

Islamic Republic of Iran

Report

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In the Name of God

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I. General

The I. R. Of Iran comprised of 1648195 KM2 is located between 25 degrees 3 second latitude and 39 degrees 47 seconds longitude. Approximately 90% of the country generally classified as a mountainous and semi – arid area, is situated on the Iranian plateau more than half of the country is covered with mountains and highlands, about one forth with deserts and the rest with arable land.

The latest census conducted in 1996 revealed that Iran population was 60 million of which 23 million lived in rural area. The total labor force was 14.5 million and the agricultural labor force was 3.3 million.

The amount of Rain fall is between the 50 to 2000 millimeter and the mean high of the country is 1200 meter over the sea level.

Crop production system are entirely dependent on topography, seasonal rainfall and assured supply of water in irrigated area.

II – Cultivated Area

During the year 2002-2003 among the total of 14.55 millions hectares of land of I. R. Of Iran about more than 12 millions hectares

was allocated to annual and perennial crops from which 2.37 millions hectares were under the cultivation of orchard. From the latter 50.49% was allocated to irrigated lands and the rest to dry farming. From the 2.37 million hectares perennial products about 94.84 is allocated to fruits and the rest to industrial trees.

From the production point of view among the total of 62.65 million tons of annual products about 88.85% were produced from irrigated lands and 11.2% from dry farming.

In addition, during this period in the annual crop from the total of 12.18 million hectares cultivated land, cereal having 8.78 million hectares in the first category. Wheat, barley rice, corn having respectively 72.9 , 17.2 , 7.01 , 2.8 percent the total orchard products during the year was 13.76 millions tons.

It is necessary to note that the agricultural production in I. R. Of Iran is seriously affected by ecological conditions and the amount of seasonal precipitations and the amount of irrigation water in irrigated lands. Table 2 shows the area, the amount of production, production per unit area (yeild) of some major crops either in irrigated lands or

dry farming. Also table 3 indicates the same information for some of major orchard produce in I. R. Of Iran.

Table 1

Size Of Land Holding	
Hectare	Percent
1 ha and less	26.7
1-2	14.9
2-5	24.4
5-10	17.1
10-50	15.7
50-100	0.8
100 and more	3.0

Table 2: Cultivated Crop For Year 2003

Crop	Area (1000 ha)		Production (1000 ton)		Yeild (kg)	
	Irrigated	Dryland	Irrigated	Dryland	Irrigated	Dryland
Wheat	2398	4010	8704	4734	3629	1180
Paddy	615	-	2931	-	4763.7	-
Cotton	133	6.5	342	9.2	2565.8	1403.3
Corn	245	-	1652	-	6725.7	-
Cheac pea	18	622	19	270	1074.4	4339
Bean	112	3.3	215	3	1912.9	1104.2
Other creals	31	4.8	41	4.4	1332	924.4
Potato	170	2.5	4179	3	24492.7	11843.3
Tomato	132	2.1	4426	3	33432	14585
Onion	45	3.5	1569	4	34553.3	11473.7
Other vegetables	97	12	21763	223	22250.6	17482.1
Sugar beet	178	-	5933	-	33266	-
Oil seed	156	88	272	121	1739.6	1365.1
Forages	734	108	10039	403	13306.4	3706.3

Source: Ministry of Jihad – E – Agricultural 2004

Table 3: Orchard Crop for Year 2003

Crop	Area (1000 ha)		Production (1000 ton)		Yeild (kg)	
	Irrigated	Drylan d	Irrigated	Drylan d	Irrigated	Drylan d
Pistachios	312	-	-	-	753	-
Grapes	210	69	2566	304	12207	4412
Dates	168.5	22.9	926	377	5499	1672
Apples	152	.49	2515	3.2	16519	6688
Pomegranates	52	0.9	679	7.9	12821	6953
Figs	4.7	37.8	37	38	7783	1017
Oranges	88	32	1469	549	16674	16893
Tea	2.8	28.6	37	174	13097	6108
Apricots	36	0.053	312	0.204	8610	3871
Walnuts	71	3.1	197	7.1	2753	2262
Saffron	54	-	228	-	4.1	-
Olives	14	0.64	45	0.285	3041	441

Source: Ministry of Jihad – E – Agricultural 2004

III . Status of agricultural Production:

Now a day supplying food for people is one of the most important problem in human. Regarding the increasing of population in the world including I. R. of Iran and limitation of production possibilities, development in agriculture and food processing technology is of the highest priority in plannings in most of the countries.

From the Years far ago in I.R. of Iran there has begun wide activities in the above mentioned matter but as food technology is a new measure, attention has been paid to reducing losses from the stage of production to consumption and also making coordination between food processing industries and agricultural productions. Having a glance to the amount of losses in some of the agricultural produce even without preharvest losses is high. Because of this programme planners of the fourth development programme of the country have taken appropriate orientation in selecting the objectives and necessary actions through strategies suitable to the general conditions of the country.

In addition, looking at the statistics of the year 1996 and the rate of

increase in urban population and also the increase of villagers immigration to cities which caused the change of the rural population of the country from 68.59% in the year 1956 to 38.5% in 1996 and consequently appearing socio economical problems in cities and also ineffective usage of the water and soil resources in rural areas and led the programme managers to pay special attention to rural development and creation of employment opportunities based to the programmes and establishment of small industries in rural areas.

IV. Agricultural Mechanization Status

Agricultural mechanization, as a vital factor in promoting quality and quantity of agricultural crops production, has a very important share in nutritional health, such that it has always been considered in macro programs of agricultural sector by planners of sub – sectors like agronomy, horticulture, forest and pasture, livestock affairs, aquatics and researches.

Considering importance and role of agricultural mechanization, ministry of Jihad – e – Agriculture organ has indicated a central

authority that could be active in mechanization development. In organizational point of view, this center is a subset of Deputy of Rural Development and Industries and assumes following responsibilities.

- To study current situation of mechanization in agricultural sector, prepare and compile long-run, medium-run and short-run programs, prepare and propose national plan for agricultural mechanization development and follow up approval there of before concerned authorities.
- To summarize and integrate ministerial needs, prepare and propose a plan for supplying required machinery and equipment.
- To propose suitable policies and solutions like policies to support farmers and craftsmen to council.
- To examine and detect problematic situations, current issues and problems and announce research priorities and requirements to Agricultural Education and Research Organization.
- To choose suitable technologies for orders for production or supply from inside or outside the country in cooperation with concerned units.

- To compile regulations and standards related to equipment and machinery required in agricultural sector.
- To prepare draft of agricultural mechanization development policies and submit the same to the council for approval.
- To manage information system in agricultural mechanization development and using IT.
- To perform secretarial affairs of the council and other duties entrusted by the council.

Project of Control, Supervision and Construction of Primary Samples of Agricultural Machinery

This project aims to construct primary samples of suitable agricultural machinery compatible with state climate, social and technological conditions for the purpose of supporting domestic construction and localization there of in this line, mechanization development center moves forward by directing and financially and technically supporting craftsmen and innovators to make primary samples.

Project of Support Direction and Supervision over Mechanization

Service Units

Aiming to promote productivity of agricultural machinery and equipment existing in the country and considering the great numbers of users and shortage of agricultural machinery, this project is of prime importance. In fact, establishment of mechanization service units to offer mechanized services to farmers without machinery is one of the main solutions for mechanization development on state level, since it is possible only in this way to provide a complete set of agricultural machinery and equipment in a suitable region and move beyond those professional who have one or two trailers. This center is seeking to facilitate affairs related to them to increase number of such machinery.

Grant and allocation of Banking Facilities

To support purchasers of agricultural machinery, this center has taken actions to supply and allocate subsidy aids (Rial and Foreign Exchange) and provide technical and credit aids and facilities to applicants of agricultural machinery. It should be mentioned that part

of these facilities is granted as share of industry to support producers of agricultural machinery in coordination and under supervision of this center. Therefore in this respect, since the center puts so much stress on promotion and improvement of quality of production, applicants of banking facilities are selected after receiving test certification by applicant's manufacturers.

V. Status of Agricultural Machinery Production

A. Manufactures of tractor:

1. Iran Tractor mfg. co (ITMCO)

Is manufacturing the following range of tractors:

MF-399	110 hp
MF-285	75 hp
MF-240	46hp

2. Orumieh Tractor mfg.co

Manufacturer of articulated orchard type tractors.

3. Jiroft tractor mfg.co.

Manufacturer of articulated orchard type tractors.

4. Iranvarz mfg.co

This company is mainly producing a wide range of small and medium size diesel engines and also produce two wheel tractors equipped with rotivator and mower.

5. Iran Ashtad company

This company has assembly line of power tillers with 7.5, 9 and 13 hp.

6. Darvana mfg.co

This company has assembly line of tractors with 20 hp.

7. Fars tractor manufacturing co

This company has assembly line of tractor with 86 hp.

8. Kerman tractor manufacturing co

This company has assembly line of UTB tractor with 45hp

9. Serjan tractor company

Manufacturer of articulated orchard type tractor

B. Manufacturers of combines

Two companies (ICM Co. and AID CO.) have production lines of combine harvester.

C. Manufacturers of Impliments:

A high majority of the agricultural machinery and equipment such as tillage machines, planter and crop care equipment, harvester and post-harvest equipment have been produced locally, and many hundreds of large and small industrial units are engaged in this important bussiness.

It is understood that with the outset and dynamism of this industry in the country, the quality of locally manufactured machinery and equipment was taken into consideration continuously and fortunately it is approuching the international standard in some cases.

Table 4: Type and quantities of power sources (2004)

No	Machine name/model	Quantity
1	Tractor up to 45 HP	11121
2	Tractor 48-80 HP	211108
3	Tractor 80-110 HP	8275
4	110 and more HP	1500
5	Combine harvesters	10932
6	Power tillers 4.5 HP	19740
7	Power tillers 7.5 HP	74548
8	Power tillers 9 HP	8465
9	Power tillers 13HP	9272

Table 5: Type and quantities of implement

No	Machine name/model	Quantity
1	Mold board plow	249856
2	Chisel plow	21864
3	Rotivators	6290
4	Disk harrows	94128
5	Land levelers	16677
6	Ditchers	32067
7	Ridgers	28133
8	Furrowers	15878
9	Seed drills	5531
10	Deep drills	6626
11	Row crop planters	4564
12	Rolling cultivators	1056
13	Fertilizer dis	33321
14	Wheel barrow sprayers	52438
15	Tractor mounted sprayers (boom)	14400
16	Tractor mounted sprayers (Lance)	8844
17	Potato planters	4405

No	Machine name/model	Quantity
18	Potato harvester	3534
19	Transplanters	941
20	Maize head	793
21	Two drum rotary mowers	2512
22	Finger bar mowers	1650
23	Balers	3210
24	Choppers	737
25	Sugar beet diggers	1753
26	Farm trailers 2 wheel	42832
27	Farm trailers 4 wheel	57141
28	Sunflower head	129
29	Tea harvester	237
30	Threshers	42239
31	Sugar beet combine harvester	48
32	Paddy driers	4225
33	Driers	3943
34	Rice threshers	20251

VIII. Exports:

The export amount of agricultural products processing taken from I.R. of Iran's Customhouse annual statistics is given in table 6:

Table 6: The export amount and values of agricultural products

No	Explanation	Year	
		2002	2003
1	Plant and flower	3008	4826
	weight (T)	1019246	2609860
	Value (\$)		
2	Vegetable and root plant	351574	362316
	Weight (T)	102782233	94918392
	Value (\$)		
3	Edible fruits and citrous peel	679485	816273
	Weight (T)	676580596	896105973
	Value (\$)		
4	Tea, Spices	32007	38088
	Weight (T)	81055357	105430696
	Value (\$)		

No	Explanation	Year	
		2002	2003
5	Cereals	1500	1610
	Weight (T)	408294	539586
	Value (\$)		
6	Agr.products used for flouring	988	2211
	Weight (T)	384038	1114596
	Value (\$)		
7	Oil seeds and fruits	41847	45783
	Weight (T)	7535309	8679224
	Value (\$)		
8	Sugar and cookies	40955	73802
	Weight (T)	15878420	28207422
	Value (\$)		
9	Cereal products, flour,...	35234	56844
	Weight (T)	22731121	43038052
	Value (\$)		

No	Explanation	Year	
		2002	2003
10	Vegetable prod.	63765	161377
	Weight (T)	38127421	92109323
	Value (\$)		
11	Other snack products (Patato chip, Lavashak, ...)	4925	8126
	Weight (T)	7025837	11630888
	Value (\$)		
12	Drinks and Juices	30056	114891
	Weight (T)	7810933	25933498
	Value (\$)		
13	Tobacco	1292	8942
	Weight (T)	2356321	7909693
	Value (\$)		