded fields instead of overflowing, also to prevent water from contamination with chemicals, thereby effluent from paddy field would contain reduced order of fish poison etc.

# APPENDIX D. SOCIO-ECONOMY

# APPENDIX D. SOCIO-ECONOMY

# CONTENTS

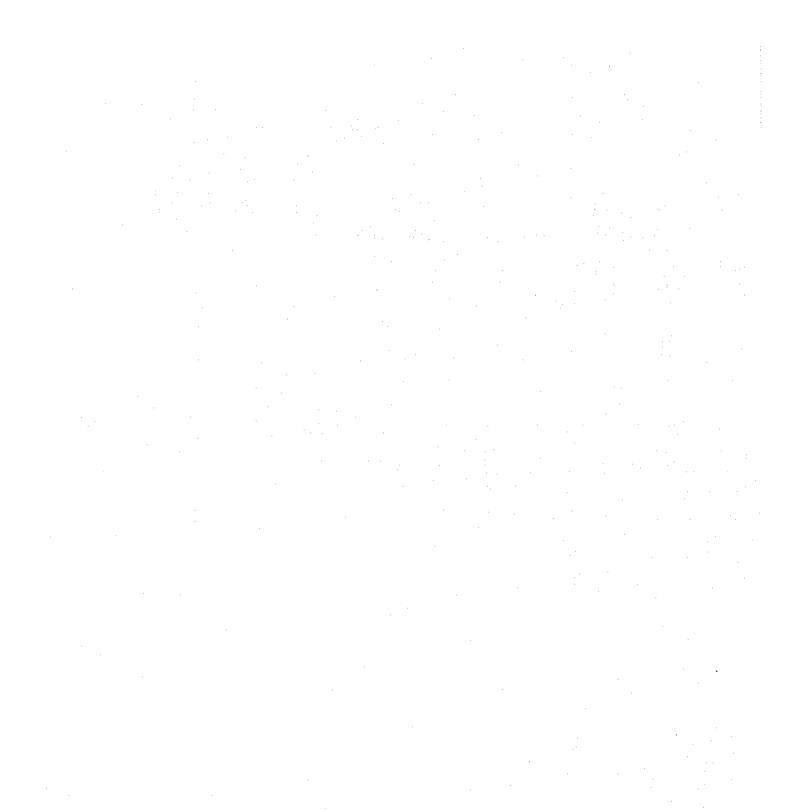
			Page
<b>5.1</b>	Demogr	aphy	
	D. 1. 1	Population in the Project Area	D1-1
N.	D. 1. 2	Age Group Population	D1-2
	٠		
D. 2	Man-Po	wer	D2-1
٠	D. 2. 1.	Population Distribution by Employment Status	D2-1
	D. 2. 2	Population Distribution by Sectors	D2-2
	D. 2. 3	Illiteracy Ratio by Rural & Urban Areas	D2-2
	D. 2. 4	Man-Power Requirement in the Project	D2-3
D. 3	Rural In	stitution & Economy	D3-1
	D. 3, 1	List of Villages in the Project Area	D3-1
	D. 3. 2	Outlook of Rural Cooperatives in the Project Area	D3-3
	D. 3. 3	Record of Receipt of Credit from Bank of Agriculture in the Project Area	D3-3
	•		
D. 4	Rural In	frastructures	D4-1
	D. 4. 1	Availability of Social Infrastructure in the Project Area	D4-1

# LIST OF TABLES

		Page
Table D. 1-1	Summary of Populaton in Project Area	D1-3
Table D. 1-2	Rural Population in the Project Area by Dehstans	D1-4
Table D. 1-3	Rural Population in the Project Area by Irrigation Zones	D1-5
Table D. 1-4	Population of Ex-Amol & Babol Shahrestans by Rural and Urban Areas	
Table D. 1-5	Male: Female Ratio by Age Group Population in Ex-Amol & Babol Shahrestans	D1-7
Table D. 1-6	Family Size Per Household in Ex-Amol & Babol Shahrestans	D1-8
Table D. 1-7	Age Group Population by Rural & Urban Areas in Ex-Amol & Babol Shahrestans	D1-8
Table D. 2-1	Population Distribution by Employment Status in Ex-Amol & Babol Shahrestans	D2-5
Table D. 2-2	Population Distribution by Sectors in Ex-Amol & Babol Shahrestans	D2-6
Table D. 2-3	Illiteracy Ratio by Rural & Urban Areas in Ex-Amol & Babol Shahrestans	D2-7
Table D. 3-1	List of Villages in the Project Area by Dehstans	D3-4
Table D. 3-2	Outlook of Rural Cooperatives in the Project Area	D3-17
Table D. 3-3	Record of Receipt of Credit from Bank of Agriculture in the Project Area by Rural Cooperatives	D3-18
Table D. 4-1	Availability of Social Infrastructure in the Project Area by Dehstans	D4-3
Table D. 4-2	Availability of Social Infrastructure in the Project Area by Irrigation Zones	D4-5

# LIST OF FIGURES

		<u>Page</u>
Figure D. 2-1	Present Farming Labor Requirement	D2-8
Figure D. 2-2	Farming Labor Requirement Under Project	D2-8



#### APPENDIX D. SOCIO-ECONOMY

# D. 1 Demography

# (1) Data Applied

For demographical analysis of the Project Area, the census reports in 1976 and 1986 are available in the Shahrestan level, however these reports are not containing village by village population, which are only available in the Village Gazettes, a supplementary issue of the census reports, but they are not including demographic details.

### (2) Analysis

The population distribution and the increase rates of population in the Rural Area were analyzed by data in the Villages Gazettes in 1976 and 1986. The summarized by the Dehstan and the Irrigation Zone are shown as Tables D. 1-2 and D. 1-3.

The above factors for the Urban Area are available in the census reports.

The urban:rural inhabitants ratio, male: female ratio, family size per household and age group structure are available in the Shahrestan level, which are shown as Tables D. 1-4, D. 1-5, D. 1-6 and D. 1-7, respectively.

Other demographic factors such as the rate of death, the rate of infant death, reproduction rate, etc. are not available in the above data.

### D. 1. 1 Population in the Project Area

Table D. 1-1 shows the summary of population in the Project Area. The total population in the Project Area in 1986 was 425,348 and increase rate of population in 1976-86 was as much as 4.4%. Therefore population in 1992 is assumed as 550,740 if same increase rate is kept. At the same period, the

increase rate of Ex-Amol Shahrestan was 3.6%, therefore the population in the Project Area will be assumed as 525,900 applying the rate of 3.6% per annum. From those two figures, the present population in the Project Area is assumed as between 525,900 and 550,740.

## D. 1. 2 Age Group Population

The summary of age group population in 1976 and 1988 at ex-Amol and ex-Babol Shahrestans are shown in the Table D. 1-7 below, and following demographic characteristics can be read therefrom:

- * During a decade from 1976 to 1986, the population structure in the urban area had a notable change that was considerable increase of ratio in 20-39 years old group.
- * In case of the rural area, a pyramid shape population structure was kept. At the same time, there was a trend of population outflow especially in the younger generation.
- * In total, both Shahrestans had population inflow other than natural increase.

TABLE D. 1-1 SUMMARY OF POPULATION IN PROJECT AREA

	No. of	Popul	Increase Rate o		
and the second second	Village	1976	1986	Population	
AMOL SHAHRESTAN:	77.17490	1010	1000	Topulation	
Amol City		68,963	118,242	5.5%	
Mahmudabad City		7,098	11,856	5.3	
SUB-TOTAL		76,061	130,098	5.5%	
Chalav	3/ 49	1,354	1,979	3.9%	
Bala Khiaban Latikuh	18/ 24	6,843	8,834	2.6	
Poin khiaban Latikuh	39/ 39	11,310	15,835	3.4	
Dasht Sar	54/62	18,320	26, 167	3.6	
Dabu Junubi	90/ 90	27,775	38,680	3.4	
Harazpei Junubi	46/ 46	11,808	16,340	3.3	
Ahlamrostagh	35/ 35	17,544	23,829	3.1	
Harazpei Shomali	33/ 33	15,228	20,774	3.2	
Dabu Shomali	23/ 23	12,503	18, 132	3.8	
SUB-TOTAL	341/401	122,685	170,570	3.4%	
TOTAL OF ANOL		198,746	300,668	4.2%	
BABOLSAR SHAHRESTAN:		•			
Feridon Kenar City		2,607	20,997	23.2%	
Emamzadeh Abudallah	18/ 18	12,225	16,060	2.8%	
Barik Rud	16/ 16	7,084	11,563	5.0	
Rud Bast	19/40	9,565	12,568		
SUB-TOTAL	53/ 74	28,874	40, 191	2.8 3.4 %	
TOTAL OF BABOLSAR		31,481	61,188	6.9%	
BABOL SHAHRESTAN:					
Lalehabad	39/ 49	19,791	26,521	3.0%	
Karipei	58/ 58	27, 357	36, 971	3.1	
TOTAL OF BABOL	97/107	47, 148	63,492	3.0%	
TOTAL PROJECT AREA	491/582	277, 375	425, 348	4.4%	
TOTAL OF URBAN AREA		78,668	151,095	6.7	
TOTAL OF RURAL AREA	* .	198,707	274, 253	3.3	
Babol City		68,059	115,320	5.4%	
Babolsar City		18,810	28,589	4.3%	

TABLE D.1-2 RURAL POPULATION IN THE PROJECT AREA BY DEHSTANS

										٠.									 ·					
INCREASE RATE OF POPULATION	Z	1976-1986 (%)	1 7	3.9	2.6	3.4	3.8	3.4	3.3	3.1	3.2	3.8	3.4		2.8	5.0	2.8	3.4	2.7	3.0	3.1	3.0		5.5
	-	Employed (%)	33.3	22.0	25.7	26.0	21.9	23.6	23.7	23.7	28.0	27.3	24.6		24.2	21.9	27.3	24.5	26.2	28.0	25.8	26.6		ი.62
-	Population	Literacy (%)	34.8	40.1	49.2	48.9	51.7	47.5	51.3	49.2	50.7	50.5	49.8		45.6	48.5	42.5	45.5	42.8	46.7	44.1	45.2		48.U
	Ratio of	8 yrs over(%)	78.8	77.3	81.4	81.7	81.2	78.7	78.6	80.9	80.1	80.2	80.4	-	79.4	79.0	79.1	79.2	82.3	81.2	80.4	80.8	C	80.3
		Employed	22	438	2,268	4,039	5,739	9,115	3,870	5,636	5,808	4,941	41,934		3,881	2,535	3,432	9,848	223	7,422	9,248	16,893		09,675
976 AND 1986	1386	Literacy		793		7,709	13,540	18,381	8,383	11,725	10,532	9,150	84,579		7,328	5, 609	5,338	18,275	365	12,385	15, 929	28,679	1	131, 533
POPULATION IN 1976 AND 1986	Population in l	6 yrs over	52	1.530	7,195	12,878	21,254	30,841	13,002	19, 285	16, 636	14,550	137, 223		12,755	9,137	9,942	31,834	701	21,541	28,048	51,290	***************************************	220,347
ρ.	Δ	Total	yy	1.979	8,834	15,769	26, 167	38,680	16,340	23,829	20,774	18,132	170,570		16,060	11,563	12,568	40,191	852	26,521		63,492	t .	274,253
	1976	Total	77	1.354	6,843	11,268	18,320	27,775	11,808	17,544	15,228	12,503	122,885		12,225	7,084	9,565	28,874	853	19,791	26,704	47,148		188,707
REFERENCE CODES		Dehstan	117	DN001	DN002	DNOO3	DN004	DNOOS	DNOOG	DN007	DN008	DN009	Sub-total		DIONO	DNO11	DN012	Sub-total	98	DN013	DNO14	Sub-total		INTAL.

TABLE D. 1-3 RURAL POPULATION IN THE PROJECT AREA BY IRRIGATION ZONES

REFERENCE CODES	1020		POPULATION IN	1976 AND 1986		· · · · · · · · · · · · · · · · · · ·			INCREASE RAT OF POPULATIO
Irrisation	1976		Population in	1986		Ratio of	Population		18
zone	Total	Iota	6 yrs over	Literacy	Employed	6 yrs over(X)	Literacy (X)	Employed (X)	1976-1986 (X
H#UI	860	1 100	001						
HYU2	494	1,186 793	321 603	507 286	266	77.7	42.7	22.4	3.
HYU3	721	1.010	823		170	76.8	36.1	21.4	4.
Sub-total	2.075	2,989	2,353	501 1.294	222 658	81.5 78.7	49.6 43.3	22.0 22.0	3.
	11 1 1 1 1 1 1 1				000	1011	40.0	22.0	3.
HV1	1,264	1,623	1.306	721	493	80.5	44.4	30.4	2.
HW2	7.187	9,861	8,040	4.710	2,551	81.5	47.8	25.9	3.
H#3	7,798	10,106	8.187	5.085	2,520	81.0	50.3	24.9	2,
884 885	3,312	4.792	3.884	2.299	1,268	81.1	48.0	26.5	3.
HT6	2,470 2,299	4,003 3,164	3,240	2, 190	870	80.9	54.7	21.7	4.
Sub-total	24,330	33.549	2,572	1.715	789	81.3	54.2	24.9	
Total of SE	26,405	36,538	29,582	18,014	8,491	81.2	49.8	25.3	3,
KLI	227	334	262		9, 149	81.0	49.3	25.0	3.
KL2	91	156	124	143	91 28	78.4	42.8	27.2	3.
XL3	8.551	11,399	9, 283	5,402	2,606	79.5	44.2	17.9	5,
KL4	8.073	10,274	8,272	4,667	2,576	81.4	45.4	22.9 25.1	2.
KL5	4.166	7,593	5,971	3.044	1.931	78,6	40.1	25.4	6.
KL6	4.603	5,907	4,831	2,986	1,796	81.8	50.6	30.4	2.
Sub-total	25,711	35,663	28,743	16,311	9,028	80.6	45.7	25.3	3.
XR2	642	862	697	388	209	80.9	45.0	24.2	3.
KR3	2.035	3,873	3,098	1,897	500	80.0	49.0	12.9	6.
XR4	7,235	9,482	7,700	4,214	2,792	81.2	44.4	29.4	2.
KR5	4,364	5,258	4,354	2,461	1,760	82.8	46.8	33.5	<u> </u>
Sub-total	14.276	19,475	15,849	8,960	5,261	81.4	46.0	27.0	3.
HE1	8,918	12,928	10,262	6,461	2,823	79.4	50.0	21.8	3.
HE2	3,335	4,738	3,757	2.420	1,112	79.3	51.1	23.5	3.
HE3	5,014	6.777	5,589	3,561	1,679	82.5	52.5	24.8	3.
HE4	4,891	8,150	4,977	3,060	1,437	80.9	49.8	23.4	2.
Sub-total	7,366	10,275	8.338	5,161	2,359	81.1	50.2	23.0	3.
300 (0(2)	29,524	40.868	32,923	20,663	9,410	80.6	50.6	23.0	3.
otal of HE,	69,511	98,006	77,515	45,934	23,699	80.7	47.8	24.7	3.
YEI	1,256	1,337	1,088	€62	296	81.4	49.5	22.1	0.
234	1,241	1,568	1,280	815	360	81.6	52.0	23.0	2
AE3	10,902	15,203	12.114	7.250	4.028	79.7	47.7	26.5	3
AE4	9,633	12,459	9,916	5,793	3.082	79.6	46.5	24.7	2
AE5	5,379	8,157	6,484	3,931	1.789	79.5	48.2	21.9	4,
YE6	5,304	6,767	5,463	3,235	1.711	80.7	47.8	25.3	2
JE7 JE8	5,230	6,548	5, 172	2,792	1,390	79.0	42.6	21.2	2
YES	1,777 3,814	2,258	1,822	894	498	80.7	39.6	22.1	2
VE10	2,419	5,840 3,310	4,562 2,645	2,386	1,642	78.1	40.9	28.1	4.
AEII	10.975	16,730	13,309	1.287 7.935	983 4,088	79.9 79.6	38.9 47.4	29.7	3.
Sub-total	57,930	80,177	63,855	36,980	19,870	79.6	46.1	24.8	3.
AWI	2,426	3,290	2,636	1.511	677	80.1	45.9	20.6	3.
AW2	1,211	1.658	1,304	771	372	78.6	46.5	22.4	3
AW3	5, 253	6,709	5,531	3,558	1,529	82.4	53.0	22.8	2
A74	2,723	3,866	3.068	1.813	854	79.4	46.9	22.1	3
A¥5 A¥6	4.356	6.182	4,863	3,204	1,811	80.3	51.8	29.3	3
AN7	2,672 6,308	3,499	2,808	1.567	1,013	80.2	44.8	29.0	2
AW8	1,634	7,901 2,396	6,265 1,895	3,979	2,202	79.3	50.4	27.9	2
AVS	13,567	19,707	15,735	1.124	609	79.1	46.9	25.4	3
Sub-total	40,150	55,208	44,203	9,870 27,395	5,332	79.8	50. )	27.1	3
AÜ Ü	2,823	4,204	3,295	2,193	14,399	80.1	49.6	26.1	3
BU	1,888	2,220	1, 797	1,017	994 564	78.4 80.9	52.2	23,6	4
				1.017	304	60.3	45, 8	25.4	
RANO TOTAL	198,707	274,353	220, 247	131,533	68,675	80.3	48.0	25.0	3

TABLE D. 1-4 POPULATION OF EX-AMOL & BABOL SHAHRESTANS BY RURAL AND URBAN AREAS

		1976			1986		INCREASE RATE
	TOTAL	MALE	FEHALE	TOTAL	MALE		OF POPULATION
EX-AHOL SHAHRESTAN							
URBAN AREA	76,061	39, 363	36,698	131,323	66,448	64.875	5.6%
RURAL AREA	156, 414	78,469	77, 945	201,355	102,042	99,313	2.5
TOTAL	232,475	117,832	114,643	332,678	168,490	164, 188	3.6%
DODAN BUBAL BATTO			•				
URBAN: RURAL RATIO			, i				
TOTAL POPULATION		32.7:67.3			39.5:60.5	r side a light	4.0
MALE POPULATION		33.4:66.6		\$ - A	39.4:60.6		
FEMALE POPULATION		32.0.68.0			39.5:60.5		
	·						
EX-BABOL SHAHRESTAN							
URBAN AREA	113, 592	58,919	54,673	183, 191	92,424	90,767	4.9%
RURAL AREA	235,026	114,722	120,304	304,745	150,896	153,849	2.6
TOTAL	348,618	172,631	174,977	487, 936	243,320	244,616	3.4%
URBAN:RURAL RATIO				•			
TOTAL POPULATION	-	10 0 07 4					
		32.6.67.4			37.5:62.5		
MALE POPULATION		34.1:65.9		4	38.0:62.0	rga e	
FEHALE POPULATION		31.2:68.8			37.1:62.9	٠,	
			and the second second				

TABLE D. 1-5 HALE: FEMALE RATIO BY AGE GROUP POPULATION IN EX-AHOL & BABOL SHAHRESTANS

AGE GROUP	1976	<b>.</b>				198	6	
	Total	Male	<u>Female</u>	M:F Ratio	Total	Male		M:F Ratio
EX-AMOL SHAF		i	1					
WHOLE AREA								
$\sim 9$	77, 773	40, 131	37,642	51.6:48.4	99,802	50,677		50.8:49.2
10~19	57, 055	28,597		50.1:49.9	82,598	42,397		51.3:48.7
20~39	54, 775	26.722		48.8:51.2	92,498	45,991		49.7:50.3
$40\sim59$	32, 282			53.9:46.1	40,658	20,888		51.4:48.6
60~	10, 590	4,967	5,623	46.9:53.1	17, 122	8,537		49.9:50.1
TOTAL	232, 475	117,832	114,643	50.7:49.3	332,678	168,470	164,188	50.6:49.4
RURAL AREA				· 1 · 1				
$\sim 9$	55, 631	28,794		51.8:48.2	59,895	30,514	29,381	50.9:49.1
10~19	36, 227	17,400		48.0:52.0	53.168	27,468	25,700	51.7:48.3
20~39	35, 491	17,230		48.5:51.5	52,522	26,130	26,392	49.8:50.2
40~59	21, 752	11,649		53.6:46.4	24,756	12,388		50.1:49.9
60~	7, 313	3,396	3,917	46.4:53.6	10,987	5,525		50.3:49.7
TOTAL	156, 414	78,469	77, 945	51.1:48.9	201,328	102,025	99,303	50.7:49.3
URBAN AREA	١:							
~ 9	22, 142	11,337	10,805	51.2:48.8	39,907	20,163	19.744	50.5:49.5
10~19	20,828	11, 197	9,631	53.8:46.2	29,430	14,929		50.7:49.3
20~39	19, 284	9,492		49.2:50.8	39,976			49.7:50.3
40~59	10,530	5,766		54.8:45.2	15,902	8,500		53.5:46.5
60~	3, 277	1,571		47.9:52.1	6,135	3,012		49.1:50.9
TOTAL	76, 061	39, 363	36,698	51.8:48.2	131,350			50.6:49.4
EX-BABOL SHA	AHRESTAN							
WHOLE AREA					i .			
$\sim$ 9	112, 499	57,377	55.122	51.0:49.0	148,431	73,817	74.614	49.7:50.3
10~19	88, 178	43,665		49.5:50.5	119,636	59,980		50.1:49.9
20~39	79,060	37, 535		47.5:52.5	129,820	63,608		49.0:51.0
40~59	51,014	26,678		52.3:47.7	62,313	31,648		50.8:49.2
60~	17, 867	8,386		46.9:53.1	27,746			51.5:48.5
TOTAL	348,618	173,641	174,977	49.8:50.2				49.9:50.1
RURAL AREA	<b>1</b> :		٠.					· ·
~ 9	83, 380	42,756	40 624	51.3:48.7	92,432	45,804	46 628	49.6:50.4
10~19	55, 759	25,967		46.6:53.4	81,351	40,708		50.1:49.9
20~39	49, 460		27 085	45.2:54.8	73,458			48. 1:51. 9
40~59	34, 339	17,872		52.0:48.0	39, 956	19,342		48.4:51.6
60~	12,088	5,749		47.6:52.4	17,526	9,659		55. 1:44. 9
TOTAL	235, 026			48.8:51.2				49.5:50.5
UDDAM ADEA			•					
URBAN AREA		14 004		E0 0 40 0	EE 004		05 055	
~ 9 10- 10	29, 119	14,621		50.2:49.8	55,994	28,011		50.0:50.0
10~19	32,419	17,698		54.6:45.4	38,277	19,265		50.3:49.7
20~39	29,600	15 160		51.2:48.8	56,348	28,238		50.1:49.9
40~59	16,675	8,806		52.8:47.2	23, 355	12,304		52.7:47.3
60~ TOTAL	5,779	2,637		45.6:54.4	$\frac{9,227}{102,212}$			50.0:50.0
IOIAL	113, 592	58,919	J4, 673	51.9:48.1	183,213	92,434	90,767	50.5:49.5

TABLE D. 1-6 FAMILY SIZE PER HOUSEHOLD IN EX-AHOL & BABOL SHAHRESTANS

		76	e Alexandria		1986	
	Total Population	No. of Household	Family Size	Total Population	No. of Household	Family Size
EX-AMOL SHAHRESTAN		g 27 - 62				
URBAN AREA	76,061	14, 399	5. 28	131, 323	25, 986	5.05
RURAL AREA	156,414	25, 781	6.07	201,355	33, 239	6.06
TOTAL	232,475	40, 180	5.79	332,678	60, 225	5. 52
EX-BABOL SHAHRESTAN		0.0.00				
URBAN AREA	113, 592	23, 626	4.81	183, 191	38, 555	4.75
RURAL AREA	235,026	40, 803	5. 76	304,745	53,644	5.68
TOTAL	348,618	64, 429	5. 41	487,936	92, 199	5.29

TABLE D. 1-7 AGE GROUP POPULATION BY RURAL & URBAN AREAS IN EX-AMOL & BABOL SHAHRESTANS

	EX-	AMOL SHA	HRESTAN		٠.	EX	-BABOL SI	IAHRESTAN	1 1 1
AGE GROUP	1976	)	198	6		197		198	6
WHOLE AREA:								199	
$\sim 9$	77, 773	33.5%	99,802	30.0%		112,499	32.3%	148, 431	30.4%
10~19	57, 055	24.5	82,598	24.8		88, 178	25.3	119,636	24.5
20~39	54, 775	23.6	92,498	27.8		79,060	22.7	129,820	26.6
$40 \sim 59$	32, 282	13.9	40,658	12.2		51,014	14.6	62,313	12.8
60~	10,590	4.5	17, 122	5.2		17,867	5.1	27,746	5.7
TOTAL	232,475	100.0%	332,678	100.0%	: 1	348,618	100.0%	487, 936	100.0%
							1.1		
RURAL AREA:						2.5		: :	±
$\sim 9$	55,631	35.5%	59,895	29. 7%		83,380	35.5%	92,432	30.3%
10~19	36, 227	23.2	53. 168	26.4	ť.	55,759	23.7	81,351	26.7
20~39	35, 491	22.7	52,522	26. 1	•	49,460	21.0	73,458	24.1
40~59	21, 752	13.9	24,756	12.3		34,339	14.6	39,956	13. 1
60~	7, 313	4.7	<u>10,987</u>	5.5		12,088	5.2	17,526	5.8
TOTAL	156, 414	100.0%	201,328	100.0%	*.	235,026	100.0%	304,723	100.0%
		•	· .		٠.	147			14 A. A.
URBAN AREA:									
~ 9	22, 142	29.1%	39,907	30.4%		29, 119	25.6%	55,994	30.6%
10~19	20,828	27.4	29,430	22.4	٠.	32,419	28.5	38,277	20.9
20~39	19, 284	25.4	39,976	30:4		29,600	26. 1	56,348	30.8
40~59	10, 530	13.8	15,902	12. 1		16,675	14.7	23, 355	12.7
60~	3, 277	4.3	6,135	4.7		5,779	5. 1	9,227	5.0
TOTAL	76,061	100.0%	131,350	100.0%		113,592	100.0%	183, 201	100.0%

#### D. 2 Man-power

## (1) Data Applied

Only available data are the census reports of Shahrestan level in 1976 and 1986.

#### (2) Analysis

The man-power characteristics in the Project Area are to be assumed from 3 points of employment status, employment by sectors and quality of man-power, which are summarized in the Tables D. 2-1, D. 2-2 and D. 2-3, respectively.

#### D. 2. 1 Population Distribution by Employment Status

The meaning of Economically Active Population (EAP) in the Table D. 2-2 is assumed as the population willing/allowed to work. From such point of view, the two neighboring Shahrestans of Amol and Babol have notable difference as below:

- * The ratio of EAP to the total population in Amol was increased from 35.3% in 1976 to 38.8% in 1986, but those of in Babol was decreased from 44.5% to 38.9%. The reason is mainly change of women's position in the rural area, viz., 32.7% of female in rural area was the EAP in 1976 but it decreased to 13.2% in 1986. In case of the urban area, female of both Shahrestans showed a trend of increase.
- * The ratio of unemployed in the EAP in 1976 at Amol and Babol were 37.2% and 63.2%, respectively, due to high ratio of unemployed in the rural area, 52.5% in Amol and 82.3% in Babol. Those figures are not considered as reasonable, but to be assumed that most of rural inhabitant, mainly farmer, are willing to have better employment opportunity in 1976.
- * The actual ratio of unemployed in 1986 were 9.5% in Amol and 10.4% in Babol, but in the rural area were 7.6% and 8.8%, respectively. In case of the urban area, both Shahrestans showed a trend of increase of unemployed.

* The ratio of employed in total population in the Project Area is shown in the Tables D. 1-2 and D. 1-3. Although some fluctuation was shown by the Dehstan from 21.9-28.0%, the mean ratio was 25%.

#### D. 2. 2 Population Distribution by Sectors

As shown in Table D. 2-2, 24.9% in Amol and 13.8% in Babol of the employed were engaged in Agriculture, Forestry, Hunting & Fishery Sector in 1976, but those in 1986 were 43.3% and 47.7%. This is most notable change in the two census periods.

Another notable change was No. of employed in Social Services Sector that was more than doubled regardlessly in the rural or urban areas in both Shahrestans.

The increase of No. of employed in Manufacturing Sector were also considerable, it was doubled in Amol, but the ratio were 8.9% in Amol and 7.4% in Babol in 1986.

No. of employed in Retail Dealer, Hotel, Restaurant, etc. were increased considerable especially in the urban area of Amol. But the ratio were 7.6% in Amol and 6.3% in Babol and those in the urban area were 16.3% and 14.3%, respectively.

In general, the changes in Amol Shahrestan was more notable than Babol Shahrestan. In other words, Amol has been developing toward the urban type employment.

#### D. 2. 3 Illiteracy Ratio by Rural & Urban Areas

The illiteracy ratio is considered as one of the index to assume the quality of man-power.

The illiteracy ratio in over 6 years old population have been decreased regardless to the place of living or sex in both Shahrestans. Those in Amol were 48.7% in 1976 and 34.2% in 1986, and those in Babol were 51.4% in 1976 and 36.0% in 1986.

But, the gap in the living place or sex were still notable, viz., 39.0% of the rural inhabitant in Amol were illiteracy in 1986, but that in urban area was 26.7%. In case of Babol, those ratio were 42.1% and 25.7%, respectively. 25.7% of male and 42.9% of female in Amol were illiteracy in 1986, and those ratio in Babol were 28.9% and 43.1%, respectively.

Tables D. 1-2 and D. 1-3 show the literacy ratio in the Project Area in 1986, and it varies from 40.1% to 51.7% by Dehstan and by Irrigation Zone.

# D. 2. 4 Man-power Requirement in the Project

No. of employed in Agriculture Sector in the Project Area is assumed from the No. of employed in the rural area and the ratio of employment by sectors shown in the above Tables D. 1-2 and D. 2-2, respectively. Consequently, the employed in agriculture sector in 1986 is estimated as below:

Ex-Amol area 
$$41,934 \times 0.666 = 27,928$$
  
Ex-Babol area  $26,755 \times 0.689 = 18,434$   
Total  $46,362$ 

Note: Above figures of employed include employment in forestry, fishery and hunting other than farming, however No. of non-farming employment is considered as almostly same as farming population in urban area. Therefore above figure of 46,362 is considered as exclusive of non-farming employment.

On the other hand, the rate of population increase in the Project Area in 1976 - 86 was 3.3%. Assuming the rate of absorption in agriculture sector after 1986 as 1.6%, a half of the increase rate of population, the employed in agriculture sector in 1992 will be estimated as 51,000. The present labor demand in agriculture in the Project Area is as shown in Figure D. 2-1, and there are some shortage of labor in mid April- mid-May period and September when the labor demand reach to the peak for transplanting and harvesting.

Figure D. 2-2 shows the labor requirement at the completion of efficient farm mechanization under the Project. In such case, the peak demand will be appeared in May, and total requirement will be about 23,500 men per day or about 46% of that in 1992.

The Project will provide new employment of about 8,500 as detailed below:

Cattle rearing	118,200	head	1	50 =	2,400
Forage preparation	1,993,500	ton*	F	500 =	4,000
Straw preparation	43,900	ton	/1	= 000,	50
Packing of vegetables	53,200	ton	1	100 =	550
Maintenance of					
large agri-machiner	y 4,560	stand	1.	3 =	1,500
			٠		8,500

* in fresh grass weight

Adding such employment to the peak demand of mechanized farming under the Project, there will be a peak labor demand of 32,000 in total, however it is about 63% of assumed employed in 1992. Consequently, additional employment opportunity of 19,000 will be needed even if the increase of employment in the agriculture sector is not expected.

However, it is obvious from Figure D. 2-1 that the employment in agriculture sector is concentrated in transplanting season of April - May and harvesting season of September at present, and such concentration of labor demand is causing the increase of production cost which makes farmer's net income be decreased. Except those peak demand periods, the Project will provide more stable employment opportunity.

To provide employment opportunity for those surplus labor produced from farm mechanization, it is necessary to study more comprehensively taking the potential employment in and out of the Project Area into consideration.

In 1970s, there was a trend of production decrease and stagnation of farming activities in the country due to shortage of man-power, therefore forecasting of labor requirement based on the present employment status which is considered as country-wide stagnation of economical activities will misconduct the real labor demand in the projected year.

It is assumed that the employment opportunity in industry and construction sectors as well as sector of related services will rapidly be increased in accordance with the stabilization of country's economy, therefore the above mentioned surplus labor will also be absorbed in other sectors.

TABLE D.2-1 POPULATION DISTRIBUTION BY EMPLOYMENT STATUS IN EX-AMOL & BABOL SHAHRESTANS

							•
	1986 1986	8, 399 3, 997 4, 402	5, 675 2, 325 3, 350	2,719 1,668 1,051	17, 352 7, 776 9, 576	2, 585 5, 049 7, 516	4,892 2,833 2,059
	01HERS 1976 19	3,888 2,213 1,675	2,630 1,271 1,359	1,258 942 316	3,755 1,950 1,805	2,208 ' 933 ' 1,275	1,547
	RED 1986	2, 751 2, 023 728	1,267 849 418	1,484 1,174 310	4, 423 3, 066 1, 357	2, 371 1, 430 941	2,052 1,636 416
	RET1R 1976	2,543 1,775 768	1,620 1,009 611	923 766 157	5,859 3,149 2,710	3,785 1,757 2,028	2,074 1,392 682
30117	1988	47, 900 26, 750 21, 150	27, 506 16, 153 11, 353	20, 394 10, 597 9, 797	74, 738 40, 819 33, 919	46, 155 25, 836 20, 319	28, 483 14, 883 13, 600
	STUDENT STUDENT 1976 19	33,642 21,424 12,218	16, 777 11, 480 5, 297	16, 865 9, 944 6, 921	54, 561 35, 441 19, 120	28, 565 18, 910 7, 855	27, 998 16, 531 11, 465
1		83, 539 1, 031 82, 508	53, 088 686 52, 402	30, 444 345 30, 099	111, 025 5, 370 105, 655	67, 685 3, 425 64, 260	43, 336 1, 945 41, 391
	CONOMICALLY HOUSE KEET 1976 18	59, 988 0 59, 988	43, 125 43, 125	16, 863. 0 16, 863	66, 811 1 0 66, 811 1	42, 657 42, 657	24, 154 0 24, 154
ì	1986	142, 589 33, 801 108, 788	87, 536 20, 013 67, 523	55,041 13,784 41,257	207, 538 57, 031 150, 507	128,776 35,674 93,036	78, 763 21, 297 57, 466
	101A 1976	100,061 25,412 74,649	64, 152 13, 760 50, 392	35, 909 11, 652 24, 257	130, 986 40, 540 90, 446	75, 215 21, 600 53, 615	55, 771 18, 940 36, 831
	107E0 1986	8,576 6,991 1,585	4,101 3,577 524	4, 475 3, 414 1, 061	13, 711 · 10, 743 2, 968	7, 319 5, 910 1, 409	6, 391 4, 832 1, 559
	UNEMP 1976	20,342 19,925 417	19,221 18,888 333	1,121 1,037 84	66, 485 41, 631 24, 854	62,873 38,448 24,425	3,612 3,183 429
11011	0VED 1986	81,711 77,021 4,690	49,796 47,921 1,875	31, 912 29, 097 2, 815	118,266 101,739 16,527	76, 206 63, 438 12, 768	42,053 38,294 3,759
4	978	34,299 32,364 1,935	17,410 17,027 383	16, 889 15, 337 1, 552	38, 648 1 34, 093 1 4, 555	13,558 11,918 1,640	25,090 22,175 2,915
F 0 4 27 - 24	1 AC 986	90,287 84,012 6,275	53,897 51,498 2,399	36, 387 32, 511 3, 876	131, 977 112, 482 19, 495	83,525 69,348 14,177	48, 444 43, 126 5, 318
0 15 CA CO L	1976	54, 641 52, 289 2, 352	35, 631 35, 915	18,010 16,374 1,636	105, 133 75, 724 29, 409	76, 431 50, 386 26, 065	28, 702 25, 358 3, 344
		MHOLE) 232,876 117,813 115,063	141, 433 71, 511 69, 922	91, 428 46, 295 45, 133	(WHOLE) 339, 515 169, 513 170, 002	212, 301 105, 088 107, 213	127, 207 64, 423 62, 734
	GRAND 1976	SHARKESIAN(WHOL 154,702 232, 77,701 117, E 77,001 115,	AREA 100, 783 49, 675 51, 108	REA 53,919 28,026 25,893	SHAHRESTAN (WHOLE 236,119 339,511 116,264 169,51	. 966 966 680	473 298 175
		TOTAL MALE FEMALE	DO-RURAL A TOTAL HALE FEMALE	DO-URBAN AREA TOTAL 53 MALE 28 FEHALE 25	EX-BABOL SI TOTAL MALE FEMALE	DO-RURAL AREA TOTAL 151 MALE 71	DO-URBAN AREA TOTAL 84 MALE 44

TABLE D.2-2 POPULATION DISTRIBUTION BY SECTORS IN EX-AMOL & BABOL SHAHRESTANS

S.		EX-AMO	L SHAHRES	RTAN		FY-RAR	OL SHAHRE	STAN
	19		19		19'		198	
WHOLE AREA:						·		
AGRICULTURE, FORESTRY,						-		
HUNTING & FISHERY	8,546	24.9%	35,384	43.3%	5, 346	13 8%	56, 448	47 7%
HINING	406	1.2	120	0.1	42		82	0.07
MANUFACTURING	3, 895		7,314		6, 160		8, 756	
CONSTRUCTION	6,678	19.5	6,755		5, 811		6, 651	5.6
ELECTRICITY,	0,010	10.0	0,100	0.0	J, UII	10.0	0, 03 1	J. 0
WATER & GAS	109	0.3	128	0.1	205	0.5	237	0. 2
	100	V. 0	120	V. I	200	V. J	291	V. Z
RETAIL DEALER, HOTEL,	3, 632	10.0	ר מבי	7.6	E 200	10 7	7, 483	6.3
RESTAURANT, ETC.	o, 0oz.	10.6	6,253	7.0	5, 286	13.7	1,400	ნ. ა
TRANSPORT, STORAGE,	0.404	<b>A</b> 0	9.755		0.000		F 755	4.0
COMMUNICATION, ETC.	3, 164	9.2	3,755	4.6	3,632	9.4	5, 755	4. 9
FINANCING, INSURANCE,	25.5	:						
TRADING, ETC.	358	1.0	551		641		1,051	
SOCIAL SERVICES	7, 326	21.4	19,826		11, 442	29.6	28,698	
UNCLASSIFIED	185	0.5	1,691			0.2	3, 255	
TOTAL EMPLOYED	34, 299	100.0%	81,777	100.0%	38,648	100.0%	118, 416	100.0%
RURAL AREA:		1.						
AGRICULTURE, FORESTRY,					*	: .	-	
HUNTING & FISHERY		42.9%	33,200	66.6%	3, 799	28.0%	52, 583	68.9%
MINING	742	2.0	91	0.2	26	0. 2		
MANUFACTURING		8.0	2,976	6.0		19.2	3, 933	
CONSTRUCTION		20.0	2,087	4.2		17.8	2,815	3.7
ELECTRICITY,	0, 410	20.0	2,001	7.2	2,400	11.0	2,010	0.1
WATER & GAS	19	0.1	26	0.1	29	0.2	67	0.1
RETAIL DEALER, HOTEL,		υ. ι	20		2.3	U, Z	. 01	V. 1
	1, 166	6. 7	1,049	2. 1	1, 324	9.8	1, 457	1, 9
RESTAURANT, ETC.	3, 100	0. 1	1,045	2. 1	1, 324	3.0	1,401	1. 9
TRANSPORT, STORAGE,	710	4 4	4 000	Λ 0	005	. 0 4	4 700	
COMMUNICATION, ETC.	716	4. 1	1,009	2.0	835	6. 1	1, 762	2.3
FINANCING, INSURANCE,	0.0		7.4	0.4			404	
TRADING, ETC.	23	0.1	74	0.1	55		161	0.2
SOCIAL SERVICES	2,688		8,603	17.3		18. 1		
UNCLASSIFIED	119	0.7	733	<u>1.4</u>		0.2	<u>1, 542</u>	
TOTAL EMPLOYED	17, 410	100.0%	49,848	100.0%	13, 558	100.0%	76, 326	100.0%
•								
URBAN AREA:	1							
AGRICULTURE, FORESTRY	,			•				
HUNTING & FISHERY	1,080	6.4%	2,184	6.8%	1,547	6.2%	3, 865	9.2%
MINING	64	0.4	29	0.1	16		66	0.2
MANUFACTURING	2,502	14.8	4,336	13.6	3, 562	14.2	4,823	11.5
CONSTRUCTION	3, 200	18.9	4,668	14.6	3, 402	13.6	3, 831	9. 1
ELECTRICITY,	.,				٠, ٠, -		0,021	
WATER & GAS	90	0.5	102	0.3	176	0.7	170	0.4
RETAIL DEALER, HOTEL,	•	<b>0.</b> 0	, ,,	0.0		5, 1	•	
RETAURANT, ETC.	2,466	14.6	5,203	16.3	3 962	15.8	6,026	1/1/3
TRANSPORT, STORGE,	E 1 700	17.0	0,200	10.0	0, 002	13.0	0, 020	14.0
COMMUNICATION, ETC.	2,448	14.5	2,746	8.6	9 707	11.1	3, 992	9. 5
	£,440	14. J	۷,140	. 0.0	۲, ۱۹۱	11.1	J, JJZ:	υ. J
FINANCING, INSURANCE,	335	2.0	477	1.5	586	2.3	000	2 1
TRADING, ETC.							16 700	
SOCIAL SERVICES	4,638	$\frac{27.5}{0.4}$	11,223	35.2	8, 986		16, 798	39.7
UNCLASSIFIED	10 000		958	3.0	56		1,712	
TOTAL EMPLOYED	16,889	100.0%	31,926	100.0%	25, 090	100.0%	42,083	100.0%

TABLE D.2-3 ILLITERACY RATIO BY RURAL & URBAN AREAS IN EX-AHOL & BABOL SHAHRESTANS

	EX-A	HOL SHA	HRESTAN	•	EX-B	ABOL SH	AHRESTAN	
	1976		1986		1976		1986	
WHOLE SHAHRESTAN:								
TOTAL POPULATION OVER 6 YRS.	185, 944		267,568		281,566		392,33 <b>9</b>	4.1 4
TOTAL ILLITERACY	90,470	48.7%	91,466	34.2%	144,639	51.4%	141, 159	36.0%
MALE POPULATION OVER 6 YRS.	93,915		135,407		139, 493		196,226	
MALE ILLITERACY	33,702	35.9	34,809	25.7	54,969	39.4	56,663	28.9
FEMALE POPULATION OVER 6 YRS.	92,029		132, 161		142,073		196, 113	
FEMALE ILLITERACY	<u>56, 768</u>	61.7	56,657	42.9	89,670	63.1	84,496	43.1
RURAL AREA:								
POPULATION OVER 6 YRS.	123,087		162,200		185,264		245,871	
TOTAL ILLITERACY	68,752	55.9	63,286	39.0	112,942	61.0	103,522	<u>42.1</u>
MALE POPULATION OVER 6 YRS.	61,329		82,094		89,311		121,928	
MALE ILLITERACY	25,395	41.4	24,066	29.3	42,130	47.2	41,493	34.0
FEMALE POPULATION OVER 6 YRS.	61,758		80,106		95, 953		123,943	
FEMALE ILLITERACY	43,357	70.2	39,220	49.0	70,812	73.8	62,029	50.0
URBAN AREA:								
POPULATION OVER 6 YRS.	62,857		105,368		96, 302		146, 468	
TOTAL ILLITERACY	21,718		28,180	26.7	31,697	32.9	37,637	25.7
MALE POPULATION OVER 6 YRS.	32,586		53,313		50,182		74,298	
MALE ILLITERACY	8,307	25.5	10,743	20.2	12,839	25.6	15, 170	20.4
FEMALE POPULATION OVER 6 YRS.	30,271	·	52,055		46, 120		72,170	
FEMALE ILLITERACY	13,411	44.3	17,437	33.5	18,858	40.9	22,467	31.1

FARMING LABOR REQUIREMENT UNDER PROJECT (Unit: man-day) 22 ន (23,500 + 8,500 = 32,000)FIGURE D. 2-2: 30,000 20,000 10,000 40,000 20,000 Farming in 1986 - Employed in FIGURE D. 2-1: PRESENT FARMING LABOR REQUIREMENT (Unit: man-day) 11 12 30,000 20,000 50,000 40,000

#### D. 3 Rural Institution & Economy

## (1) Data Applied

The lists of villages under new administration were supplied by the Farmandar's offices of Amol, Babol and Babolsar. The data related to the rural cooperatives and credit supply from the Bank of Agriculture were supplied by the Shahrestan offices of Cooperative Organization of the MOA in Amol and Babol.

#### (2) Analysis

All listed villages were plotted on the map, then villages in the Project Area were clarified. 491 villages were counted as villages in the Project Area, 460 villages of which were listed in the Village Gazette.

In the Project Area, change of name of villages are rather popular. Moreover, the concept of Deh (village) and Mahaleh (area) are not clear, therefore the list of villages were provided mainly based on the village Gazette.

Same confusion was observed in the list of member villages of rural cooperatives.

The Registration Offices in the Project Area have registered map of each village, however most of them are not showing present boundary of villages. In many part, the registered village areas were divided into new residential area or Deh, and surrounded forest have been reclaimed into paddy field.

#### D. 3. 1 List of Villages in the Project Area

The list of villages is shown as the Table D. 3-1, and it is explained as below:

* The list shows 527 villages, 18 villages of which are located at the vicinity of the Project Area and other 18 villages are not included in

the lists received from the Farmandar's offices, but their statistic data codes are available.

# * Following reference codes were applied:

## 1) Dehstan Code - DN001-DN016 are interpreted as below:

DN001	Chalav	DN010	Emamzadeh Abudallah
DN002	Bala Khiaban Latikuh	DN011	Barik Rud
DN003	Poin Khiaban Latikuh	DN012	Rud Bast
DN004	Dasht Sar		
DN005	Dahu Junubi	DN013	Laleh Abad
DN006	Harazpei Junubi	DN014	Karipei
DN007	Ahalamrostagh	DN015	Getab
DN008	Harazpei Shomali		
DN009	Dabu Shomali	DN016	Mian Rud (Nur)

# 2) Rural Service Center Code - SC001-SC010 are interpreted as below:

SC001	Chalav	SC006	Jalal Azrak Shomali
SC002	Ahlamrostagh	SC007	Shahid Ashrafi Esfahani
SC003	Dasht Sar	SC008	Poin Ahamad Chalehpei
SC004	Dabu Junubi	SC009	Jalal Azrak Junubi
SC005	Harazpei Shomali	SC010	Laleh Abad

# 3) Rural Cooperative Code - RC001-RC036 are interpreted as below:

RC001	Golestan	RC013	Alesh	RC025	Omid
RC002	Aghuzbon	RC014	Dabu	RC026	Khazar
RC003	Pishru	RC015	Deh Feri	RC027	Rud Bast
RC004	Bahaman	RC016	Resalat	RC028	Darzi Naghib
RC005	Hendu Kola	RC017	Momtaz	RC029	Pol Ansari
RC006	Mehr	RC018	Haghighat	RC030	Asbu Kola
RC007	Vali Asr	RC019	Talik Sar	RC031	Keshavarz

RC008	Vahadat	RC020	Payam	RC032	Andisheh
RC009	Nima	RC021	Tohid	RC033	Hafez
RC010	Etemad	RC022	Molla Kola	RC034	Pishru
RC011	Taher	RC023	Azadi	RC035	Azadi
RC012	Esfand	RC024	Ettehad	RC036	Hadaf

4) Irrigation District Code are Interpreted As Below:

HW: West District of Haraz Diversion Dam

HE: East District of Haraz Diversion Dam

AW: West District of Amol Diversion Dam

AE: East District of Amol Diversion Dam

VCHW1, VCKR1-2,4, VCKL6: Vicinity of related Irrigation Zone

5) Irrigation Zone Code are as explained in the Chapter of Irrigation/Drainage.

#### D. 3.2 Outlook of Rural Cooperatives in the Project Area

Table D. 3-2 shows the outlook of Rural Cooperatives in the Project Area as of the mid of 1991. As shown in Figure 3. 5-2 in the Main Report, some of the listed Cooperatives are including the villages outside of the Project Area, therefore, the rural cooperative system is covering 446 villages or about 91% of total villages in the Project Area.

# D. 3. 3 Record of Receipt of Credit from Bank of Agriculture in the Project Area

Table D. 3-3 shows the credit supply of the Bank of Agriculture to the member of Rural Cooperatives from 1356 (1977/78) to 1369 (1990/91).

TABLE 0.3-1 LIST OF VILLAGES IN THE PROJECT AREA BY DEHSTANS

VILLAGE CODE VILLAGE NAME Dehstan	Dehsta	د	Rural Service Center	REFERENCE CODES Rural Cooperative	S Irrigation District	irrigation Zone	No. of Household 1985 MDA	1986 PB0
				RC001	8= H.	HWU1	257	
-		SC001		RC001	HH	H#U2	110	138
ad DNOO1	-			RC001	HR	H#U2	40	1
DN002	+	\$5001		RC001	VCHWI	VCHW1	40	33
haleh DN002	_	SC001		RC001	VCHW1	VCHW1	620	488
DN002	-	SC001		RC001	HW	HWI	96	28
DN002		SC001		RC001	H.W	HW3	135	86
DN002		SC001			#H	HW2	39	41
haleh		10008		RC002	HA	HW3	138	108
Khas Kola DNOO2	-			RC001	₩H	H#3	78	81
DN002		SC001		RC001	H#	HII	09	63
DNO02		SC001		RC001	ЖH	HW3	160	191
cola AU		SC001			***	AU	ı	37
Divroz DN002 SC001		SC001		RC002	X.E.	HWZ	63	65
Vols DNO02		\$0001		RC002	35.3	H#3	125	
Soheri DN002 SC001		SC001		RC001	VCHW1	VCHW1	27	25
angal DN002		SC001		RC001	KH.	HYZ	01	13
Kasemadeh DN002 SC001		SC001		RC001	A.H	HW1	140	139
ols DN002		\$0001		RC002	ЖH	H#3	25	30
DN002		SC001		RC001	Ē	HW3	210	174
DN002		SC001		RC002	ž	HW3	15	15
		SC001		RC001	<b></b>	HW3	112	98
Nogardan DN002 SC001		SC001		RC001	E.	HWUS	63	82
DN002		SC001		RC002	<b>X</b>	HW2	09	54
DN002		SC001	_	RC001	BE H	HWU3	125	111
DNO03		SC002	_	RC002	HW	H#2	65	108
ti DN003		SC002	$\neg$		HW	HW4	41	52
Anji Pol DN003 SC002		SC002	$\neg$	RC002	HW	HW2	75	44
		SC002	$\neg$		H.	AU	တ	12
		SC002	$\overline{}$	RCOO3	H.K	H#4	21	20
Pishgun DN003 SC002		20002	$\overline{}$	RCOO3	11.	H#3	35	38
ad DNO03		20002		RC003	Н₩	H#2	51	42
.Clis DN003	-	SC002		RC002	H¥.	H#3	130	140
ar Sofia DN003	· .	SC002		RC002	HW	H#3	92	84
		SC002		RCOOS	H#	H#3	9	84
		SC002			HW	HW4	1	တ
Changaz DN003 SC002		20005		RC002	H.M.	HY2	75	833
Hosseinabad DNOO3 SCOO2		SC002		RC003	¥.	HW3	1	142
Darkapei DN003 SC002		SC002		RC003	H	872	37	330
DNOO3		SC002	<del> </del>	RC003	**	783	2.87	96
		SCOOS	+-	RCOO3	3	E.M.H	87	300
DANCE			+		an a	2	2	2
-			╈					
					- <del></del>			
			┪					

015038			コンプレンド くりつい			No. of nousenoid	
Zarvandeh Saej Mahaleh Sariang Keti Siah Lash Shah Mahaleh Shir Kaj Ghajar Mahaleh Kaseb Mahaleh Kaseb Mahaleh Kord Keti Chajar Kati Kuschraz Kuscheh Kalakoh Marandeh Marandeh Marandeh Marandeh Marandeh Kaliah Keij Kaliah Keij Kaliah Keig Kaliah Kola Bazminan Buran Badidabad Farm Changaian Changaian Changaian Khonisar Farm Khonisar Farm Khonisar Farm	Dehstan	Rural Service	Rural	Irrigation	irrigation	1985	1986
Zarvandeh Saej Mahaleh Sarhang Keti Siah Lash Shah Mahaleh Shir Kaj Chajar Mahaleh Kaseb Mahaleh Kord Keti Kusehraz Kuse		Center	cooperative	District	2007	VO:	0
Saej Mahaleh Sarhang Keti Siah Lash Shah Mahaleh Shir Kaj Chajar Mahaleh Kaseb Mahaleh Kord Keti Kusehraz Kusehraz Kukdeh Kinebar Khast I Gelan Marandeh Marandeh Maskun Norom Norom Norom Norom Norom Norom Norom Naskun Naskun Naskun Naskun Norom Naskun Naskun Naskun Norom Naskun Norom Naskun Naskun Norom Norom Naskun Norom Norom Naskun Naskun Naskun Naskun Naskun Naskun Naskun Naskun Naskun Na	DNOO3	20005	RC002	HW	HW3	28	52
Sarhang Keti Siah Lash Shah Mahaleh Shir Kaj Chajar Mahaleh Kaseb Mahaleh Kaseb Mahaleh Kord Keti Kusehraz Kusehraz Kusehraz Kukdeh Kinebar Khast I Gelan Marandeh Marandeh Marandeh Maskun Norom Narandeh Maskun Norom Narandeh Maskun Norom Norom Norom Norom Norom Norom Narandeh Maskun Salar Keti Shir Kela Zilabar Kela Zilabar Kela Allahar Kela Allahar Kola Allahar Kola Baghban Kola Baghban Kola Palak Sofla Palak Sofla Palak Sofla Tork Kola	DN003	20002	RC002	H.W.	HW2	130	200
Siah Lesh Shah Mahaleh Shir Kaj Ghajar Mahaleh Kaseb Mahaleh Kord Keti Kelaksar Sofla Kusehraz Kukdeh Kinebar Khast I Gelan Marandeh Marandeh Marandeh Maskun Norom Narandeh Maskun Norom Norom Narandeh Maskun Norom Norom Narandeh Maskun Norom Norom Narandeh Maskun Norom No	DN003	20005	RC003	5== 3-1	HW3	40	35
Shah Mahaleh Shir Kaj Shir Kaj Ghajar Mahaleh Kord Keti Kolaksar Sofla Kusehraz Kukdeh Kinebar Khast I Gelan Marandeh Marandeh Maskun Norom Narkadeh Heli Keti Anskadeh Kala Keti Shibar Kola Liibar Kola Egiban Kola Azar Keti Anhilek Faru Azar Keti Anhilek Faru Azar Keti Anhilek Faru Azar Kola Tir Nola Bazminan Buran Buran Buran Buran Buran Buran Buran Buran Falak Sofla Tork Kola	DNOO3	SC002	RC003	#H	HW2	80.	09
Shir Kaj Ghajar Mahaleh Kaseb Mahaleh Kord Keti Kusehraz Kukeh Kinebar Khast I Gelan Mar Keti Marandeh Maskun Norom Noro	DNOO3	20002		HW	AU	20	57
Chajar Mahaleh Kaseb Mahaleh Kord Keti Kelaksar Sofla Kusehraz Kukdeh Kinebar Khast J Gelan Mar Keti Marandeh Marandeh Maskun Norom	DN003	20002		H.W.	HW2	14	10
Kaseb Mahaleh Kord Keti Kusehraz Kukdeh Kinebar Khast I Gelan Mar Keti Marandeh Marandeh Maskun Norom	DN003	SC002	RC003	ЖH	HW4	33	33
Kord Keti Kelaksar Sofla Kusehraz Kukdeh Kinebar Khast J Gelan Marandeh Marandeh Maskun Norom No	DNOO3	\$5002	RC003	<b>*</b>	H#3	53	48
Kelaksar Sofla Kusehraz Kukdeh Kinebar Khast Gelan Mar Keti Marandeh Maskun Norom No	DNOO3	\$0002	RC003	#H	<b>予制</b> H	18	20
Kukdeh Kinebar Khast Gelan Mar Keti Marandeh Maskun Norom No	DN003	\$0002		HH.	AU	165	248
Kukdeh Kinebar Khast Gelan Mar Keti Marandeh Maskun Norom No	DNOO3	SC002	RC003	馬片	HW2	100	100
Kineber Khast Gelan Mar Keti Marandeh Maskun Norom Nor	500NG	20002	RC003	ÄH	IIW2	150	137
Gelan Mar Keti Marandeh Maskun Norom		20008		ÄН		1	1
Mar Keti Marandeh Maskun Norom	-	SC002	RC002	點	HWZ	63	55
Marandeh Maskun Norom Norom Noabad Valisdeh Varkadeh Heli Keti Shir Kola Allah Kaj Allah Kaj Allah Kaj Allah Keja Allah Keja Allah Keja Allah Kola Barahan Kola Barahan Buran Barahan Kola Tork Kola	DN003	20003	RC003	ЖH	1974	40	38
Maskun Norom Norom Noabad Valisdeh Varkadeh Heli Keti Shir Kola Alah Kaj Alah Kaj Alah Kaj Alah Keti Aner Research Azar Keti Anhilek Faru Baghban Kola Bazminan Buran an Changmian Changmian Changmian Changmian Khonisar Faru Khonisar Faru	DNO03	20003	RC003	HW	HW3	40	38
Norom Noabad Valisdeh Varkadeh Heli Keti Shir Kola Kibar Kola Alah Kaj Rice Research Azar Keti Azar Kela Baran Baran Baran Buran Buran Buran Buran Buran Buran Buran Buran Buran Changaian Changaian Changaian Changaian Khonisar Farm Khonisar Farm	DNOO3	20002	RC003	НЖ	H#3	50	63
Noabad Valisdeh Varkadeh Heli Keti Shir Kola Kibar Kola Allah Kaj Rice Research Azar Keti Anhilek Faru Baghban Kola Barainan Barainan Barainan Barainan Barainan Barainan Barainan Barainan Barainan Changan Tir Kola	DINOO3			#H	HW2	1	4
Valisdeh Varkadeh Heli Keti Shir Kola Asumabad Ejibar Kola Allah Kaj Allah Kaj Anilek Fara Anhilek Fara Baghban Kola Baraninan Baraninan Baraninan Baraninan Baraninan Baraninan Baraninan Baraninan Branan Chananan Changanan Changanan Changanan Changanan Changanan Khonisar Fara	DN003	SC002		#H	H#2	62	53
Varkadeh Heli Keti Shir Kola Masumabad Elibar Kola Allah Kaj Rice Research Azar Keti Anhilek Faru Baghban Kola Bazminan Buran Buran Buran Pasha Kola Tork Kola Kansak Jadidabad Faru Changaian Changaian Changaian Khonisar Faru Khonisar Faru	DNOO3	SC002	RC002	BE III	HW2	86	103
Heli Keti Shir Kola Masumabad Ejibar Kola Allah Kaj Rice Research Azar Keti Anhilek Faru Baghban Kola Buran Buran Buran Buran Buran Chala Faru Changaian Tork Kola Tork Kola Tork Kola Tork Kola Tork Kola Tork Kola Kola Tork Kola Kola Tork Kola Kola Tork Kola Kola Kola Kola Kola Kola Kola Kola	DN003	SC002	RC003	H#	H#2	109	129
Shir Kola Masumabad Ejibar Kola Allah Kaj Rice Research Azar Keti Anhilek Faru Baghban Kola Bazminan Buran Buran Buran Pasha Kola Palak Sofla Palak Sofla Tork Kola Tork Kola Tork Kola Tork Kola Tork Kola Kolasi Faru Khonisar Faru Khonisar Faru Khonisar Faru	DN003	SC002	RC003	жн	HW4	99	94
Masumabad Ejibar Kola Allah Kaj Rice Research Azar Keti Anhilek Faru Baghban Kola Bazminan Buran Buran Buran Buran Buran Buran Buran Falak Sofla Falak Sofla Tork Kola	DN015			H.N.	HWZ	l	191
Ejibar Kola Allah Kaj Rice Research Azar Keti Anhilek Faru Baghban Kola Bazminan Buran Buran Buran Buran Buran Buran Buran Buran Falak Glia Tork Kola	DN015			HH	H#2	1	108
Allah Kaj Rice Research Azar Keti Anhilek Faru Baghban Kola Bazminan Buran Buran Buran Buran Buran Pasha Kola Palak Sofla Palak Kola Tork Kola	DN004	SC003	RC004	ЯЕ	RES	400	434
Azar Keti Anhilek Faru Baghban Kola Bazminan Buran Buran Buran Pasha Kola Palak Sofla Palak Olia Tork Kola	DN004	80008	RC005	HE	HE4	17	81
Azar Keti Anhilek Faru Baghban Kola Bazminan Buran Buran Pasha Kola Palak Sofla Palak Olia Tork Kola	L	\$0003		3H	HE4	-	တ
	L			HE		1	-
	DN004	SC003		띺		-	
	DN004	\$0003	RC007	HE	HE4	60	46
	DN004	80008	RC008	HE	HE3	022	185
	DN004	SC003	RC009	里!	HE1	333	118
	DN004	SC003	KCOUS	<del>길</del>	7TV	001	607
	DN004	SC003	KC009	끂	AU	7 14	121
	*CONG		XCO03	긛	N. A.U	20 5	021
	DN004	20003	RC009	34	HEI	143	701
	DN004	\$0003		Œ	KR3		30.
	DN004	SC003		至	KR3	233	191
	DN004	SC003		HE		1	
	DN004	\$0003	RC029	HE.	KR3	100	40
	DN004			HE		1	'
	DN004	SC003		댎		38	1
	DN004	\$0003	RC029	돼	KR3	40	33
				-			

8.				REFERENCE CODES	S		No. of househ	old
VILLAGE CODE	VILLAGE NAME	Dehstan	Rural Service Center	Rural Cooperative	Irrigation District	Irrigation Zone	1985 MOA	1986 P80
015318	Davud- Kola	DN004	\$0003	RC004	HE	HES	77	88
	Doctor Kola Farm	DN004	SC003		吳		1	Í
015321	Dariabari				語	HE4	1	28
015322	Rostamdar Mahale		SC003	RC007	HE	HES	- 18	1.1
015324	Rudbar	DN004	SC003		뀲	HEI	92	66
015325 *	Zavarak	DN004	\$000\$	RC008	VCKR2	VCKR2	59	56
# 928510	Ziaru	DN004	80003	RC008	VCKRI	VCKR1	59	43
	Sutehzar	DN004			Æ		1	1
015327	Salar Mahaleh	DN004	\$0003	RC005	HE	HE2	57	59
017187	Sorkh Kola	DN004	\$0003	-	Æ	XR4	195	231
015328 **	Shad Mahaleh	AU			꾜	AU	•	125
015330 *	Shaneh Kola	DN004	\$0003	RC008	VCKR2	VCKR2	239	186
015332	Arab Kheil	DN004	\$0003	RC007	HE	HE4	45	48
015333	Firuz Kola Sofla		20003	RC008	HE	HE3	135	162
015334	Ø3		SC003	RC008	托	HE3	124	124
015335	Firuz Kola Vasat			RC008	E HE	HE3	73	65
015336	Ghaleh Kosh		SC003	RC007	땆	HE4	180	165
015337	Challan Kola Sof		\$0003	RC007	Ή	HE4		14
015338	Ghallan Kola Oli	DN004		RC007	뜆	HE4	38	40
	Kelilen				H		•	ı
	Kimehsar Farm	DN004			HE		-	-
	Ketiposht Sofla	DN004	\$0003	RCDOS	Æ	HE2	224	240
015339	K.P. Abbakhshan							(11)
015340		eh			-			(58)
015341	Tir							(09)
015343								(45)
015342	Ketiposht Olia		SC003	RC009	HE	HE2	121	119
015345 ×	Komdarreh	DN004	SC003	RC008	YCKR2	VCKR2	257	234
015346	Konsi	DN004	20003	RC003	望	AU	120	126
015347		DN004	SC003	RC008	Æ	KL.I	25	91
017198	Golmazar Farm	DN004	SC003		HE	KR3	18	17
	La lehzar	DN004			HE			1
	Moslem Kols	DN004	80003	RC008	HE	KR2	148	•
	Mahmadabad	DN004	80003		HE	KRI	13	16
015351	Mehdi Kheil	DN004	SC003	RC008	띺	HES	116	141
	Mian Keti	DN004			HE		1	
015352	Wileh	DN004	SC003	RC008	끮	KR3	147	169
	Nafar Kheil	DN004	SC003		HE	KR2	-	•
015354	Nezamabad	DN004	SC003	RC006	. HE	HES	001	102
015355	Noabad	DN004			HE		1	140
017205	Nodeh	DN004	SC003	RC029	HE	KR3		101
	Najjar Mahaleh	DN004	SC003		Ħ	HES	130	
015358	Harun Kola	DN004	SC003	RC004	里	HE4	163	245
015359	Hendu Kola	DN004	SC003	RC005		HE2	243	299
	Ebrahimabad	DN005	SC004		뀶		i	