

Presidency Islamic Republic of Iran
Plan and Budget Organization
Statistical Centre of Iran

Selected Results of Livestock Farms Survey

Autumn, the Year 1399¹

¹ . It's the Iranian year which usually begins within a day of March 21 of the Gregorian calendar. To find the corresponding year of the Gregorian calendar, add 621 or 622 (depending on the time of the year) to a Solar Hijri year. For example, the corresponding year of the year 1399 in the Gregorian calendar is (20 March 2020-20 March 2021).

Where figures are rounded, discrepancies may occur between sums of the components and the total. All ratios and indices were calculated before rounding.

Symbols:

- Not collected
- 000 Not available
- × Not applicable
- ×× Not calculable
- // Negligible
- * Provisional
- ** Estimated figure
- ⊙ Not for publication (confidential figure)



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Preface

This publication includes the selected results of the livestock farms survey which appear in the form of a number tables for the use of users and researchers in the field of livestock.

The livestock population of the I.R. Iran includes hundreds of thousands of livestock units throughout the country which are often run traditionally for the living economy of rural households. In order to provide a clear picture on the status of the livestock farming and livestock production in these units, designing and conducting a comprehensive survey in the form of census or sampling are needed. Accordingly, the sample survey on the national livestock farms was taken in the first and second months of the autumn (Mehr¹ and Aban), the year 1399 by the Statistical Centre of Iran (SCI).

Considering the widespread and distribution of the livestock units across the country, the SCI prepared the two-stage complex sampling survey. In that survey, a number of 3993 villages and cities were selected as sample units at the first stage. The list of livestock units was extracted from the results of the National Census of Agriculture conducted in the year 1393 and a number of 35589 holders were selected and enumerated as sample units at the second stage.

The SCI expresses its appreciation to all staff in the Deputy Departments for Statistics and Information in the Provincial Plan and Budget Organizations in the country and also the livestock farmers who had sincere and great cooperation in the successful implementation of this survey.

We hope the provided information could be used for decision makers, planners and researchers and the SCI can take effective steps in providing and disseminating statistical information by using their valuable comments.

It should be mentioned that the information of this publication along with a lot of statistical data can be accessed for all users through the national statistical portal at: www.amar.org.ir,

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¹. Iranian months and their equivalent in Gregorian calendar

Farvardin (21 March-20 April)	Mehr (23 September-22 October)
Ordibehesht (21 April-21 May)	Aban (23 October-21 November)
Khordad (22 May-21 June)	Azar (22 November-21 December)
Tir (22 June-22 July)	Dey (22 December-20 January)
Mordad (23 July-22 August)	Bahman (21 January-19 February)
Shahrivar (23 August-22 September)	Esfand (20 February-20 March)

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Introduction

Since the SCI's establishment, the implementation of agriculture censuses and sample surveys have been among the routine programs of this Centre in order to respond to the statistical needs of the planners in the agricultural sector. The international organizations recommend that in the national censuses of agriculture only general information be collected in order to prepare the up-to-date frame of activities in this sector and the detailed information be collected from the subsectors through the sample surveys. Accordingly, the Livestock Farms Survey was implemented in autumn, the year 1399 in 31 provinces of the country. In this survey, the following wide variety of information was collected:

- Number of holdings with livestock
- Number of sheep and lambs, goats and kids by age and sex
- Number of cattle and calves by breed, age and sex
- Number of camels and calves, buffaloes and calves
- Number of livestock born
- Number of livestock sold for slaughter
- Number of livestock slaughtered in the holding
- Quantity of milk production
- Quantity of wool, hair and soft wool production
- Volume of fodders consumption
- Number of workers
- Information for compilation of economic accounts of this sector

Use of the provided information calls for knowledge of concepts, technical terms, and implementing methods used in this survey which may be different from established understandings among the public. In order to prevent any personalized understandings of the survey results, users are recommended to study definitions and concepts used in this survey.

User's guide

Survey method and some of its characteristics

The statistical unit in this survey is the “holdings with livestock” which is the main statistical unit.

This survey was taken as a two-stage sampling. In the first stage, a number of 3993 sample villages and cities were selected and in the second stage, 35589 sample holders were selected from the frame of the National Agriculture Census conducted in the year 1393 and were delivered to the executive organization of the survey in the provinces.

The needed information on the settled households of the holder and public institutions/authorized company was collected by a face-to-face interview with the holder or a member of the household. The information on the unsettled households was collected by face-to-face interview with them or local informed people if the holder were not available.

Important Notes on the Statistical Tables

Every statistical table comprises a title, column headers, description column and context whose contents should be taken into consideration carefully. The tables include numbers that form statistical information and can be understood and explained by three parts (title, column headers and description). In some cases, subjects included in the three parts may not provide comprehensive information to understand the table; therefore, footnotes, definitions and explanations in this guide should be taken into account.

In the title of the tables, the subjects such as level of geographical coverage, statistical date and nature, and the concept of the numbers in the table are explained in general. Column headers and description columns specify the nature and concept of the information in crossed cells of the table accurately. In the statistical tables of this survey, the description column includes information on categorizing holdings with livestock.

Significant Notes

- ✓ In reviewing the results of the survey, it should be noted that due to limitations on selecting the number of samples in provinces (because of executive considerations), estimates of the total country are more accurate than provincial estimates. Also, the results of the survey are affected by relative errors in the sampling survey.
- ✓ In reviewing the trend of the change in the small livestock, please note that the survey time of the National Agriculture Censuses in the years 1372, 1382, and 1393 was in the month of Aban (when the population of the small livestock was at the lowest level as usual) and the livestock sample surveys were taken in the winter of the years 1384, 1387, 1390 and 1393 (the beginning of the breeding season and increase in the population of the small livestock), but in the year 1396, the survey was conducted in the middle of the summer and in the year 1399, the survey was conducted in the middle of the autumn¹.
- ✓ The studies conducted on the abundance of the cattle and calves and comparison between the results of this survey and the previous surveys and censuses on the changes in the number of different types of cattle and calves in the country (indigenous, crossbred, and exotics) show that the number of

¹ Normally, the maximum population of small livestock is in the month of Ordibehesht (the second month of spring season), after which the livestock population decreases until the beginning of the breeding season.

indigenous and crossbred ones, which are traditionally kept with households, is decreasing and the number of exotic ones, which are generally kept in the modern cattle farms according to the sound health, feeding principles and standards, is increasing.

General specifications of the Survey

History

Since the years 1339 to 1366, the information on the livestock activities was collected and disseminated via the rural agricultural surveys along with other information on the agriculture sector. After conducting the National Census of Agriculture in the year 1367 and providing the proper conditions for implementing the specialized sample surveys of the national livestock holdings, the first livestock sample survey was conducted in the year 1371 by using the mentioned Census. After implementing the National Census of Agriculture in the year 1382, the livestock sample surveys in the years 1384, 1387 and 1390 were conducted by using the frame of this Census. After the implementation of the National Census of Agriculture in the year 1393, the livestock sample surveys in the years 1393, 1396 and 1399 were carried out by using the frame of this Census.

Objectives of survey

The objective of the Livestock Farm Survey is to estimate the statistical information on different areas such as “the number of livestock types by age and sex”, “the number of sold livestock for slaughtering”, “milk production”, “volume of fodders consumption”, “number of workers” and “information needed for compilation of economic accounts of this sector” for better understanding of different aspects in this sector.

Survey method

The survey was conducted by using a two—stage sampling method.

Statistical population

In this survey, statistical population includes all agricultural holdings with livestock farm activities (breeding of sheep and lambs, goats and kids, cattle and calves, buffalo and calves and camel and calves) at the time of the survey.

Statistical unit

In this survey, statistical unit is an agricultural holding with livestock farm activity which at least has two head of small livestock (sheep and lambs, and goats and kids) or at least one large livestock (cattle and calves, buffalo and calves and camel and calves) on enumeration day.

Statistical frame

The sampling frame at the first stage includes the list of all cities and villages which have livestock breeding activities according to the results of the National Census of Agriculture conducted in the year 1393 and the information on the number of livestock by type on enumeration day.

The sampling frame of the second stage includes all holdings which had livestock breeding activities on the day of the National Census of Agriculture conducted in the year 1393.

Statistical date

For some part of data, the day of survey is the statistical date and for other parts, the past 365 days as of the survey date.

Survey date

The survey date was from 19th of the month of Mehr to 15th of the month of Aban of the year 1399 (October 10 to November 5, 2020).

Data Collecting Method

The needed information on the households of the private settled holders and public institutions was collected through face-to-face or telephone interviews with the holder or one member of the household. The information on private unsettled holders was collected via face-to-face interviews with the holder or local informed people, otherwise.

Level of information dissemination

The results of this survey were disseminated at provincial level.

Definitions and concepts

Agricultural activities

Agricultural activities covered in the National Census of Agriculture conducted in the year 1393 are activities related to temporary crops, permanent crops, greenhouse production, animal husbandry (livestock raising), traditional raising of poultry, raising of honeybees (apiculture), raising of silkworms (sericulture) and fisheries. In this survey, just livestock was enumerated.

Animal husbandry

It includes raising of small and large livestock and these activities may be done in traditional or modern ways.

Small livestock: refers to sheep, lambs and goats and kids.

Large livestock: refers to cattle and calves, buffalo and calves and camel and calves.

Agricultural holding

All agricultural activities run by a single management is “an agricultural production unit” called agricultural holding.

Holding with livestock

In this survey, each of the agricultural holdings with at least two head of small livestock or one large livestock on enumeration day is called “holding with livestock.”

Holder of agricultural holding

Holding management is typically exercised by members of one or more households (natural persons) or by a public institute/authorized company (legal persons). The person/ persons, running the agricultural holding, who are technically and economically responsible for the holding as well as contributes to its economic profit and loss are called “agricultural holder.”

Holder with livestock

This term is used for a person who has at least two head of small livestock or one large livestock on enumeration day and manages the holding alone or jointly. He/she is responsible for the holding technically and economically as well as directly contributes to its economic profit and loss.

Settled holder

A natural person who has a private holding within the limit of a village or a city of his/her own residence, or contributes to the management of one or more joint holdings with other households.

Unsettled holder

A natural person who lives in a city or a village other than the place of holding (in the sample city or village), regardless of having or not having a holding in the city or village of his/ her own residence.

Authorized company/public institute

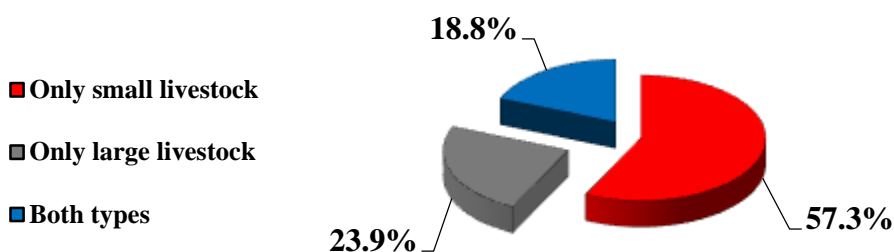
An authorized company refers to any kind of company that is established and registered legally as a company. A public institute is any kind of government organization or non-private institute (except companies).

Important findings

Holdings with livestock activities

On the basis of the results of this survey conducted in the autumn of the year 1399, there were a number of 1.3 million holdings with livestock activities in the country which had one of the livestock types (cattle, sheep, goats, buffalo, and camels) on enumeration day. Also, these results show that 57.3 and 23.9 percent of these holdings had only small livestock and only large livestock, respectively and 18.8 percent had both types.

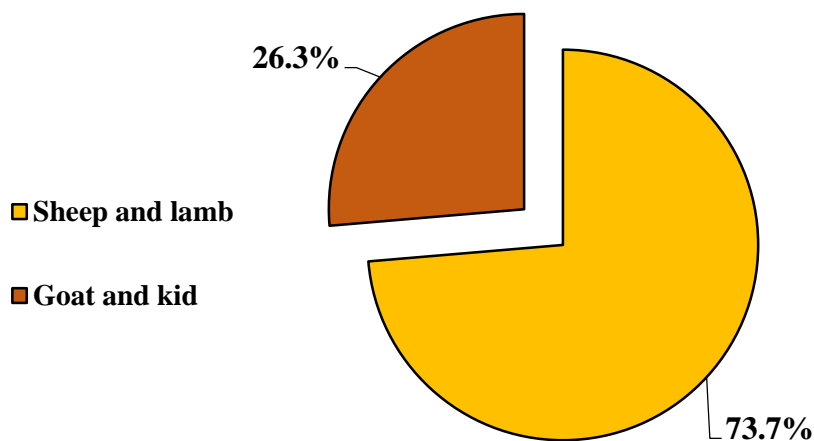
Percentage of national holdings with livestock



Holdings with small livestock

The results of this survey show that more than one million holdings had small livestock on enumeration day out of which 46.6 million head were sheep and lambs and 16.7 million head were goats and kids.

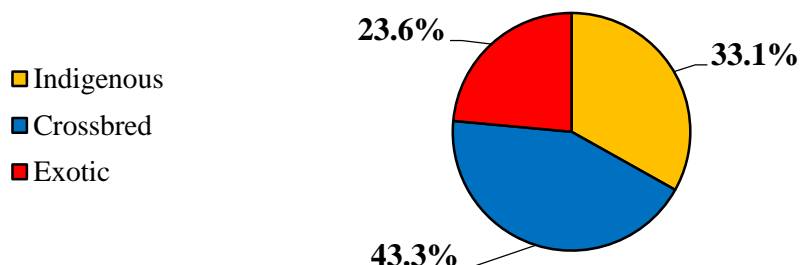
Percentage of the small livestock types



Holdings with cattle and calves

In this survey, there were 560000 holdings with cattle and calves on enumeration day out of which 1.8 million, 2.3 million and 1.3 million head of cattle were indigenous, crossbred and exotic, respectively.

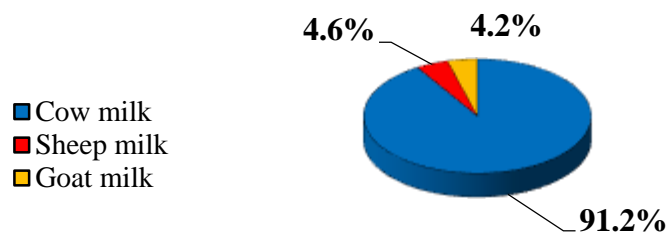
Percentage of cattle and calves types



Milk production

The amount of milk produced from dairy cows, sheep and goats during the last 365 days ending the survey day was 8.2 million tons, out of which 91.2, 4.6, and 4.2 percent was for milk of dairy cows, sheep and goats, respectively.

Percentage of milk production by livestock types



Number of livestock sold for slaughter and slaughtered livestock in holdings

Based on the results of this survey, the number of sheep and lambs, goats and kids, and cattle and calves sold for slaughter were 9.9 million, 27 million and 1.1 million head, respectively. Number of sheep and lambs, goats and kids, and cattle and calves slaughtered in holdings were 1.6 million, 861000 and 80000 head, respectively.

Feeds consumed by livestock

The amount of feeds consumed by cattle and calves during the 365 days ending the enumeration day was 21.6 million tons including straw (28 percent), alfalfa, clover, dried sativa (17.0 percent), corn silage (16 percent), ready-made concentrate (11 percent), bran (10 percent), barley (8 percent), and other animal feeds (10.0 percent). The amount of feeds consumed by sheep and lambs, and goats and kids during the 365 days ending the enumeration day was 21.1 million tons including straw (33.0 percent), barley (24.0 percent), alfalfa, clover and dried sativa (20.0 percent), bran (5.0 percent), ready-made concentrate (4.0 percent), corn silage (2.0 percent); and other animal feeds (12.0 percent.)

Number of workers in holdings with livestock activities

The results show that during the 365 days ending the enumeration day, a number of 2.8 million persons worked in the national livestock holdings out of which 91.0% were unpaid workers and the rest was paid ones.

Statistical tables

**1. HOLDINGS WITH LIVESTOCK ON ENUMERATION DAY BY PROVINCE
(holding)**

Province	Total	Only small livestock	Only large livestock	Both small & large livestock
<i>Total country</i>	1340143	767886	320099	252157
East Azarbayejan	92083	34033	41429	16620
West Azarbayejan	89027	26409	44741	17877
Ardebil	39799	12252	16720	10828
Esfahan	54435	32987	7697	13751
Alborz	3164	2129	634	401
Ilam	15291	11873	2106	1313
Bushehr	10774	7333	1309	2132
Tehran	7708	4663	1950	1094
Chaharmahal & Bakhtiari	20927	10320	5579	5028
South Khorasan	50726	44384	492	5851
Khorasan-e-Razavi	121251	102068	10400	8783
North Khorasan	35031	25376	3659	5996
Khuzestan	66101	23353	18575	24173
Zanjan	31694	15347	8674	7673
Semnan	15336	12683	1038	1614
Sistan & Baluchestan	112682	93690	901	18091
Fars	57423	45892	8038	3493
Qazvin	16872	6489	4098	6285
Qom	4192	2584	809	799
Kordestan	39681	15687	13178	10816
Kerman	85647	61891	8248	15507
Kermanshah	34921	19385	8852	6684
Kohgiluyeh & Boyerahmad	18494	11242	3110	4142
Golestan	39084	13998	14203	10882
Gilan	63156	2145	53235	7777
Lorestan	43177	22568	9294	11315
Mazandaran	43978	13036	19499	11442
Markazi	31288	18995	4216	8077
Hormozgan	45440	40514	1268	3657
Hamedan	36689	22549	5628	8512
Yazd	14071	12009	521	1541

2. HOLDINGS WITH SHEEP AND LAMBS ON ENUMERATION DAY AND THE NUMBER OF THEIR LIVESTOCK BY PROVINCE (holding-head)

Province	Number of holdings	Number of sheep and lambs on enumeration day		
		Total		
		Both sexes	Female	Male
Total country	814902	46587010	39062312	7524697
East Azarbayejan	50104	3132407	2609690	522716
West Azarbayejan	42661	3274987	2858251	416736
Ardebil	22580	1719192	1473407	245785
Esfahan	39962	2294864	1860234	434630
Alborz	2490	282993	245829	37164
Ilam	12144	860720	793457	67263
Bushehr	4358	202821	172407	30414
Tehran	5626	861324	677803	183522
Chaharmahal & Bakhtiari	12400	978103	867378	110725
South Khorasan	45132	964308	677751	286557
Khorasan-e-Razavi	105182	5671391	4723301	948090
North Khorasan	28945	1467853	1232739	235113
Khuzestan	34651	2541720	2207135	334586
Zanjan	21708	1134401	962388	172012
Semnan	13314	1314076	1111480	202596
Sistan & Baluchestan	41913	1248430	1007605	240824
Fars	35057	2582124	2166882	415242
Qazvin	12642	1054664	905501	149163
Qom	3174	420944	330430	90514
Kordestan	25908	1106873	951160	155714
Kerman	49885	2081595	1637845	443751
Kermanshah	23473	1259011	1076125	182886
Kohgiluyeh & Boyerahmad	7456	352681	319562	33119
Golestan	23150	1274929	1161944	112985
Gilan	9493	462381	395451	66930
Lorestan	31570	2804030	2443569	360462
Mazandaran	24065	1181170	995118	186052
Markazi	26299	1756273	1451604	304669
Hormozgan	19173	254458	198229	56229
Hamedan	30595	1726482	1289694	436788
Yazd	9792	319805	258343	61462

2. HOLDINGS WITH SHEEP AND LAMBS ON ENUMERATION DAY AND THE NUMBER OF THEIR LIVESTOCK BY PROVINCE (continued) (holding-head)

Province	Number of sheep and lambs on enumeration day					
	One year old and over			Less than one year old		
	Both sexes	Female	Male	Both sexes	Female	Male
Total country	33709765	3068399 0	3025775	12877245	8378322	449892 3
East Azarbayejan	2217131	2023126	194005	915275	586564	328711
West Azarbayejan	2483225	2278411	204813	791763	579840	211923
Ardebil	1208131	1134420	73712	511060	338987	172073
Esfahan	1655924	1485445	170480	638940	374790	264150
Alborz	201166	183586	17580	81828	62243	19585
Ilam	724073	684240	39833	136647	109217	27430
Bushehr	151783	137726	14056	51038	34680	16358
Tehran	610445	535085	75360	250880	142718	108162
Chaharmahal & Bakhtiari	774463	729031	45433	203639	138347	65293
South Khorasan	675126	502509	172617	289181	175242	113939
Khorasan-e-Razavi	4260994	3819658	441336	1410397	903644	506754
North Khorasan	1056368	975220	81148	411485	257520	153965
Khuzestan	1913873	1785075	128798	627848	422059	205788
Zanjan	721824	679982	41841	412577	282406	130171
Semnan	981347	906038	75309	332728	205442	127287
Sistan & Baluchestan	775258	683571	91687	473171	324035	149137
Fars	1819436	1665543	153893	762688	501339	261350
Qazvin	710663	675697	34966	344001	229803	114197
Qom	280566	269564	11002	140378	60866	79512
Kordestan	805057	767051	38006	301816	184109	117707
Kerman	1474295	1264933	209362	607300	372912	234389
Kermanshah	962504	890406	72099	296507	185720	110787
Kohgiluyeh & Boyerahmad	275949	262575	13374	76732	56987	19746
Golestan	1006440	956657	49782	268489	205287	63202
Gilan	315366	284903	30464	147015	110548	36466
Lorestan	2045175	1898924	146251	758855	544644	214211
Mazandaran	833427	769449	63978	347743	225669	122074
Markazi	1226767	1121498	105269	529506	330106	199400
Hormozgan	188213	157811	30402	66245	40418	25827
Hamedan	1128862	954087	174775	597619	335607	262013
Yazd	225914	201769	24145	93892	56575	37317

3. HOLDINGS WITH GOATS AND KIDS ON ENUMERATION DAY AND THE NUMBER OF THEIR LIVESTOCK BY PROVINCE (holding-head)

Province	Number of holdings	Number of goats and kids on enumeration day		
		Total		
		Both sexes	Female	Male
Total country	697907	16663721	13536777	3126944
East Azarbayejan	31480	465827	396437	69390
West Azarbayejan	24863	399965	362769	37196
Ardebil	16013	300948	257178	43770
Esfahan	27607	758791	599628	159163
Alborz	1126	31330	26753	4577
Ilam	9979	281787	252889	28898
Bushehr	9114	366553	304996	61557
Tehran	3270	85886	65070	20816
Chaharmahal & Bakhtiari	10486	341858	301047	40811
South Khorasan	39220	631317	461609	169709
Khorasan-e-Razavi	69435	729945	598359	131586
North Khorasan	17309	338300	282646	55654
Khuzestan	36585	1378066	1170418	207648
Zanjan	15051	175087	145471	29617
Semnan	10768	455167	374140	81027
Sistan & Baluchestan	101168	1821123	1420283	400839
Fars	45270	2445102	1986165	458938
Qazvin	6058	119297	92275	27022
Qom	2716	105009	74230	30779
Kordestan	16119	186685	159721	26965
Kerman	55098	1982255	1516587	465669
Kermanshah	16656	240781	198747	42034
Kohgiluyeh & Boyerahmad	14774	703903	623840	80063
Golestan	11806	248101	223016	25084
Gilan	3742	92487	71083	21403
Lorestan	23511	647707	543032	104676
Mazandaran	5677	145225	116553	28673
Markazi	12858	244086	192767	51320
Hormozgan	36676	565027	427766	137261
Hamedan	12856	117759	90157	27602
Yazd	10614	258344	201147	57197

3. HOLDINGS WITH GOATS AND KIDS ON ENUMERATION DAY AND THE NUMBER OF THEIR LIVESTOCK BY PROVINCE (continued) (holding-head)

Province	Number of goats and kids on enumeration day					
	One year old and over			Less than one year old		
	Both sexes	Female	Male	Both sexes	Female	Male
Total country	11702597	1033000	1372590	4961124	3206770	175435
		7				4
East Azarbayejan	341599	304887	36711	124229	91550	32679
West Azarbayejan	315838	295552	20286	84127	67217	16910
Ardebil	207352	190402	16950	93596	66776	26820
Esfahan	533466	466914	66552	225325	132714	92611
Alborz	23389	20729	2660	7941	6024	1917
Ilam	227148	209768	17380	54639	43121	11518
Bushehr	256190	231850	24341	110363	73146	37217
Tehran	60264	50071	10193	25622	14998	10624
Chaharmahal & Bakhtiari	261719	238177	23542	80139	62870	17270
South Khorasan	426251	336385	89865	205067	125223	79843
Khorasan-e-Razavi	530531	466406	64125	199414	131953	67461
North Khorasan	232058	213748	18309	106243	68898	37345
Khuzestan	1019435	938595	80840	358631	231824	126808
Zanjan	118897	107830	11068	56190	37641	18549
Semnan	331408	297217	34192	123759	76923	46835
Sistan & Baluchestan	1158670	1000363	158307	662453	419920	242533
Fars	1738931	1520610	218321	706171	465555	240616
Qazvin	77521	66661	10860	41776	25614	16162
Qom	62479	53848	8631	42530	20382	22148
Kordestan	126943	122186	4757	59743	37535	22207
Kerman	1332248	1120924	211324	650007	395662	254345
Kermanshah	170077	151210	18867	70704	47537	23167
Kohgiluyeh & Boyerahmad	533622	511841	21782	170280	111999	58281
Golestan	193628	178383	15246	54472	44634	9839
Gilan	61594	51032	10563	30892	20052	10841
Lorestan	438710	402980	35730	208997	140052	68945
Mazandaran	100013	86310	13703	45213	30243	14970
Markazi	161134	138652	22482	82952	54114	28838
Hormozgan	409118	336911	72207	155909	90856	65054
Hamedan	76225	64110	12115	41534	26047	15487
Yazd	176137	155455	20682	82207	45692	36515

4. HOLDINGS WITH CATTLE AND CALVES ON ENUMERATION DAY AND THE NUMBER OF THEIR LIVESTOCK BY PROVINCE (holding-head)

Province	Number of holdings	Number of cattle and calves on enumeration day		
		Total		
		Both sexes	Female	Male
Total country	560802	5323974	3974891	1349083
East Azarbayejan	57149	526622	408072	118550
West Azarbayejan	61993	412166	333266	78899
Ardebil	27368	270062	215725	54337
Esfahan	20996	243772	190734	53038
Alborz	1028	73744	57479	16265
Ilam	3418	15803	12906	2897
Bushehr	3333	24764	14206	10557
Tehran	3044	359083	193454	165628
Chaharmahal & Bakhtiari	10607	55534	44182	11352
South Khorasan	5856	28769	22266	6503
Khorasan-e-Razavi	18996	272302	210517	61785
North Khorasan	9655	51871	39934	11937
Khuzestan	40206	351103	263638	87464
Zanjan	16347	105029	82494	22535
Semnan	2572	61793	46277	15516
Sistan & Baluchestan	14431	80955	58483	22473
Fars	11357	228077	165593	62483
Qazvin	10383	182038	105908	76131
Qom	1565	72243	21107	51136
Kordestan	23994	114746	95207	19540
Kerman	23588	157356	114350	43006
Kermanshah	15535	91216	66867	24349
Kohgiluyeh & Boyerahmad	7252	28884	23627	5257
Golestan	24838	204581	182019	22563
Gilan	60770	407152	326842	80310
Lorestan	20609	167643	135088	32555
Mazandaran	30940	434923	350918	84006
Markazi	12292	102148	42124	60024
Hormozgan	4721	18677	15005	3672
Hamedan	14140	115231	84298	30933
Yazd	1818	65687	52305	13382

4. HOLDINGS WITH CATTLE AND CALVES ON ENUMERATION DAY AND THE NUMBER OF THEIR LIVESTOCK BY PROVINCE (continued) (holding-head)

Province	Number of cattle and calves on enumeration day					
	Two years old and over			Less than two years old		
	Both sexes	Female	Male	Both sexes	Female	Male
Total country	3083515	2746000	337515	2240459	1228891	1011568
East Azarbayegan	312822	272153	40669	213799	135918	77881
West Azarbayegan	240848	223209	17639	171318	110057	61261
Ardebil	159726	147962	11764	110336	67763	42573
Esfahan	132919	123259	9661	110853	67476	43377
Alborz	44070	38717	5353	29674	18763	10912
Ilam	10262	9478	783	5541	3428	2113
Bushehr	13561	10709	2853	11202	3498	7704
Tehran	149730	125958	23772	209352	67496	141856
Chaharmahal & Bakhtiari	33120	31433	1687	22413	12749	9665
South Khorasan	16606	14316	2290	12163	7950	4213
Khorasan-e-Razavi	180399	152791	27608	91903	57726	34177
North Khorasan	30390	27730	2660	21482	12204	9278
Khuzestan	212029	189799	22230	139074	73840	65234
Zanjan	60057	55254	4803	44972	27240	17733
Semnan	39832	33361	6471	21961	12917	9045
Sistan & Baluchestan	48179	37450	10729	32776	21032	11744
Fars	137911	118131	19780	90166	47463	42703
Qazvin	66967	65591	1376	115072	40317	74754
Qom	15528	13515	2012	56715	7591	49124
Kordestan	67420	65310	2110	47326	29897	17430
Kerman	104916	81073	23842	52440	33277	19163
Kermanshah	52191	47072	5120	39024	19795	19229
Kohgiluyeh & Boyerahmad	18631	17290	1341	10253	6337	3916
Golestan	135091	131121	3970	69491	50898	18593
Gilan	254321	230634	23687	152831	96208	56623
Lorestan	110272	96155	14117	57371	38933	18438
Mazandaran	277951	252785	25167	156972	98133	58839
Markazi	35956	29489	6467	66192	12635	53557
Hormozgan	12876	11393	1483	5801	3612	2189
Hamedan	68657	56071	12586	46574	28227	18347
Yazd	40278	36793	3485	25409	15512	9897

5. MILK PRODUCTION IN HOLDINGS WITH LIVESTOCK BY KIND OF LIVESTOCK AND PROVINCE
(holding-head-metric ton)

Province	Total milk production	Cattle			Sheep			Goat		
		Number of holdings	Milked livestock	Milk production	Number of holdings	Milked livestock	Milk production	Number of holdings	Milked livestock	Milk Production
Total country	8236026	506672	2038571	7508993	378836	11371807	376202	492167	7048013	350831
East Azarbayejan	832178	54035	239158	731338	45586	1818776	81613	28443	259130	19226
West Azarbayejan	406141	59267	163003	353722	32719	1308691	41727	19931	178159	10692
Ardebil	273639	25728	106392	214927	19225	886612	42878	13719	165703	15834
Esfahan	602304	16934	89810	585597	3934	88398	2247	19274	306822	14461
Alborz.....	195919	729	28754	190432	1590	88747	4798	829	11305	690
Ilam	33074	3247	8777	22540	6390	311723	6949	6930	114998	3584
Bushehr	20280	2750	6047	12295	1531	57583	2387	4949	121192	5598
Tehran	803178	1828	95043	799230	1059	154135	3407	845	18996	541
Chaharmahal & Bakhtiyari	141547	9750	26929	133479	1461	60862	726	7528	179314	7341
South Khorasan	69892	5521	12909	56247	27992	231278	3691	33038	246288	9955
Khorasan-e-Razavi	921034	18273	121991	862569	77139	2202835	50012	49749	278739	8452
North Khorasan	83141	8806	23367	74023	18182	478441	6633	10381	112419	2485
Khuzestan	213227	37083	115081	190106	3909	157202	6889	18766	436129	16233
Zanjan	141580	14593	40935	128269	13584	273385	8833	11530	71844	4478
Semnan	188534	2129	23111	171326	6935	348423	9111	7748	189196	8096
Sistan & Baluchestan	119973	12135	34820	75908	19842	323501	15612	75401	586077	28453
Fars	641366	10873	96433	547655	7951	215342	7127	32976	1781297	86583
Qazvin	345750	8890	59732	343075	993	68415	1386	2494	32491	1289
Qom	92323	1018	12154	87939	647	26186	1824	2101	32022	2561
Kordestan	104982	22971	55387	85556	18249	402261	13598	13802	98990	5828
Kerman	332960	19955	56981	272713	27071	567772	21888	33998	605319	38359
Kermanshah	136429	14802	40646	118418	11005	382137	12629	11879	116150	5382
Kohgiluyeh & Boyerahmad	42637	6210	10740	25669	57	3378	116	14323	376094	16852
Golestan	187587	22488	71985	182138	3792	150662	3789	2861	51784	1660
Gilan	100536	48850	125870	93771	6920	184664	5584	2288	26811	1181
Lorestan	210095	19619	72378	196341	3680	91825	3188	19221	284358	10566
Mazandaran	470500	30428	201102	454260	8268	361660	13882	2765	48169	2358
Markazi	103160	10995	23795	100998	590	15562	235	3810	37499	1927
Hormozgan	18876	1887	4392	11152	4579	36470	1553	25257	134446	6171
Hamedan	229571	13198	45495	226379	3381	49234	1601	5797	27644	1592
Yazd	173611	1677	25358	160919	577	25649	289	9532	118627	12402

6. NUMBER OF LIVESTOCK SOLD FOR SLAUGHTER AND SLAUGHTERED IN HOLDINGS WITH LIVESTOCK ACTIVITIES BY PROVINCE (head)

Province	Sheep and lambs		Goats and kids		Cattle and calves	
	Sold for slaughter	Slaughtered in the holding	Sold for slaughter	Slaughtered in the holding	Sold for slaughter	Slaughtered in the holding
Total	9861964	1626381	2714381	860997	1060162	80460
East Azarbayejan	247596	87123	16871	3594	38651	3350
West Azarbayejan	760721	70663	92551	11433	23654	8211
Ardebil	452660	73138	49336	23824	23588	3736
Esfahan	756219	95917	248919	45287	46448	3333
Alborz	69329	5095	6158	525	15943	761
Ilam	272709	36026	81606	15885	3859	52
Bushehr	53229	4107	75758	16392	4488	12
Tehran	270016	30896	16049	3590	184850	12955
Chaharmahal & Bakhtiari	451105	30788	101517	13760	13148	164
South Khorasn	89969	61660	45509	47419	2873	25
Khorasan-e-Razavi	1128088	194802	76545	38822	37763	2754
North Khorasn	342672	36419	65158	13760	8615	2608
Khuzestan	537048	86458	353277	66241	128576	10750
Zanjan	84226	36275	3913	13155	8934	890
Semnan	308550	32764	102671	16104	15873	800
Sistan & Baluchestan	161266	118581	153093	141508	63634	5583
Fars	488875	68635	452555	117029	60371	2912
Qazvin	181855	30214	13427	5207	73846	3803
Qom	324268	3090	65008	1372	56808	2025
Kordestan	134480	19606	15374	2117	4706	224
Kerman	367303	101827	200708	93160	6384	1772
Kermanshah	90719	52553	1621	21878	2991	272
Kohgiluyeh & Boyerahmad	112003	8052	183433	28716	3058	41
Golestan	195224	45978	16024	10258	26805	2884
Gilan	69754	13614	5516	554	25031	1217
Lorestan	759508	70287	115200	47528	36513	2179
Mazandaran	454175	49599	35275	2507	67516	4293
Markazi	400825	65519	41260	13613	54137	1819
Hormozgan	14643	18899	41327	30197	694	79
Hamedan	222905	61558	9968	5810	11317	515
Yazd	60022	16241	28754	9751	9087	440

7. AMOUNT OF LIVESTOCK FEEDS CONSUMED IN THE HOLDINGS WITH SHEEP AND LAMBS AND GOATS AND KIDS BY PROVINCE (Ton)

Province	Straw	Barely	Alfalfa, clover, dried sainfoin	Bran	Maize silage
Total	6933233	4969115	4237696	1073941	452305
East Azarbayejan	258132	186696	343325	88226	22305
West Azarbayejan	379566	203368	440851	25557	15955
Ardebil	151402	155639	250800	29589	16437
Esfahan	411426	285535	299192	60632	66350
Alborz	36215	30501	35874	23464	5798
Ilam	100701	89873	6455	1002	150
Bushehr	27423	28851	15786	4669	182
Tehran	170755	161080	199280	107047	38590
Chaharmahal & Bakhtiari	107831	84041	70297	7251	11598
South Khorasn	105975	91658	16084	14357	4433
Khorasan-e-Razavi	561932	423191	267310	62586	37452
North Khorasn	140162	151675	93284	6786	5508
Khuzestan	1461643	835511	98931	104064	25250
Zanjan	120421	76843	164901	11047	22356
Semnan	81068	127333	68291	20971	5420
Sistan & Baluchestan	174040	66879	93418	81064	1150
Fars	353414	383434	266905	23613	8653
Qazvin	129080	84047	119487	14842	13789
Qom	53285	69034	46246	1128	1086
Kordestan	142328	35221	120744	9246	1088
Kerman	410784	382070	573742	79587	67798
Kermanshah	220810	103018	49176	4212	3070
Kohgiluyeh & Boyerahmad	37537	27007	19593	1040	109
Golestan	134422	149589	9277	64564	26361
Gilan	34642	21028	16583	7506	2655
Lorestan	355635	250236	91517	5977	7843
Mazandaran	150584	79786	64293	147133	7384
Markazi	225478	164664	135585	18171	13216
Hormozgan	95369	58038	63281	17348	2752
Hamedan	234278	121560	158748	27308	14286
Yazd	66895	41708	38441	3956	3282

7. AMOUNT OF LIVESTOCK FEEDS CONSUMED IN THE HOLDINGS WITH SHEEP AND LAMBS AND GOATS AND KIDS BY PROVINCE (continued) (Ton)

Province	Ready-made concentrate	Dried beet pulp	Meal	Other
Total	768979	173255	74338	2429391
East Azarbayejan	30959	1196	180	70075
West Azarbayejan	44766	15173	1467	51298
Ardebil	1603	6972	396	16680
Esfahan	75101	41953	2111	104403
Alborz	200	1992	47	8342
Ilam	1240	10	0	5966
Bushehr	8	0	0	7778
Tehran	9008	4293	1821	18575
Chaharmahal & Bakhtiari ...	11957	1325	674	16353
South Khorasn	42196	1331	62	30003
Khorasan-e-Razavi	144876	14827	512	94583
North Khorasn	32542	12336	69	20458
Khuzestan	62322	18050	793	238663
Zanjan	11483	0	0	12292
Semnan	15937	84	28	1400
Sistan & Baluchestan	1605	0	0	1037979
Fars	24693	4533	3183	14765
Qazvin	17158	2081	51	21480
Qom	14621	13	0	1743
Kordestan	5486	0	0	97277
Kerman	37113	2506	48527	374111
Kermanshah	160	57	238	19381
Kohgiluyeh & Boyerahmad ..	177	0	0	14322
Golestan	21891	12431	657	29707
Gilan	1758	1579	0	5299
Lorestan	9430	0	469	11746
Mazandaran	39033	22913	1108	50000
Markazi	29540	578	25	22134
Hormozgan	41050	5759	7256	19694
Hamedan	9555	813	502	5340
Yazd	31511	450	4163	7545

8. AMOUNT OF LIVESTOCK FEEDS CONSUMED IN THE HOLDINGS WITH CATTLE AND CALVES BY PROVINCE

Province	Straw	Alfalfa, clover, dried sainfoin	Maize silage	Ready—made concentrate	Bran
Total	6089104	3719307	3376626	2330815	2203824
East Azarbayejan	299566	428291	97738	173580	155299
West Azarbayejan	490512	505520	111608	105690	103984
Ardebil	204598	225236	179892	10180	74054
Esfahan	347474	221316	448624	274294	83013
Alborz.....	64240	67534	90645	18426	41753
Ilam	26902	2566	1041	2469	5607
Bushehr	27645	7305	7452	2144	11618
Tehran	443016	374398	547963	149318	170215
Chaharmahal & Bakhtiari	81681	48492	107657	25929	27213
South Khorasan	38539	14290	9324	53467	2816
Khorasan-e-Razavi	225811	198635	347021	240825	44862
North Khorasan	48181	51676	16140	39267	8240
Khuzestan	636376	104654	89571	96699	266196
Zanjan	85926	111481	64191	35840	16726
Semnan	51306	54626	62356	113404	4697
Sistan & Baluchestan	107042	19868	1620	12461	78904
Fars	202398	97512	365970	90973	119903
Qazvin	233250	277066	284401	195447	106558
Qom	50918	59639	32262	101986	16901
Kordestan	447682	97397	13893	8126	12782
Kerman	164337	221679	95699	74665	54768
Kermanshah	112788	38464	20242	9487	135049
Kohgiluyeh & Boyerahmad	19336	12937	6133	7592	5911
Golestan	224409	11586	57741	62420	92371
Gilan	417124	80386	11014	26710	91867
Lorestan	226684	84392	53717	72005	49310
Mazandaran	367663	72439	49229	137972	296488
Markazi	124306	81917	78110	62402	68461
Hormozgan	18491	12980	1711	6030	6670
Hamedan	131444	97841	63601	42363	42660
Yazd	169461	37186	60062	78643	8929

8. AMOUNT OF LIVESTOCK FEEDS CONSUMED IN THE HOLDINGS WITH CATTLE AND CALVES BY PROVINCE (continued)

Province	Barley	Dried beet pulp	Meal	Other
<i>Total</i>	1736277	402660	249573	1537105
East Azarbayejan	143526	3744	1841	47037
West Azarbayejan	49011	18018	311	63868
Ardebil	78900	7419	11084	69042
Esfahan	126729	48270	52418	170958
Alborz	37296	9203	21554	38868
Ilam	8587	311	0	5071
Bushehr	6236	0	0	3994
Tehran	327058	64775	61531	186683
Chaharmahal & Bakhtiari .	26520	2224	6721	12667
South Khorasn	13886	1530	90	1119
Khorasan-e-Razavi	72006	31396	11517	69337
North Khorasn	16058	1397	1873	7486
Khuzestan	129842	46359	5127	132779
Zanjan	23026	1650	4641	18022
Semnan	6130	1660	736	4817
Sistan & Baluchestan	2026	35	23	97512
Fars	96459	7397	13043	56218
Qazvin	87408	24410	11020	131678
Qom	22757	2984	299	18911
Kordestan	5845	1092	235	70574
Kerman	77805	169	7430	63601
Kermanshah	27349	985	5043	21683
Kohgiluyeh & Boyerahmad	10017	340	1043	1587
Golestan	55226	5542	6119	59245
Gilan	36683	14603	1807	11425
Lorestan	64449	16708	964	4255
Mazandaran	40122	80335	9062	86622
Markazi	66780	3493	4267	58239
Hormozgan	6567	0	235	1216
Hamedan	52184	4189	9506	16943
Yazd	19788	2421	33	5647

9. NUMBER OF MALE AND FEMALE WORKERS IN HOLDINGS WITH LIVESTOCK ACTIVITIES DISAGGREGATED BY PAID AND UNPAID STATUS AND BY PROVINCE
(Person)

Province	Total	Paid	Unpaid
<i>Total country</i>	2805650	254423	2551227
East Azarbayejan	176459	5842	170617
West Azarbayejan	236908	31149	205759
Ardebil	109226	5115	104111
Esfahan	113790	15216	98574
Alborz	9922	3787	6136
Ilam	34596	241	34355
Bushehr	24632	976	23656
Tehran	21585	10429	11156
Chaharmahal & Bakhtiari	40883	4074	36809
South Khorasan	87561	6659	80901
Khorasan-e-Razavi	222523	25915	196608
North Khorasan	75097	5310	69788
Khuzestan	162973	5098	157876
Zanjan	89851	17141	72710
Semnan	25884	6126	19758
Sistan & Baluchestan	200112	30628	169484
Fars	128572	10132	118439
Qazvin	41379	2824	38554
Qom	8960	1978	6982
Kordestan	95730	10573	85157
Kerman	173086	16367	156719
Kermanshah	90665	2960	87706
Kohgiluyeh & Boyerahmad	47192	1201	45990
Golestan	75811	7352	68459
Gilan	119428	2906	116523
Lorestan	101110	2408	98703
Mazandaran	68838	4605	64233
Markazi	62300	9730	52570
Hormozgan	57732	1772	55960
Hamedan	81779	3494	78286
Yazd	21065	2418	18647