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Jawzjan Province Agricultural Profile 2008



Prepared by the National Agriculture Information System (NAIS)/AgNet
for the Afghan Ministry of Agriculture, Irrigation and Livestock (MAIL)

<u>Indexes</u>	<u>Pages</u>
➤ Agriculture Profile and Data	3
➤ Crop Production by Chart	4
➤ Grain Production	5
➤ Fruit Production	6
➤ Vegetable Production	7
➤ Fodder and Industrial Crops	8
➤ Household Livestock	9

Annexes

• Annex 1: Crop Surveyed by Hectares , production and Value	10
• Annex 2: Ranking of Production by Tons Surveyed Annually	11
• Annex 3: Harvest Season of Agriculture Crops Surveyed	12
• Annex 4: District Profile Summary	13
• Annex 5: Number of Household Animals and Poultry	14
• Annex 6: Land Use Status	15
• Annex 7: Crop Calendar	16

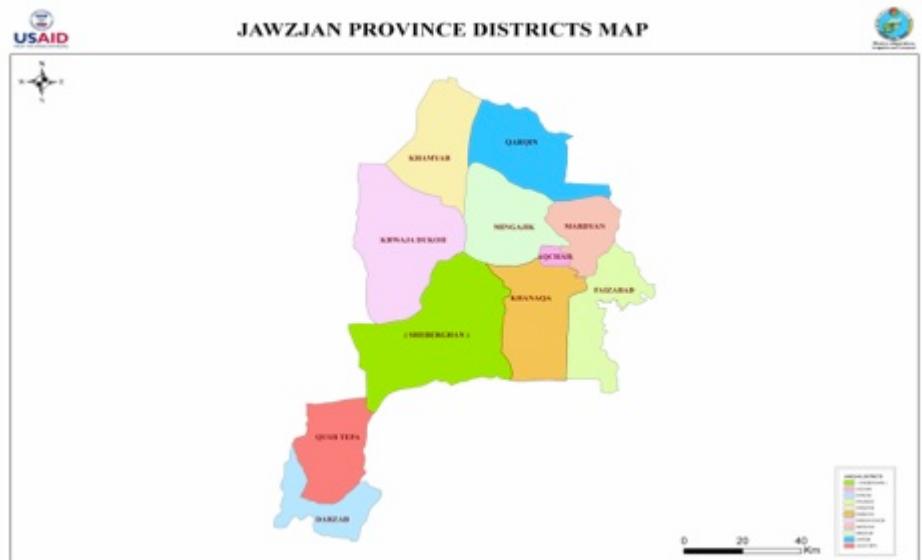
Maps

❖ Jowzjan Province Standard Map.....	17
❖ Jowzjan Province Agriculture Map	18
❖ Jowzjan Province Wheat Production Map	19
❖ Jowzjan Province Alfalfa Production Map	20
❖ Jowzjan Province Onion Planting Date Map	21
❖ Jowzjan Province Onion Harvesting Date Map	22
❖ Jowzjan Province Livestock Map	23
❖ Jowzjan Province Livestock (Goats) Map	24
❖ Jowzjan Province Poultry Map	25

Agriculture

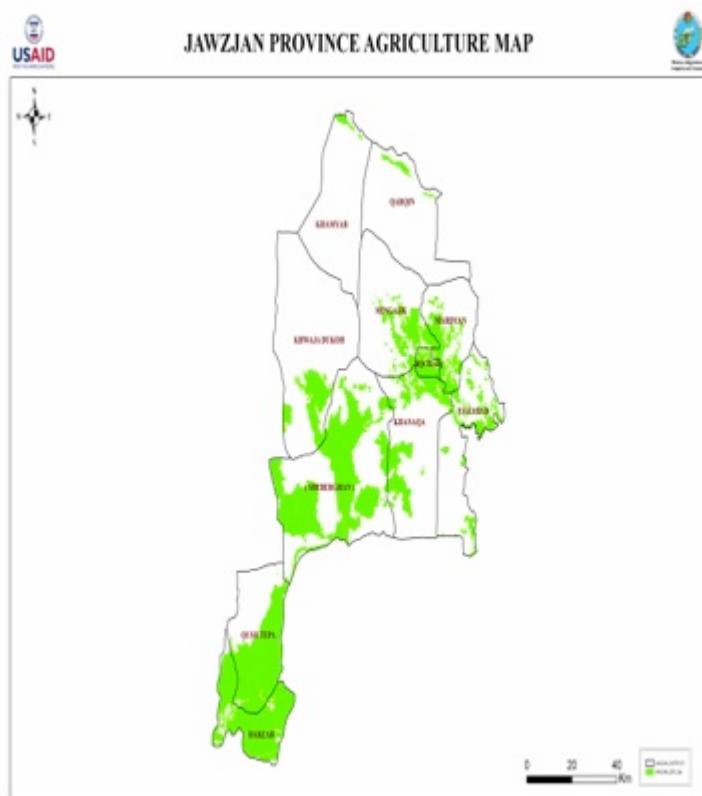
Profile and Data

Jowzjan Province



Jowzjan Brief Introduction:

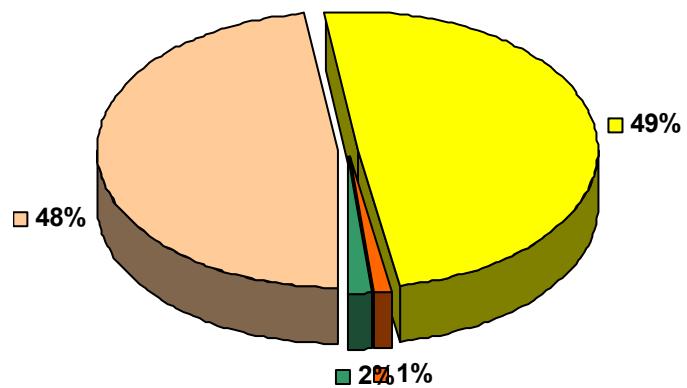
Jowzjan is located in northern Afghanistan between 34.51-3604 degrees latitude and 62.67-65.07 degrees longitude. Jowzjan shares an international border with Turkmenistan to the north, and is bordered by the Afghan provinces of Faryab to the west, Saripul province to the south and Balkh province to the east. The province is divided into 11 districts, covering an area comprising 1,013,308.7 hectares of which 225,917 are used for agricultural purposes. Jowzjan is a multi ethnic province with many Uzbek, Turkmen, Pashtun and Tajiks tribes. The province is home to 391 villages and as of 2008 there was an estimated population of 468,000 people. Most people are occupied in raising sheep, cattle and goats, making Jowzjan most famous for its karakul skins, carpets and wool.



In 2008, Jowzjan farmers grew 38 crops on approximately 89,780 hectares of land (2.15 percent of total area). Seventy-five percent of cultivated land is concentrated in 7 of the 11 provinces, mostly those located in the southern and central districts of the province due to the fertile soil and the vicinity to the Sheberghan River. In the north, residents are occupied with raising livestock because of the presence of hills and mountains. The districts of Jowzjan are:

- | | | |
|---------------|-------------|---------------|
| 1) Sheberghan | 5) Darzab | 9) Khoja doko |
| 2) Aqcha | 6) Fazabad | 10) Khamab |
| 3) Qarqen | 7) Murdian | 11) Mangajik |
| 4) Khanaqa | 8) Qushtepa | |

The total 2008 crop production surveyed in Jowzjan province was 241,141 metric tons (MT). Upon closer inspection, it was found that nearly half (49.5 percent) of this total was made up of fruits and half consisted of grains (48 percent). Industrial crops and animal fodder amount to 1.5 percent and vegetables only 1 percent of the province's total agricultural production. The total market value of the 2008 harvest was estimated at \$112 million.



Of the province's 11 districts, Sheberghan was the most productive in 2008 (52.6 percent of all production). Moreover, farmers of the district grew the most in all categories: 63,000 MT of grain, 2,100 MT of fruit and 1,100 MT of vegetables. Aqcha district contributed 12.5 percent of Jowzjan's 2008 harvest.

Research Methodology

This report was prepared based on information provided by AgNet/NAIS system. In 2007 and 2008 AgNet Conducted two separate surveys (1) district profile survey and (2) agricultural statistic survey in 19 provinces of Afghanistan with the support of ASAP and MAIL at district level. During a period of 4 months each, more than 50 surveyors collected information related to the number of hectares land cultivated types of products produced number of livestock, crop calendar, sources of water and much more agricultural information. The information presented in this report is based exclusively in the area surveyed, not in the total farm land of the provinces. The AgNet/NAIS data base for Jowzjan is the most accurate database available in the country in spite there is not estimation rewarding the level of exactitude of the information. All data related to harvest amounts was checked in July 2008 by ASAP personnel (Prof. A. Ghani Taj Agricultural Information Specialist and former professor of Kabul University and Ahmad Jawid Abid Survey and Data Assistant) by comparing the national average productivity level of each products. Crop value information was determined on wholesale price in Jowzjan and collected by Jowzjan AgNet officer Mr. Baba Nazar and approved by the director of Jowzjan Provincial Agriculture department Mr. Abdul Rasheed in November 2008.

Grains

Jowzjan's 2008 annual grain production was approximately 115,505 MT and had a representing market value of \$68 million. Almost all (94.6 percent) was wheat, which amounted to \$65 million in revenue. The remaining 5.4 percent comprised other grain crop with value of \$3.7 millions.

Grain	Tons	Value USD \$
Wheat	109,291	\$ 65,574,360
Barely	3,270	\$ 1,438,800
Maize	2,316	\$ 1,296,960
Mung bean	311	\$ 186,300
Pea	193	\$ 173,700
Red Bean	52	\$ 52,300
Other Grain	72	\$ 31,680
Total	115,505	\$ 68,754,100

Farmers grew wheat, barley and mung beans in all districts of Jowzjan province. Wheat production in these districts amounts to almost 95 percent of total grain production in Jowzjan. Sheberghan district contributed the largest volume of wheat (56.5 percent) in 2008. The figures presented in the table below are in kg.

	Wheat	Barely	Maize	M. Bean	Pea	Red bean	Other grain
Darzab	4,834,000	225,500	-	-	800	-	-
Aqcha	7,725,000	560,000	320,000	100,000	1,200	4,000	-
Khanaqa	1,630,000	60,000	-	4,000	4,000	-	-
Mangajik	6,994,000	435,000	80,000	3,500	20,000	-	-
Faiz Abad	7,128,000	375,000	250,000	10,000	10,000	-	-
Khoja Doko	5,864,000	336,000	104,000	4,000	25,000	-	4,500
Murdian	5,320,000	435,000	-	4,000	4,000	-	-
Khamab	1,106,000	30,000	250,000	8,000	4,000	8,700	-
Qarqeен	1,553,000	30,000	312,000	8,000	4,000	7,600	17,500
Sheberghan	61,836,000	251,000	1,000,000	160,000	120,000	32,000	50,000
Quash Tipa	5,300,600	532,500	-	9,000	-	-	-
Total in KG	109,290,600	3,270,000	2,316,000	310,500	193,000	52,300	72,000

Fruits

Jowzjan's 2008 fruit production was calculated at an estimated 119,181 MT with a value of over \$38.8 million. Melons and watermelons made up the majority (97 percent) of all fruit production and grapes and apricot together amounted to only 2 percent of all fruits grown in the province during 2008.

Fruits	Tons	Value USD \$
Grape	1,225	\$ 1,224,520
Apple	78	\$ 62,480
Mulberries	438	\$ 438,200
Almond	251	\$ 1,102,200
Apricot	1,224	\$ 1,224,000
Melon	67,070	\$ 20,121,000
Water melon	48,802	\$ 14,640,600
Other Fruits	93	\$ 72,060
Total	119,181	\$ 38,885,060

The level of fruit production varies geographically on the district level. However, melons, watermelons, and grapes are grown in all 11 districts of Jowzjan. Sheberghan produced the highest amounts of melons and watermelons (52 percent) as well as grapes and almond (41 percent) in 2008. Sheberghan, Khamab and Khoja Doko districts produced all 8 major types of fruits in Jowzjan province. The figures presented in the below table are in kg.

	Grape	Apple	Mulberries	Almond	Apricot	Melon	W.Melon	Other Fruit
Darzab	20,000	-	-	15,000	-	3,600,000	4,200,000	6,000
Aqcha	105,000	9,600	-	11,000	64,000	10,925,000	9,400,000	39,000
Khanaqa	20,000	-	52,000	4,000	15,000	300,000	160,000	-
Mangajik	36,000	-	42,000	8,000	42,000	1,570,000	1,632,000	-
Faiz Abad	111,700	-	34,200	72,000	25,000	7,840,000	4,050,000	-
Khoja Doko	105,000	10,000	28,000	6,000	16,000	3,000,000	3,040,000	-
Murdian	102,000	-	26,000	10,000	52,000	1,450,000	150,000	-
Khamab	100,000	10,000	12,000	9,000	500,000	130,000	130,000	-
Qarqeен	90,000	20,000	-	8,000	200,000	130,000	140,000	48,400
Sheberghan	513,820	28,500	244,000	107,500	310,000	35,925,000	23,500,000	-
Quash Tipa	21,000	-	-	-	-	2,200,000	2,400,000	-
Total	1,224,520	78,100	438,200	250,500	1,224,000	67,070,000	48,802,000	93,400

Vegetables

Vegetable	Tons	Value USD \$
Onion	235	\$ 70,485
Tomato	578	\$ 288,800
Pepper	20	\$ 20,000
Okra	307	\$ 122,800
Cucumber	45	\$ 9,000
Spinach	551	\$ 220,560
Squash	118	\$ 23,600
Other Vegetables	549	\$ 400,846
Total	2,403	\$ 1,156,091

Vegetable production surveyed in Jowzjan province during 2008 was estimated at 2,403 MT, with a value of over \$1.1 million. Jowzjan farmers cultivated more than 10 different types of vegetables. Tomato and spinach yielded the highest volumes and generated \$4,000 in revenue. In general there was little difference among the districts in terms of vegetable production and compared to other provinces, the 2008 harvest was very low in Jowzjan.

Darzab and Qush Tipa districts did not produce any reportable amount of vegetables in 2008. Spinach, pepper and okra were grown in 8 of the 11 districts of Jowzjan. The figures presented in the table below are in kg.

	Onion	Tomato	Pepper	Okra	Cucumber	Spinach	Squash	Other Veg
Darzab	-	-	-	-	-	-	-	-
Aqcha	30,000	33,000	4,500	90,000	12,000	233,000	36,000	8,500
Khanaqa	-	-	-	-	-	220,000	-	-
Mangajik	-	-	800	36,000	-	20,000	-	-
Faiz Abad	20,000	50,000	3,000	40,000	12,000	20,000	44,000	30,000
Khoja Doko	21,000	4,600	1,200	30,000	-	15,000	20,000	10,000
Murdian	10,000	-	1,500	40,000	-	-	-	2,000
Khamab	18,000	20,000	2,000	26,000	11,000	16,000	-	1,200
Qarqeен	36,000	20,000	2,000	45,000	10,000	2,400	18,000	-
Sheberghan	99,950	450,000	5,000	-	-	25,000	-	497,500
Quash Tipa	-	-	-	-	-	-	-	-
Total	234,950	577,600	20,000	307,000	45,000	551,400	118,000	549,200

Fodder & Industrial Crops

Fodder and Industrial crops surveyed in Jowzjan in 2008 were estimated at just over 4,000 MT (market value of \$3.6 million). Compared to previous years, this was the lowest level of production, which may be due to the low precipitation experienced in Jowzjan in 2008.

Fodder & Indus	Tons	Value USD \$
Alfalfa	703	\$ 281,000
Clover	3	\$ 1,000
Cotton	1,555	\$ 1,088,570
Flax	681	\$ 613,170
Sesame	830	\$ 1,494,000
Mustard	119	\$ 52,360
Sunflower	4	\$ 3,080
Other Industrial Crop	158	\$ 94,860
Total	4,053	\$ 3,628,040

Important industrial crops in Jowzjan province are cotton, sesame and mustard. Flax was the only source of fodder that was planted in all districts of Jowzjan. Opportunities exist in this province to grow others crops but the main obstacle is lack of water. The figures presented in the table below are in kg.

	Alfalfa	Clover	Cotton	Flax	Sesame	Mustard	Sunflower	Other Ind
Darzab	-	-	-	8,000	19,500	-	-	-
Aqcha	96,000	2,500	114,000	90,000	185,500	3,500	1,000	-
Khanaqa	31,500	-	5,500	30,000	-	70,000	-	-
Mangajik	16,000	-	18,000	16,000	-	20,000	-	600
Faiz Abad	120,000	-	71,000	105,000	200,000	2,000	600	-
Khoja Doko	330,000	-	56,000	40,000	45,000	5,000	500	150,000
Murdian	29,000	-	26,000	17,500	20,000	2,500	500	-
Khamab	28,000	-	113,600	2,000	13,500	-	-	7,500
Qarqeem	52,000	-	150,000	22,500	20,000	-	-	-
Sheberghan	-	-	1,001,000	342,500	310,000	16,000	1,250	-
Quash Tipa	-	-	-	7,800	16,500	-	-	-
Total in KG	702,500	2,500	1,555,100	681,300	830,000	119,000	3,850	158,100

Livestock

Jawzjon is famous for producing karakul skins and good rugs/ carpets in the north west of Afghanistan. Jowzjan herders raise 10 types of household livestock, which total 4 million, not including 339,000 chickens, ducks and turkeys

S.#	Province	District	Total livestock	Poultry
1	Jowzjan	Aqcha	395,018	35,367
2		Darzab	352,306	27,832
3		Faizabad	409,890	37,057
4		Khamab	344,369	25,194
5		Khanaqa	249,816	32,573
6		Khoja doko	160,996	33,272
7		Murdian	349,106	33,945
8		Mangajik	344,522	34,875
9		Qarqeен	787,136	19,521
10		Qushtepa	401,931	20,124
11		Sheberghan	298,810	39,233
Total			4,093,900	338,993

. Faizabad, Qarqeен and Qushtepa districts are home to the highest number of livestock (39 percent) and Sheberghan, Faizabad and Aqcha districts raise 32.9 percent of the province's poultry. The remaining livestock, including poultry are evenly distributed throughout the other districts of Jowzjan (See annex –V).

Animals	Cow	Sheep	Goat	Karakul	Donkey	camel	Horse	Total	Cock	Hens	Turkey	Ducks	Total
heads	117,472	267,072	633,744	2,989,292	65,709	6,575	14,036	4,093,900	36,255	301,868	503	367	338,993
%	2.87	6.52	15.48	73.02	1.61	0.16	0.34	100%	10.69	89.05	0.15	0.11	100%

The number of Karakul sheep (82.27 percent) is a positive sign for Jowzjan province. Jowzjan province is known as the home of Karakul sheep in the country's northern provinces. Karakul is a major Afghan export and Jowzjan continues to be a top provider of this product.

Annex 1

No	Crops	Hectares	Metric Tons	Value USD \$
1	Weath	60,193	109,291	65,574,360
2	Barely	2,371	3,270	1,438,800
3	Maiz	4,800	2,316	1,296,960
4	Mung bean	620	311	186,300
5	Pea	480	193	173,700
6	Red bean	130	52	52,300
7	Onion	315	235	70,485
8	Totmato	124	578	288,800
9	Pepper	20	20	20,000
10	Eggplant	3	5	1,248
11	Okra	180	307	122,800
12	Cucumber	4	45	9,000
13	Spinach	236	551	220,560
14	Garlic	10	2	2,000
15	Red Redish	10	10	4,000
16	White Redish	20	18	8,750
17	Carrot	20	350	140,000
18	Leek	10	20	3,200
19	Squash	12	118	23,600
20	Alfalfa	396	703	281,000
21	Clover	5	3	1,000
22	Cotton	1,220	1,555	1,088,570
23	Flax	1,830	681	613,170
24	Sesame	2,760	830	1,494,000
25	Mustard	60	119	52,360
26	Sunflower	45	4	3,080
27	Melon	7,300	67,070	20,121,000
28	W.melon	3,800	48,802	14,640,600
29	Grape	380	1,225	1,224,520
30	Apple	63	78	62,480
31	Mullberries	450	438	438,200
32	Almond	800	251	1,102,200
33	Apricot	550	1,224	1,224,000
34	Peach	5	40	24,000
35	Other grain	135	72	31,680
36	Other Veg	57	145	241,648
37	Other Fruit	56	53	48,060
38	Other Ind	310	158	94,860
Total		89,780	241,143	112,423,291

ANNEX 2

Ranking of Jowzjan Province districts by tons surveyed annually

S. #	District	Tons	Hectar es	Value USD \$	% total
1	Darzab	12,929	6,276	5,474,040	5.36
2	Aqchah	30,203	10,325	\$ 12,193,300	12.53
3	Khanaqah	2,606	1,821	\$ 1,415,250	1.08
4	Mingajick	10,990	6,456	\$ 5,634,260	4.56
5	Faiz Abad	20,624	7,658	\$ 9,287,460	8.55
6	Khowja Doko	13,271	7,875	\$ 6,163,760	5.50
7	Mardian	7,702	5,033	\$ 4,199,830	3.19
8	Kahmab	2,557	1,754	\$ 1,730,036	1.06
9	Qarqeен	2,946	2,226	\$ 1,826,590	1.22
10	Sheberghan	126,826	33,466	\$ 59,640,985	52.59
11	Qush Tipa	10,487	6,890	\$ 4,857,780	4.35
<i>Total</i>		241,141	89,780	\$ 112,423,291	100.00

Annex 3 Harvest seasons for Jowzjan

Agricultural crops surveyed

2008

Crops	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tons
Weath													109,291
Barely													3,270
Maiz													2,316
Mung bean													311
Pea													193
Red bean													52
Onion													235
Totmato													578
Pepper													20
Eggplant													5
Okra													307
Cucumber													45
Spinach													551
Garlic													2
Red Redish													10
White Redish													18
Carrot													350
Leek													20
Squash													118
Alfalfa													703
Clover													3
Cotton													1,555
Flax													681
Sesame													830
Mustard													119
Sunflower													4
Melon													67,070
W.melon													48,802
Grape													1,225
Apple													78
Mullberries													438
Almond													251
Apricot													1,224
Peach													40
Other grain													72
Other Veg													145
Other Fruit													53
Other Ind													158

Annex 4

District Profile Summary for (Sheberghan) Jowzjan

2008

DISTRICT PROFILE:		Sheberghan	
1	DEMOGRAPHICS	7	Water
Region:	Northern	Rain fed	
Province:	Jawezjan	Kariz	
District:	Sheberghan	Canals	45%
Villages:	107	Other irrigated	4%
Households:	28,780	Bored wells, #	1
Estimated population:	164,751	Access/irrigated water	100%
2	Land	8	Infrastructure
Sharecroppers, %	5%	Access/drinking water	8%
Arable land, jeribs	285,000	Schools	53
Arable land, hectares (/5)	57,000	Electricity costs, Afs/KWH	12
Grazing land, jeribs	0	Cell phone access	yes
Geographic area, Km2	1910.567	Health clinic, #	1
Landowner, %	60	VFUs, #	1
Irrigated land area, hectares	57,000	9	Livelihood
Rainfed land in use,hectars	0	Agro-horticulture sector, %	61
3	Primary Crops	Livestock sub-sector, %	16
Maize, hectares	2,000	Bussiness and Trade %	12
Fall wheat, hectares	28,118	Government and NGO %	5
Barley, hectares	220	Daily Labor %	6
Mung bean, hectares	320	10	Small Enterprises
Pea, hectares	240	General shops, #	1100
Onion, hectares	190	Food service,#	90
Melon+water melon,hec	4400	Flour mills,#	100
Other industrial crops, hec	2,750	Shoe repair,#	70
Other vegetables,hectares	220	Blacksmith,#	40
Other fruits,hectares	1208	Oil extraction,#	23
4	Livestock	Butcher shops, #	
Livestock owners, %	15	Carpet workshops#	90
Dairy cows, #	10768	11	Agricultural Facilities
Beef cattle & Draught oxen, #	423	Artificial Insimilation	
Sheep & Goats+Qaraqul,#	585,910	Rentable Ag Machinary	yes
Donkey, #	4953	Improved wheat seed	yes
Horses, #	1,164	Fruit Nurseries, #	yes
Checkens & Turkey, #	39,233	Credit facility	yes
Camels, #	690	Poultry farm, #	yes
Kuchi, (families),#	550	Agrochemicals,	yes
Kuchi sheep, #	205000	Cool storage, #	
Kuchi goats, #	5,500	Green houses, #	
Camels, #	450	12	Household (HH) Indices
Kuchi other, #	6,400	Arable land/HH, jeribs	9.902
5	Transportation	Grazing land/HH, jeribs	0
Distance to center, km	30	Irrigated land/HH, jeribs	9.902
Time to center, minutes	60	Rainfed land/HH, jeribs	0
Cost to center, Afs	45	Total livestock/HH, #	0.625
Truck cost to center, Afs	4Af/7kg	Sheep&goats/HH, #	20.358
District roads	Paved	Poultry/HH, #	1.363
Provincial roads	Unpaved	13	Checks
Accessibility		Household/village	268.972
6	Markets	Population/ HH	5.724
Provincial	yes	School/ village	0.495
District, General, day	Mon & Thus	No. of Bored wells/ village	0.009
District, livestock, day	Mon & Thus	No. of Enterprize/village	14.14
Traders/assemblers	yes		

Annex 5

Number of Household Animals and Poultry in Jowzjan Province

2008

S. #	Province	Districts	Livestock statistics										Poultry					
			Oxen	Cow	Sheep	Karakol	Goats	Horse	Donkey	Camel	Mule	Total	Kock	Hens	Checks	Duck	Turkey	Total
1	Jawzjon	Aqcha	504	12,841	35,801	327,148	9,904	1,454	6,332	1,034	-	395,018	4,102	30,984	-	211	70	35,367
2		Darzab	482	12,276	29,419	292,104	7,597	1,762	7,424	1,238	4	352,306	1,862	25,956	-	-	14	27,832
3		Faizabad	522	13,310	14,328	364,523	9,570	1,210	5,974	453	-	409,890	4,411	32,470	-	83	93	37,057
4		Khamiab	561	1,433	14,164	273,449	47,898	1,347	5,444	71	2	344,369	2,213	22,971	-	10	-	25,194
5		Khanqa	420	10,700	21,725	197,328	12,204	873	6,294	272	-	249,816	2,841	29,724	-	-	8	32,573
6		Khojadoko	448	1,147	17,256	125,121	9,199	1,221	6,312	292	-	160,996	3,913	29,255	-	-	104	33,272
7		Murdian	469	11,943	26,624	290,587	11,677	1,213	5,811	782	-	349,106	3,891	30,023	-	-	31	33,945
8		Mingajik	424	10,812	30,545	283,863	11,908	1,030	5,363	577	-	344,522	4,512	30,351	-	-	12	34,875
9		Qurqeен	530	13,500	18,173	253,099	495,098	1,242	5,428	61	5	787,136	1,240	18,198	-	41	42	19,521
10		Qushtepa	527	13,432	35,041	334,160	9,783	1,520	6,374	1,094	-	401,931	3,124	16,991	-	-	9	20,124

Annex 6

Province: Jowzjan Arable land survey cultivated, forest and pasture land in Hectare

2008

S.#	Province	District	Village	Rainfed Land	Irrigated Land	Total Land	Orchards &viens	Vegetable and Furrows	Cereal Crops	Forage crops	Forest land	Pasture land	Non-arable land	Mountains	Total Land area	
1	Jawzjon	Shaberghan	107	-	57,000	57,000	230	11,390	142	80	-	-	-	-	57,000	
2		Aqcha	29	-	9,199	9,199	178	9,025	563	-	-	-	-	-	9,199	
3		Khaniqa	26	-	15,936	15,936	80	5,950	304	8	-	-	-	-	15,936	
4		Faizabad	40	-	31,451	31,451	120	9,010	451	8	-	-	-	-	31,451	
5		Murdian	30	-	26,430	26,430	120	5,290	222	8	-	-	-	-	26,430	
6		Mingajik	32	-	28,720	28,720	120	5,950	303	8	-	-	-	-	28,720	
7		Khojadoko	17	-	15,050	15,050	90	8,440	140	-	-	-	-	-	15,050	
8		Qurqeен	4	-	1,356	1,356	80	890	342	-	-	-	-	-	1,356	
9		Khamiaba	5	-	1,482	1,482	122	765	221	-	-	-	-	-	1,482	
10		Darzab	59	20,000	373	20,373	90	5,250	-	10,000	-	-	-	-	20,373	
11		Qushtepa	42	20,000	-	20,000	-	4,460	-	50	-	-	-	-	20,000	
Total				391	40,000	185,917	225,917	1,230	66,420	2,715	155,965	-	-	-	-	225,917

Annex No. 7:

Crop Calendar

NAIS/ASAP

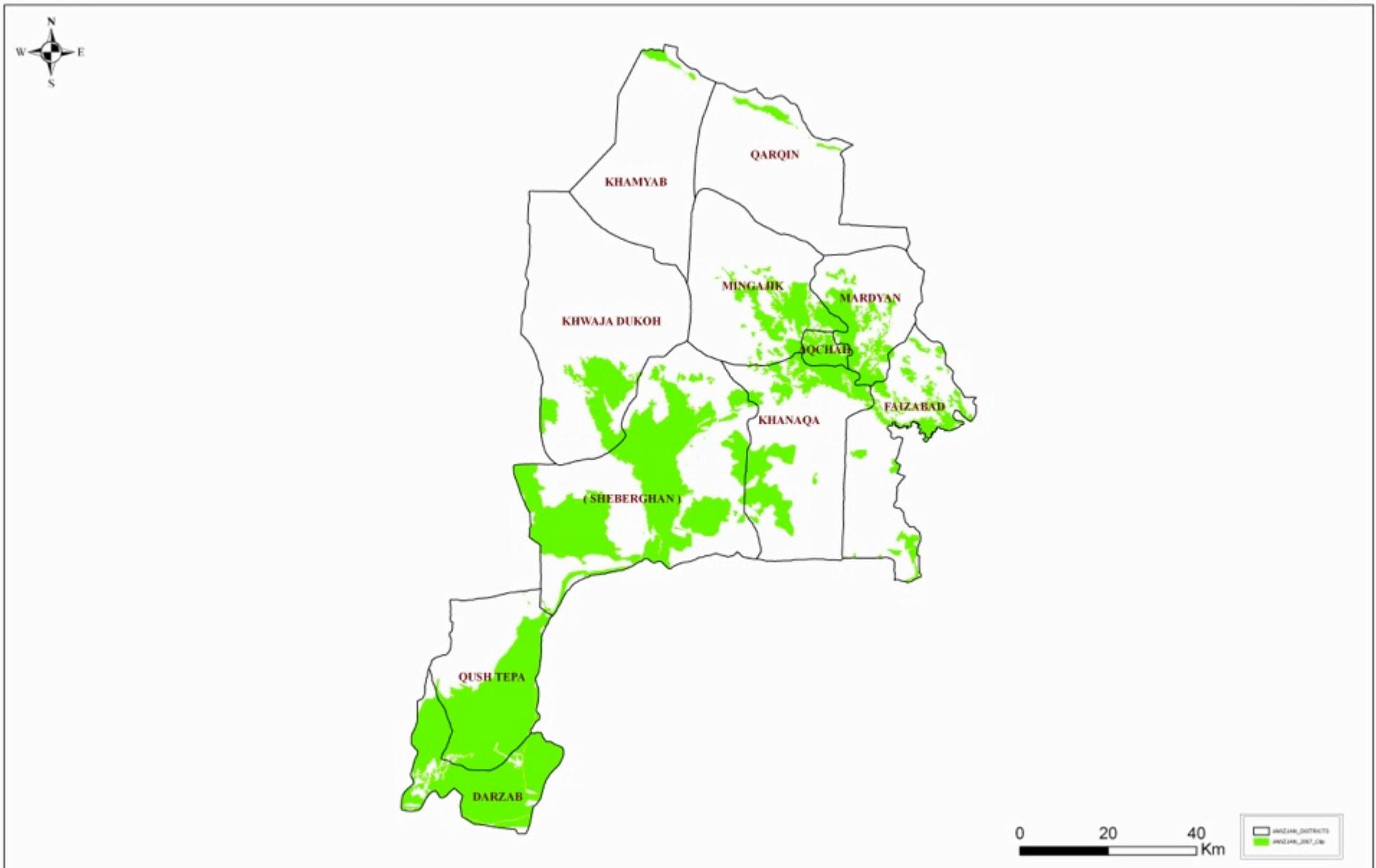
Planting

Harvisting

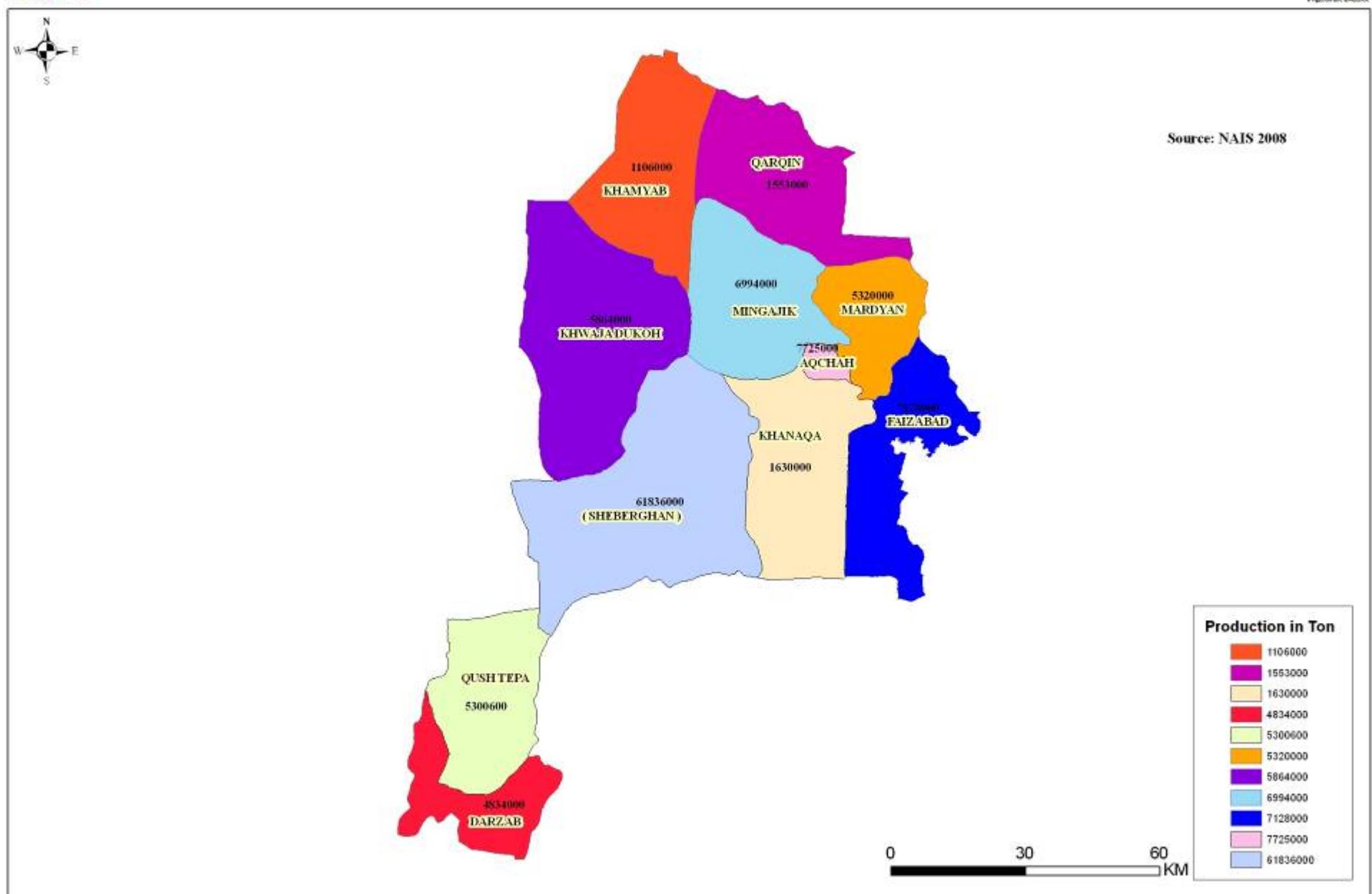
JAWZJAN PROVINCE DISTRICTS MAP



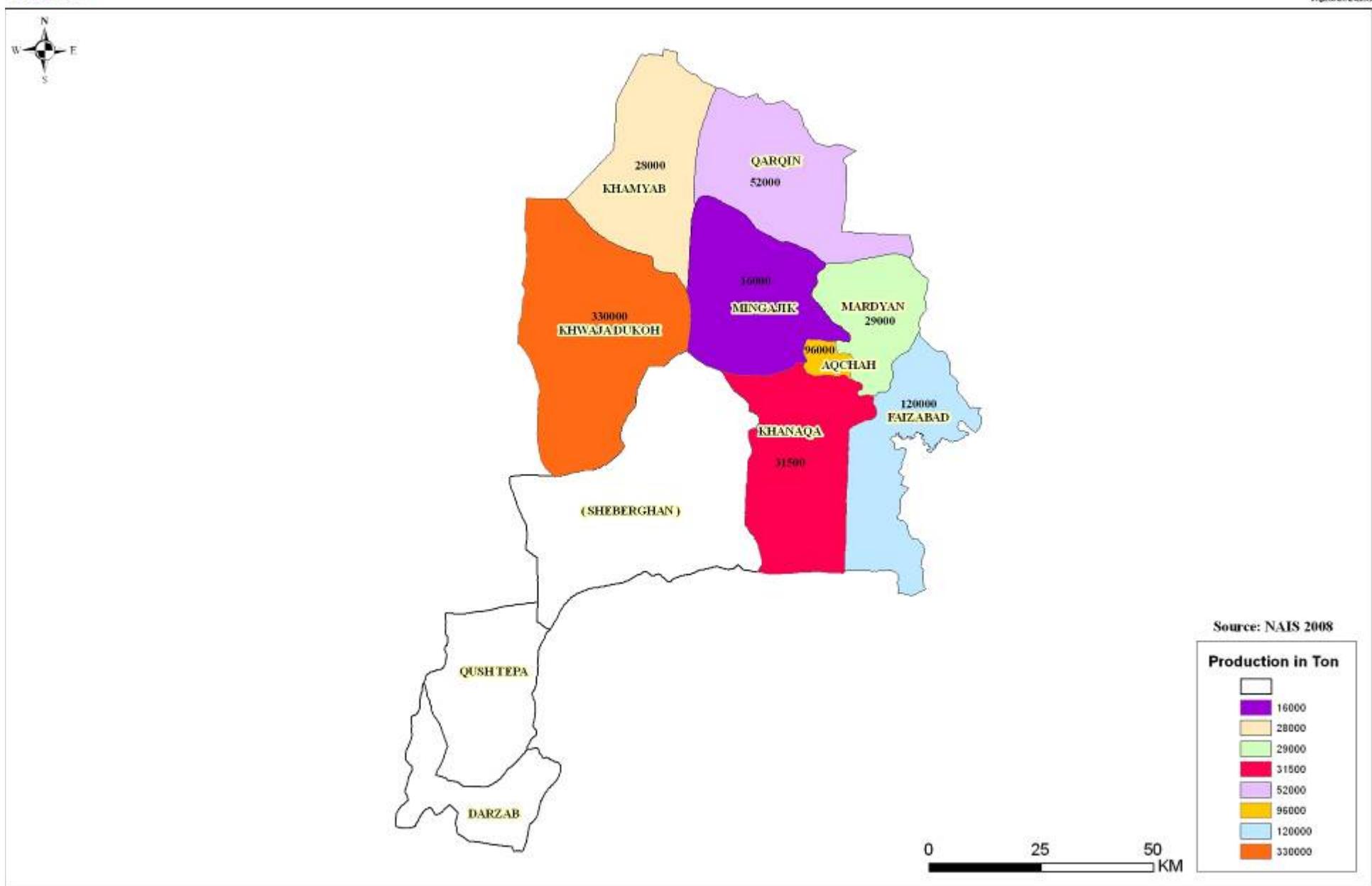
JAWZJAN PROVINCE AGRICULTURE MAP



Jawzjan Province (Wheat Production)



Jawzjan Province (Alfalfa Production)





Jawzjan Province Onion Spring Crop (Calendar) Map



Source: NAIS 2008

Planting Date



Jawzjan Province Onion Crop (Calendar) Map



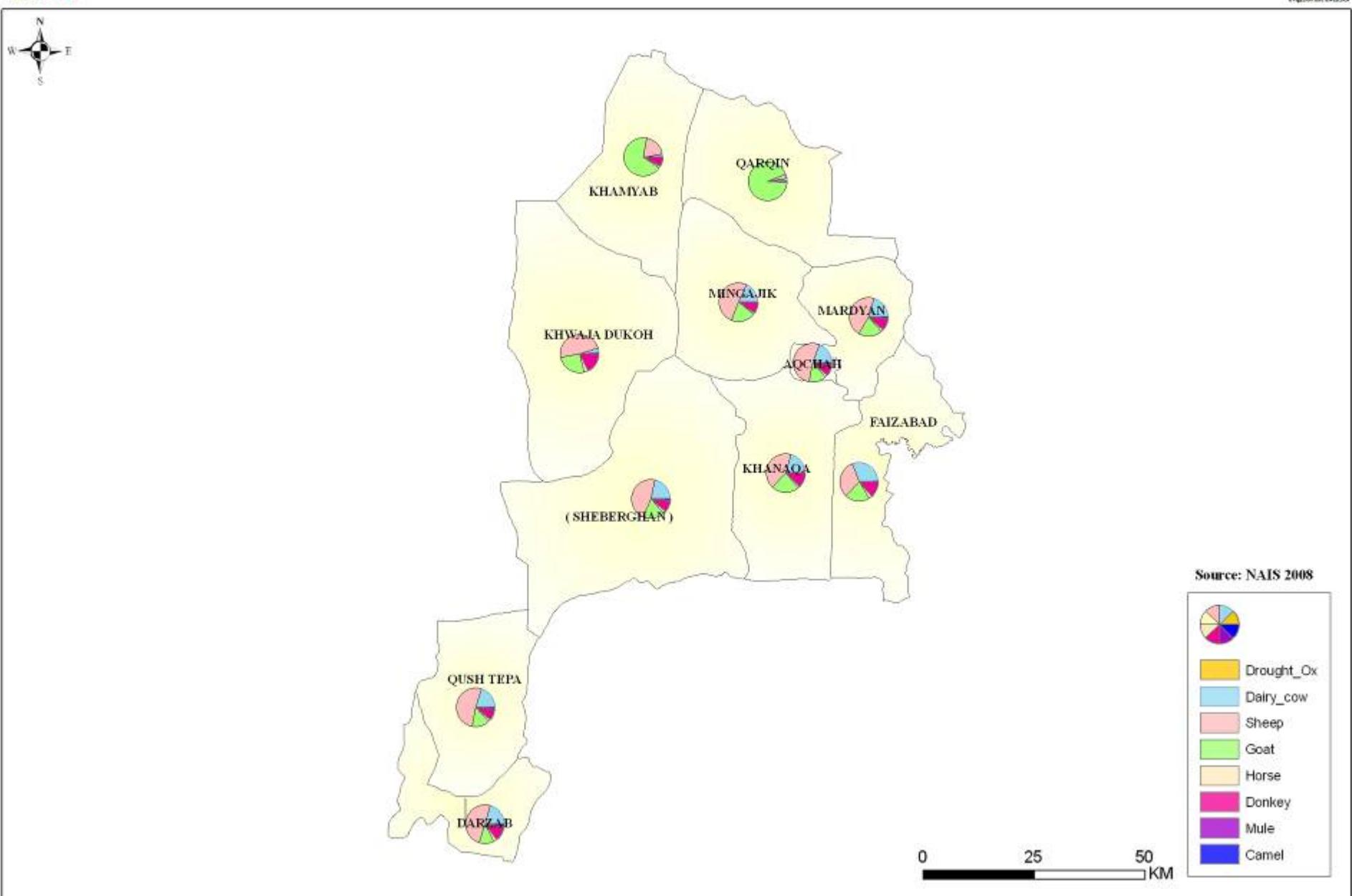
Source: NAIS 2008

Harvesting Date

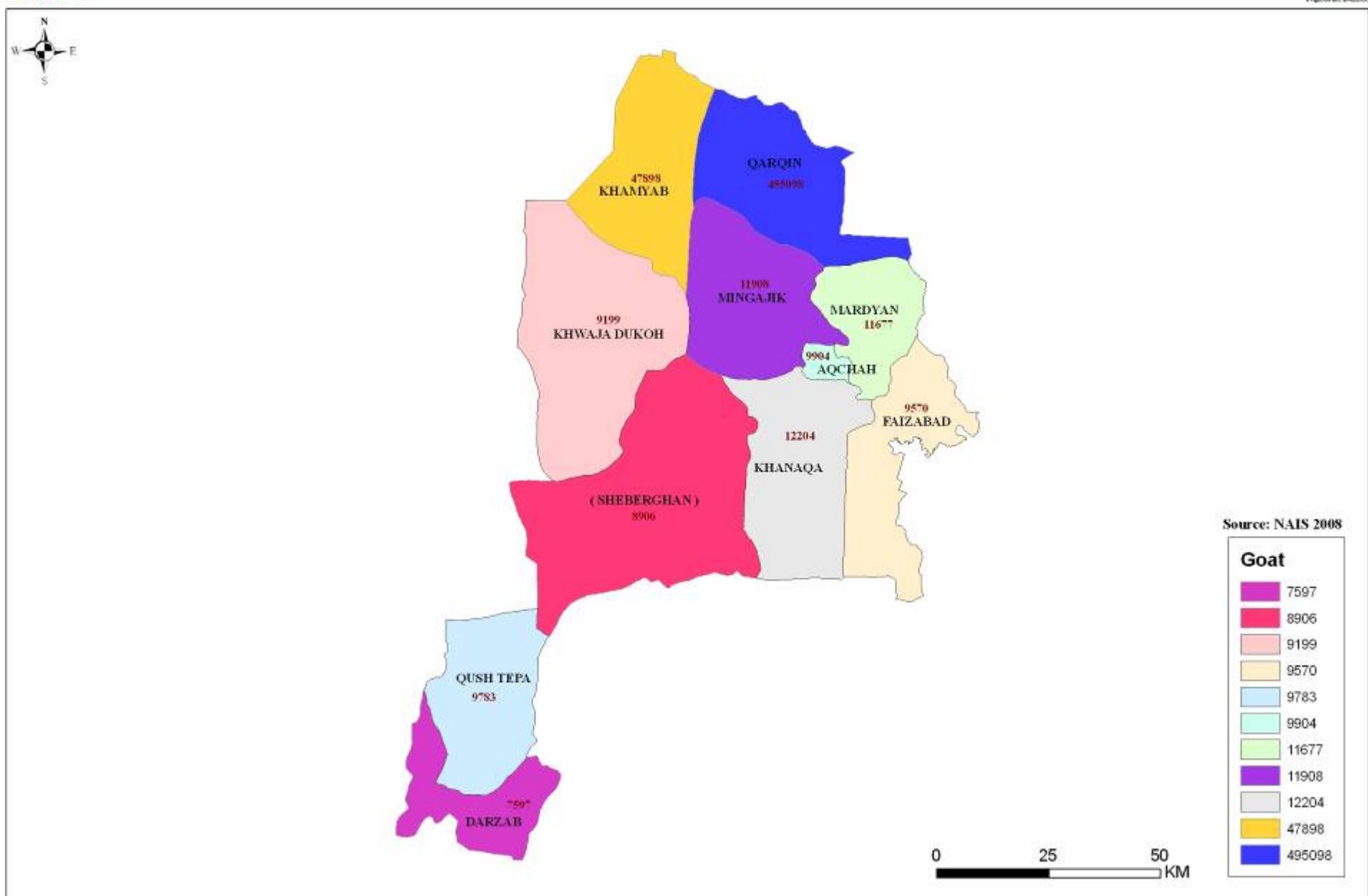
 23 Aug - 23 Sep

0 25 50 KM

Jawzjan Province Livestock



Jawzjan Province Livestock (Goat)



Jawzjan Province Livestock

