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Parwan Province Agricultural Profile 2008



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

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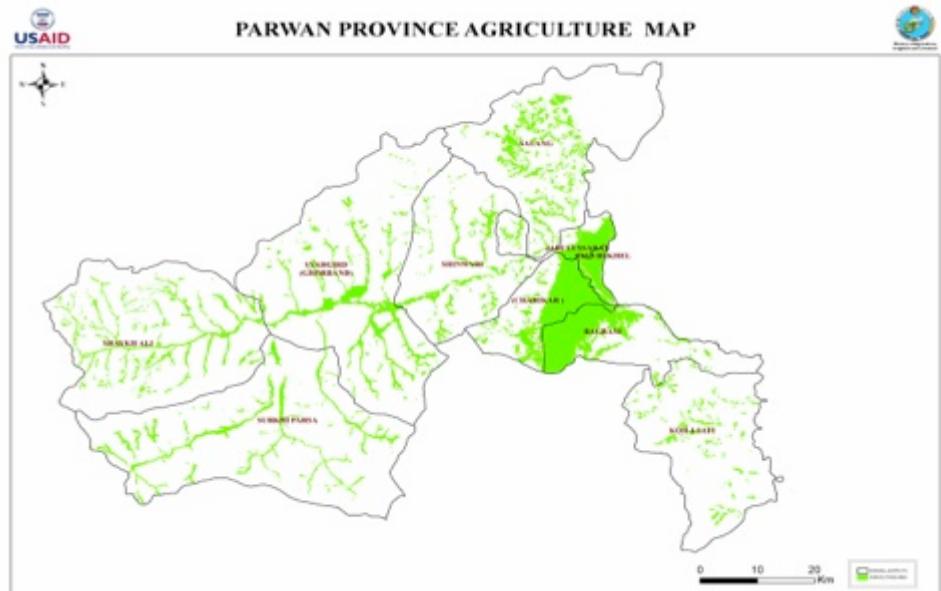
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Agriculture

Profile and Data

In Parwan Province



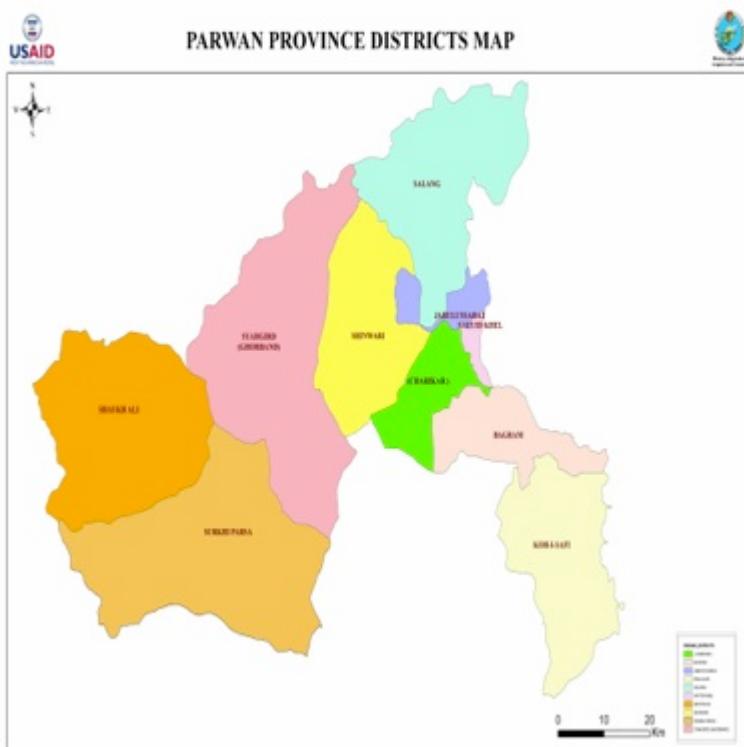
Parwan in Brief Introduction:

Parwan is located in central Afghanistan between 34.59-35.43 degrees latitude and 68.19-69.62 degrees longitude. Parwan borders the provinces of Baghlan to the north, Kabul and Wardak to the south, Bamyan to the west and Kapisa and Panjshir to the east. The province's 10 districts encompass 5,659.834 square kilometers, which includes 40,678 hectares of agricultural land. Parwan has a total of 760 villages with an estimated population of 633,354 people (2008 census). Parwan is famous for producing cotton, mulberries and vegetables and dried fruit. Herders raise sheep and goats in several districts

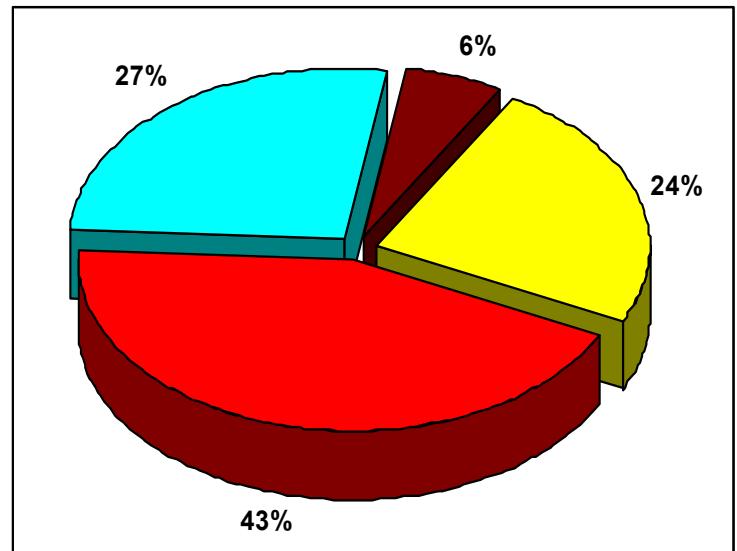
In 2008 farmers in Parwan grew 40 different crops on approximately 57,765 hectares of land (10.2 percent of total area). Fifty-two percent of the Parwan's cultivated land is located in the 7 districts because of the vicinity to the Panjshir River and lower elevations. The other 3 districts are most suitable for raising livestock because of the hilly and mountainous topography in the area.

The districts of Parwan are:

- | | | |
|-------------|----------------|----------------|
| 1) Charikar | 5) Jabal seraj | 9) Surkh parsa |
| 2) Bagram | 6) Kohisafi | 10) Shaikhali |
| 3) Shinwari | 7) Ghorband | |
| 4) Saidkhel | 8) Salang | |



The total 2008 crop production surveyed in Parwan province was 320,361 metric tons MT, mostly focused on fruits (43.6 percent), followed by vegetables (26.6 percent), grains (23.8 percent) and fodder and industrial crops (5.8 percent) of the total production. The total market value of 2008 of agricultural production was estimated at \$193 million with some relevant value added processing.



Of the Parwan's 10 districts, Bagram was the most productive, contributing 24 percent of the 2008 harvest. Charikar district followed with farmers growing 17 percent of total production and Shinwari and Kohisafi tied for the third position (each producing 12 percent of the total agricultural output in 2008).

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 Parwan 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 Parwan and collected by Parwan AgNet officer MrShah Mir Amiri and approved by deputy director of Parwan Provincial Agriculture department Mr. Shahmir Amiri in September 2008.

Grains

Parwan's 2008 annual grain production was surveyed as amounting to approximately 76,334 MT, which had a corresponding market value of \$39 million during that year. Of all the grain, the vast majority (92 percent) consisted of major food staples wheat and corn with value of \$35 million while the remaining 8 percent was other grains worth \$4 million.

Grain	Tons	Value USD \$
Rice	39	\$ 61,152
Wheat	50,140	\$ 28,078,382
Barely	2,721	\$ 1,197,284
Maize	20,610	\$ 7,419,744
Mung Bean	522	\$ 313,240
Red bean	1,503	\$ 1,503,300
Millets	301	\$ 270,743
Other grain	498	\$ 398,400
Grand Total	76,334	\$ 39,242,245

Wheat and maize production is evenly distributed throughout Parwan province. Red bean was the third most planted grain in all districts and amounts to 1,500 MT in Parwan. Bagram district produced the largest volumes of wheat maize and barley (16,000 MT) in 2008. The figures presented in the following table are in kg.

	Rice	Wheat	Barely	Maize	Mung bean	Red bean	Millets	Other grain
Bagram	-	14,568,600	660,800	748,800	56,700	189,000	38,400	-
Ghorband	-	3,048,900	133,800	856,000	1,500	343,000	-	19,200
Jabal Seraj	39,200	75,600	54,600	1,605,800	73,200	193,200	75,950	-
Salang	-	206,618	-	2,074,800	-	9,000	-	-
Sheikh Ali	-	3,738,250	242,000	3,402,000	-	136,000	-	268,800
Shinwari	-	6,807,500	308,000	3,900,000	105,000	12,000	-	160,000
Surkh parsa	-	6,784,000	537,600	3,480,000	110,250	195,600	-	-
Kohi Safi	-	4,421,000	207,900	2,730,000	73,500	269,500	117,000	35,000
Charikar (Center)	-	10,489,500	576,400	1,813,000	101,920	156,000	69,475	15,000
Total	39,200	50,139,968	2,721,100	20,610,400	522,070	1,503,300	300,825	498,000

Fruits

Parwan's 2008 annual fruit production was estimated at 139,803 MT with a value of over \$112 million. Grapes represent 54.5 percent of all fruits grown in the province and generated \$45 million annually. Apricots were the second most grown fruit (16.7 percent of production) resulting in a profit of \$16.3 million. Almonds were another high value fruit, totaling nearly \$28.3 million in revenue.

Fruit	Tons	Value USD\$
Grape	76,240	\$ 45,744,000
Apple	7,461	\$ 4,476,360
Mulberries	2,097	\$ 1,048,500
Almond	5,658	\$ 28,291,625
Apricot	23,366	\$ 16,355,850
Pomegranate	319	\$ 318,710
Peach	1,293	\$ 1,163,970
Walnuts	993	\$ 4,567,524
Melon	6069	\$ 2,427,600
Water melon	10110	\$ 2,022,000
Other Vegetables	6197	\$ 6,057,908
Grand Total	139,803	\$ 112,474,047

As was the case with grain production, fruits are grown in all provincial districts, especially grapes, apples, mulberries, almonds, apricots and walnuts. Bagram produced high volumes of grapes Shaikhali - mulberries, Ghorband - almonds and apricots and Surkhparsa - walnuts in 2008. Figures presented in the following table are in kg.

Vegetables

Vegetable	Tons	Value USD\$
Potato	13,738	\$ 4,121,250
Onion	29,540	\$ 8,862,075
Tomato	11,810	\$ 4,723,860
Eggplant	6,161	\$ 1,478,520
Okra	718	\$ 258,300
Cucumber	12,014	\$ 4,805,600
Spinach	1,420	\$ 766,800
Garlic	1,336	\$ 1,593,740
Round Red Reddish	973	\$ 389,100
Carrot	218	\$ 65,472
Squash	1,425	\$ 997,675
Turnip	2,291	\$ 1,603,700
Other Vegetables	3,814	\$ 2,669,765
Grand Total	85,458	\$ 32,335,857

Vegetable production surveyed in Parwan province during 2008 was estimated at 85,458 MT, with a value of almost \$32 million. Parwan farmers grew more than 15 different types of vegetables but only 4 reached over 10,000 MT. Onions, potatoes and tomatoes represented 55.7 percent of the province's total vegetable harvest.

Potatoes, onions and tomatoes, garlic and eggplant are produced in all districts of Parwan and equated to 73.7 percent of all vegetable produced in the province in 2008. Farmers in Surkh Parsa grew 28.5 percent of all potatoes and Charikar district produced almost the same amount of onions (27.5 percent), in addition to 50 percent of the province's eggplant and 30 percent of tomatoes in 2008. Figures presented in the following table are in kg.

	Potato	Onion	Tomato	Eggplant	Okra	Cucumber	Spinach	Garlic	R.R.Riddish	Carrot	Squash	Turnip	Other Veg
Bagram	2,310,000	2,415,000	1,690,500	504,000	52,500	168,000	56,000	306,250	42,000	-	126,000	-	225,000
Ghorband	980,000	480,000	504,000	7,000	-	16,000	14,000	8,000	5,000	6,000	-	12,000	78,000
Jabal Seraj	945,000	4,427,500	1,680,000	472,500	-	560,000	90,000	63,000	840,000	-	166,250	-	480,000
Salang	98,000	40,250	84,000	-	-	-	-	-	-	-	-	-	-
Sheikh Ali	2,822,000	612,500	127,400	147,000	105,000	70,000	-	21,700	-	-	420,000	189,000	-
Shinwari	1,700,000	10,400,000	1,000,000	500,000	52,500	-	-	360,000	-	-	147,000	-	286,200
Surkh parsa	3,990,000	1,050,000	105,000	260,000	-	-	-	350,000	-	-	248,000	-	283,500
Kohi Safi	280,000	1,715,000	1,890,000	700,000	87,500	-	-	70,000	-	210,000	90,000	200,000	1,125,000
Charikar (Center)	612,500	8,400,000	4,728,750	3,570,000	420,000	11,200,000	1,260,000	157,500	85,750	2,240	228,000	1,890,000	1,336,250
Total	13,737,500	29,540,250	11,809,650	6,160,500	717,500	12,014,000	1,420,000	1,336,450	972,750	218,240	1,425,250	2,291,000	3,813,950

Fodder & Industrial Crops

Cotton is an important industrial crop grown in Parwan and is used almost exclusively for local benefit. Cotton plantations in Parwan are irrigated by the Panjshir River. Alfalfa and clover are both good cash crops and sources of fodder for livestock. An equivalent of \$7 million worth of animal fodder was generated in 2008.

Fodder & Ind	Tons	Value U.S.
Alfalfa	4,410	\$
Clover	13,415	\$
Cotton	625	\$
Sesame	235	\$
Sunflower	80	\$
Grand Total	18,765	\$ 9,125,000

Alfalfa and clover are grown in 7 of Parwan's 10 districts and are irrigated by the Panjshir River. Sesame and industrial crops were grown in very small amounts in the province and only for household consumption in 2008. Figures presented in the following table are in kg.

	Alfalfa	Clover	Cotton	Sesame	Sunflower
Bagram	-	-	143,500	-	-
Ghorband	32,500	60,000	-	2,100	-
Jabal Seraj	675,000	1,050,000	86,450	-	-
Salang	-	-	-	-	-
Sheikh Ali	650,000	3,000,000	-	-	-
Shinwari	252,000	20,000	40,000	112,500	-
Surkh parsa	700,000	6,375,000	-	120,000	-
Kohi Safi	1,200,000	1,740,000	175,000	-	-
Charikar (Center)	900,000	1,170,000	180,000	-	-
Total	4,409,500	13,415,000	624,950	234,600	

Livestock

Statistic survey conducted in Parwan in 2008 found that farmers grow 43 types of different agricultural crops and raise 10 types of household livestock and poultry (See annex –V).

Province	District	Total livestock	Total Poultry
Parwan	Bagram	29,374	63,481
	Jabal seraj	10,266	29,025
	Salang	27,022	6,200
	Shinwari	301,460	20,705
	Shaikhali	28,377	20,850
	Ghorband	54,097	22,459
	Saidkhel	6,677	-
	Kohisafi	28,097	37,538
	Charikar	17,920	14,495

Household livestock maintained in Parwan number 522,248, not including 248,283 chickens, ducks and turkeys. Herders in Shinwari district raised 58 percent of livestock and the remaining 42 percent are found in all the Parwan's other 9 districts. Sheep and goats are the dominant household livestock (42.28 percent and 40.80 percent respectively).

Animals	Cow	Sheep	Goat	Donkey	camel	Horse	Total	Chicken	Turkey	Ducks	Total
Heads	72,739	220,782	213,099	15,167	100	361	522,248	243,195	1,780	3,308	248,283
Percentage	13.93%	42.28%	40.80%	2.90%	0.02%	0.07%	100%	97.92%	0.72%	1.36%	100%

Cattle in the province are composed of oxen and dairy cows. The number of donkeys could be a good indicator for the development of transportation.

Annex 1

S.#	Crops	Hectares	Metric Tons	Value USD \$
1	Rice	20	39	\$ 61,152
2	Weath	21,917	50,140	\$ 28,078,382
3	Barely	1,311	2,721	\$ 1,197,284
4	Maiz	9,223	20,610	\$ 7,419,744
5	Mung Bean	437	522	\$ 313,240
6	Red bean	1,068	1,503	\$ 1,503,300
7	Millets	150	301	\$ 270,743
8	Potato	766	13,738	\$ 4,121,250
9	Onion	1,165	29,540	\$ 8,862,075
10	Tomato	1,105	11,810	\$ 4,723,860
11	Eggplant	278	6,161	\$ 1,478,520
12	Okra	60	718	\$ 258,300
13	Cucumber	439	12,014	\$ 4,805,600
14	Spinach	42	1,420	\$ 766,800
15	Garlic	177	1,336	\$ 1,593,740
16	Round Red Redis	82	973	\$ 389,100
17	Carrot	91	218	\$ 65,472
18	Squash	36	1,425	\$ 997,675
19	Turnip	87	2,291	\$ 1,603,700
20	Grape	10,755	76,240	\$ 45,744,000
21	Pear	1	1	\$ 1,560
22	Apple	459	7,461	\$ 4,476,360
23	Bukhara plum	95	2,573	\$ 1,543,950
24	Sour plum	20	35	\$ 14,000
25	Mullberries	1,430	2,097	\$ 1,048,500
26	Almond	1,868	5,658	\$ 28,291,625
27	Plum	148	1,506	\$ 1,203,448
28	Apricot	1,757	23,366	\$ 16,355,850
29	Pomegranate	24	319	\$ 318,710
30	Peach	73	1,293	\$ 1,163,970
31	Sour Cherry	18	74	\$ 81,150
32	Walnut	279	993	\$ 4,567,524
33	Melon	319	6,069	\$ 2,427,600
34	W.melon	385	10,110	\$ 2,022,000
35	Alfalfa	108	4,410	\$ 1,763,800
36	Clover	265	13,415	\$ 5,366,000
37	Cotton	410	625	\$ 874,930
38	Sesame	103	235	\$ 844,560
39	Sunflower	10	80	\$ 400,000
40	Other Grains	338	498	\$ 398,400
41	Other Vegetables	209	3,814	\$ 2,669,765
42	Other Fruits	237	2,009	\$ 3,213,800
Total		57,765	320,361	\$ 193,301,439

ANNEX 2

Ranking of Parwan Province districts by tons surveyed annually

S.#	District	Tons	Hectares	Value USD \$	% total tons
1	Bagram	79,361	12,407	45,806,645	24.8%
2	Ghourband	26,851	4,646	33,829,924	8.4%
3	Jabal Saraj	17,731	1,910	7,845,845	5.5%
4	Salang	3,058	1,683	1,461,209	1.0%
5	Shiakh Ali	24,704	5,006	19,408,090	7.7%
6	Sheenwary	41,461	7,554	20,067,410	12.9%
7	Surkhparsa	32,404	6,383	18,084,439	10.1%
8	Kohi Safi	39,638	6,401	21,480,636	12.4%
9	Carikar (Center)	55,150	11,775	25,317,241	17.2%

Annex 3 Harvest seasons for Parwa

Agricultural crops surveyed

Crops	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rice												
Weath												
Barely												
Maiz												
Mung Bean												
Red bean												
Millets												
Potato												
Onion												
Tomato												
Eggplant												
Okra												
Cucumber												
Spinach												
Garlic												
Round Red Redish												
Carrot												
Squash												
Turnip												
Grape												
Pear												
Apple												
Bukhara plum												
Sour plum												
Mullberries												
Almond												
Plum												
Apricot												
Pomegranate												
Peach												
Sour Cherry												
Walnut												
Melon												
W.melon												
Alfalfa												
Clover												
Cotton												
Sesame												
Sunflow er												
Other Grains												
Other Vegetables												
Other Fruits												

Annex 4

DISTRICT PROFILE:		Charikar	
1	DEMOGRAPHICS	7	Water
Region:	Northern	Rain fed	
Province:	Parwan	Kariz	
District:	Charikar	Canals	95%
Villages:	38	Springs	5%
Households:	20,477	Bored wells, #	
Estimated population:	163,817	Access/irrigated water	85%
2	Land	8	Infrastructure
Sharecroppers, %	10%	Access/drinking water	40%
Arable land, jeribs	77,835	Schools	21
Arable land, hectares (/5)	15,567	Electricity costs, Afs/KWH	7 Afg
Grazing land, jeribs	0	Cell phone access	yes
Geographic area, Km2	240.475	Health clinic, #	yes
Landowner, %	40	VFUs, #	yes
Irrigated land area, hectares	15,567		
Rainfed land in use,hectars			
3	Primary Crops	9	Livelihood
Spring Wheat, hectares	120	Agro-horticulture sector, %	60
Fall wheat, hectares	4,130	Livestock sub-sector, %	10
Barley, hectares	290	Bussiness and Trade %	8
Maize, hectares	980	Government and NGO %	14
Graps, hectares	3900	Daily Labor %	8
Tomatoes,hectares	435		
Cotton, hectares	120	10	Small Enterprises
Other grains, hectares	256	General shops, #	
Others,vegetables,hectares	1201	Food service,#	210
Others friuits, hectares	265	Flour mills,#	30
4	Livestock	Shoe repair,#	5
Livestock owners, %	20	Blacksmith,#	5
Dairy cows, #	220	Poultry farm, #	1
Beef cattle & Draught oxen, #	5,000	Butcher shops, #	15
Sheep & Goats, #	11,500	Other Shops	280
Donkey, #	1200		
Horses, #	0		
Checkens & Turkey, #	14,495		
Camels, #	0		
Kuchi, (families),#			
Kuchi sheep, #			
Kuchi goats, #			
Camels, #			
Kuchi other, #			
5	Transportation		
Distance to center, km	7		
Time to center, minutes	10		
Cost to center, Afs	20		
Truck cost to center, Afs	400 , 1000		
District roads	Unproved		
Provincial roads	Unproved		
Accessibility	12 Months		
6	Markets	12	Household (HH) Indices
Provincial	yes	Arable land/HH, jeribs	3.801
District, General, day	all days	Grazing land/HH, jeribs	0
District, livestock, day	all days	Irrigated land/HH, jeribs	3.801
Traders/assemblers	yes	Rainfed land/HH, jeribs	0
		Total livestock/HH, #	0.313
		Sheep&goats/HH, #	0.516
		Poultry/HH, #	0.707
		13	Checks
		Household/village	538.838
		Population/ HH	8
		School/ village	0.552
		No. of Bored wells/ village	0
		No. of Enterprize/village	14.368

Annex 5

Number of Household Animals and Poultry in Parwan Province

2008

S.#	Province	Districts	Livestock statistics								Poultry					
			Oxen	Cow	Sheep	Goats	Horse	Donkey	Camel	Total	Kock	Hens	Checks	Duck	Turkey	Total
1	Parwan	Bagram	-	8,500	16,000	4,000	14	800	60	29,374	7,300	39,500	16,000	340	341	63,481
2		Jabalseraj	1,800	6,300	1,500	230	26	410	-	10,266	6,600	18,000	3,700	520	205	29,025
3		Salang	840	2,056	11,120	12,826	80	100	-	27,022	1,000	2,500	1,500	1,100	100	6,200
4		Shinwari	2,000	14,000	130,000	155,000	-	460	-	301,460	4,500	12,005	4,200	-	-	20,705
5		Shikhal	1,750	5,120	12,100	7,230	65	2,100	12	28,377	13,100	820	6,000	520	410	20,850
6		Ghorband	5,733	5,183	20,922	16,093	56	6,107	3	54,097	850	20,800	400	68	341	22,459
7		Saidkhel	1,401	1,836	1,140	100	-	2,200	-	6,677	-	-	-	-	-	-
8		Kohisafi	1,100	3,500	18,000	4,000	80	1,400	17	28,097	9,000	20,000	8,100	380	58	37,538
9		Charyakar	220	5,000	3,000	8,500	-	1,200	-	17,920	3,700	10,200	500	60	35	14,495
10		Surkhparsa	2,100	4,200	7,000	5,100	40	200	0	10,850	7,620	22,000	2,200	200	200	22,520

Annex 6

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

2008

S.#	Province	District	Village	Rainfed Land	Irrigated Land	Total land	Orchards &vien s	Vegetable and Furrows	Cereal Crops	Forage crops	Forest land	Pasture land	Non-areable land	Mountai ns	Total Land area
1	Parwan	Bagrami	16	2,300	10,360	12,676	4,975	439	7,010	79	-	5,000	4,290	-	21,966
2		Jabalseraj	38	-	2,799	2,837	152	407	2,185	55	-	500	200	-	3,537
3		Salang	105	-	2,193	2,298	528	46	1,619	-	15	49,583	100	-	51,996
4		Shinwari	150	805	7,188	8,143	1,315	530	5,315	28	420	3,000	700	-	12,263
5		Ghorband	244	16	6,418	6,678	3,600	420	2,100	65	140	109	149	320,000	327,076
6		Shikhal	120	76	4,597	4,793	890	390	3,288	50	230	2,300	320	-	7,643
7		Surkhparsa	87	80	5,174	5,341	910	409	3,840	115	180	3,100	260	-	8,881
8		Saidkhel	80	-	4,509	4,589	213	491	3,730	75	-	-	-	-	4,589
9		Kohi Safi	-	-	-	-	-	-	-	-	-	-	-	-	-
10		Charikar	38	-	15,567	15,605	4,165	1,421	7,097	50	-	-	-	-	15,605
Total			878	3,277	58,805	62,960	16,748	4,553	36,184	517	985	63,592	6,019	320,000	453,556

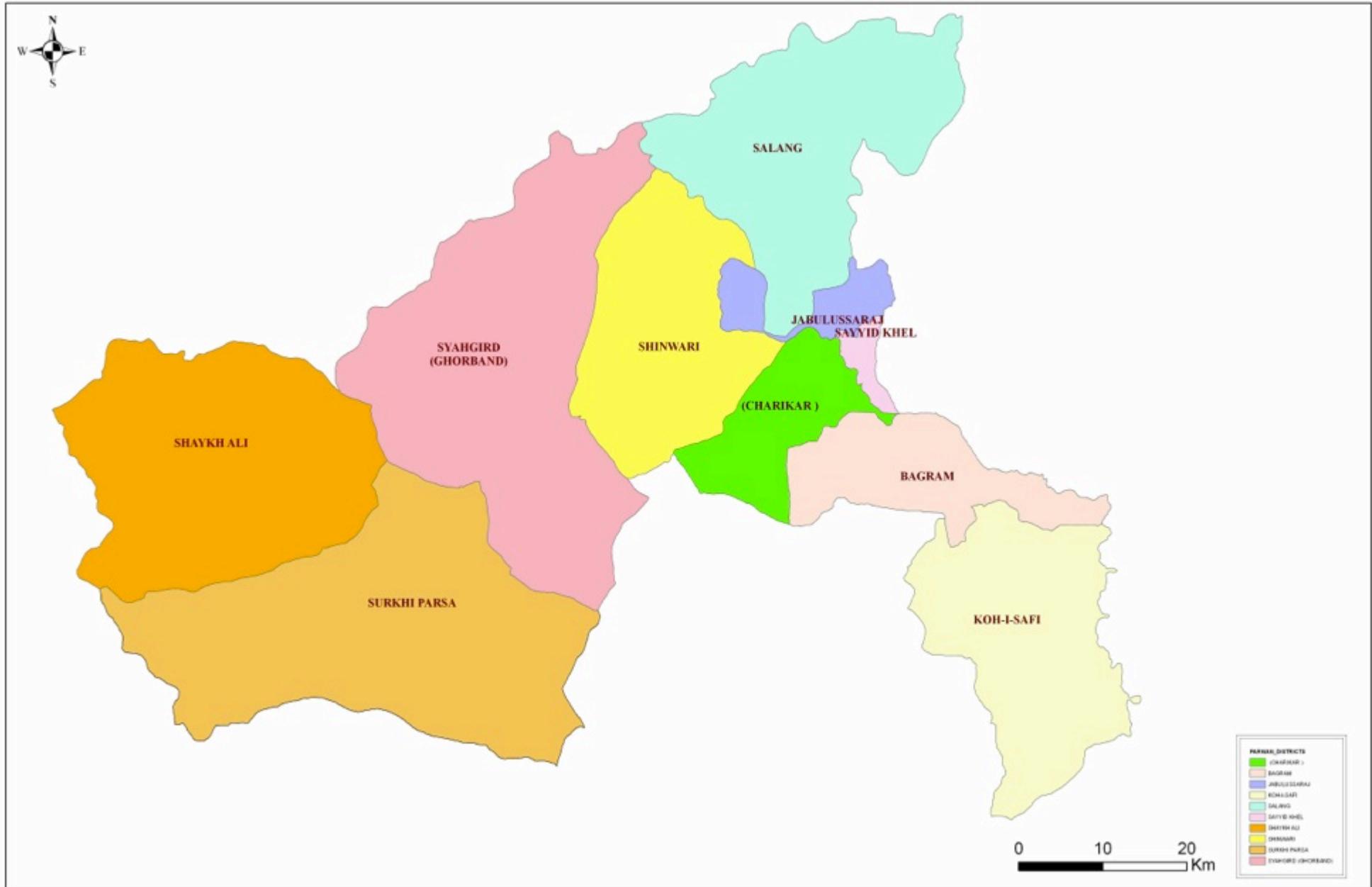
Annex No. 7:
Crop Calendar
NAIS/ASAP

Activities	District	Bagram	Province	Parwan	Date	GPS HQ	Elev.HQ						
Planting=P;Harvest=H;Treat=T	seasons	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Fruit and Nut Crops													
Apple	Spring Fall												
Grape													
Pomegranate													
Apricot													
Peach													
Sour Plum													
Almond													
Walnut													
Pistachio													
Mulberries													
Vegetable													
Tomato													
Potato	Spring Fall												
Water Melon	Spring												
Melon	Summer Fall												
carrot													
Okra													
Eggplant													
Onion													
Cauliflower													
Spinach													
Cash Crop													
Cotton	Spring Summer												
Rice	Fall												
Wheat	Spring Fall												
Corn	Spring Summer												
Mung Bean													
Flax	Spring Fall												
Sesame	Spring Fall												
Cumine													
Sunflower													
Canoll													
Zafaran													
Pea													

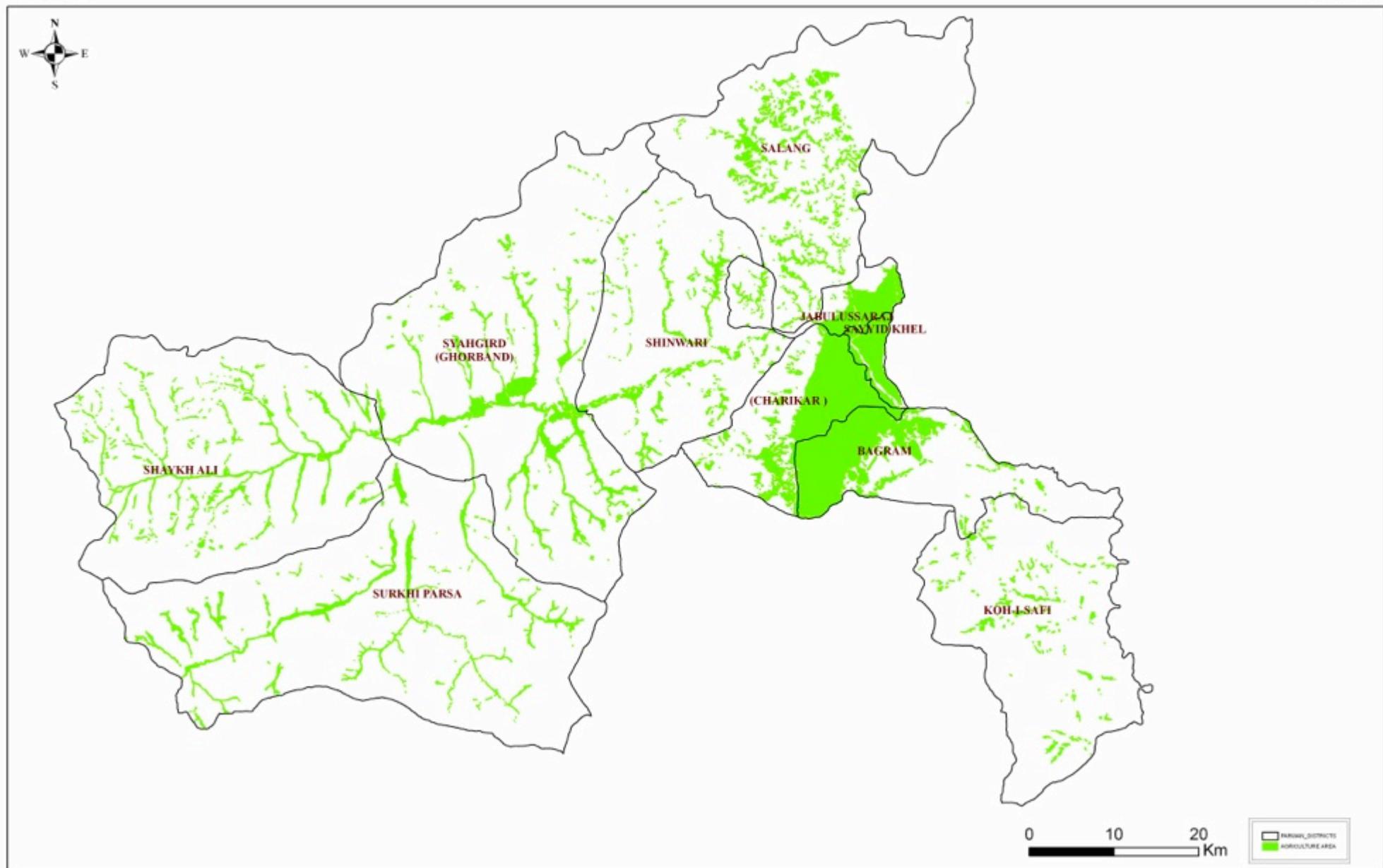
Planting

Harvesting

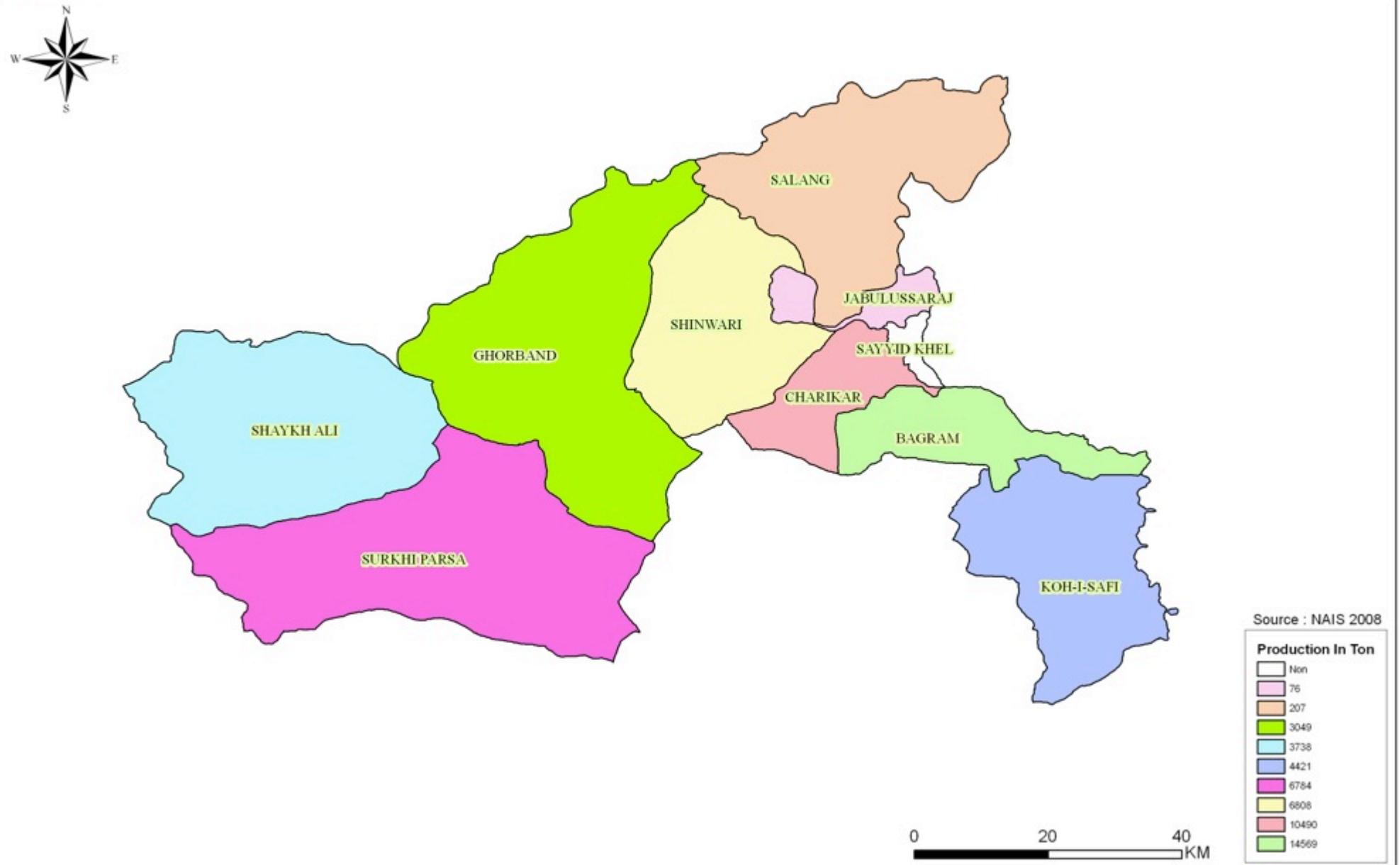
PARWAN PROVINCE DISTRICTS MAP



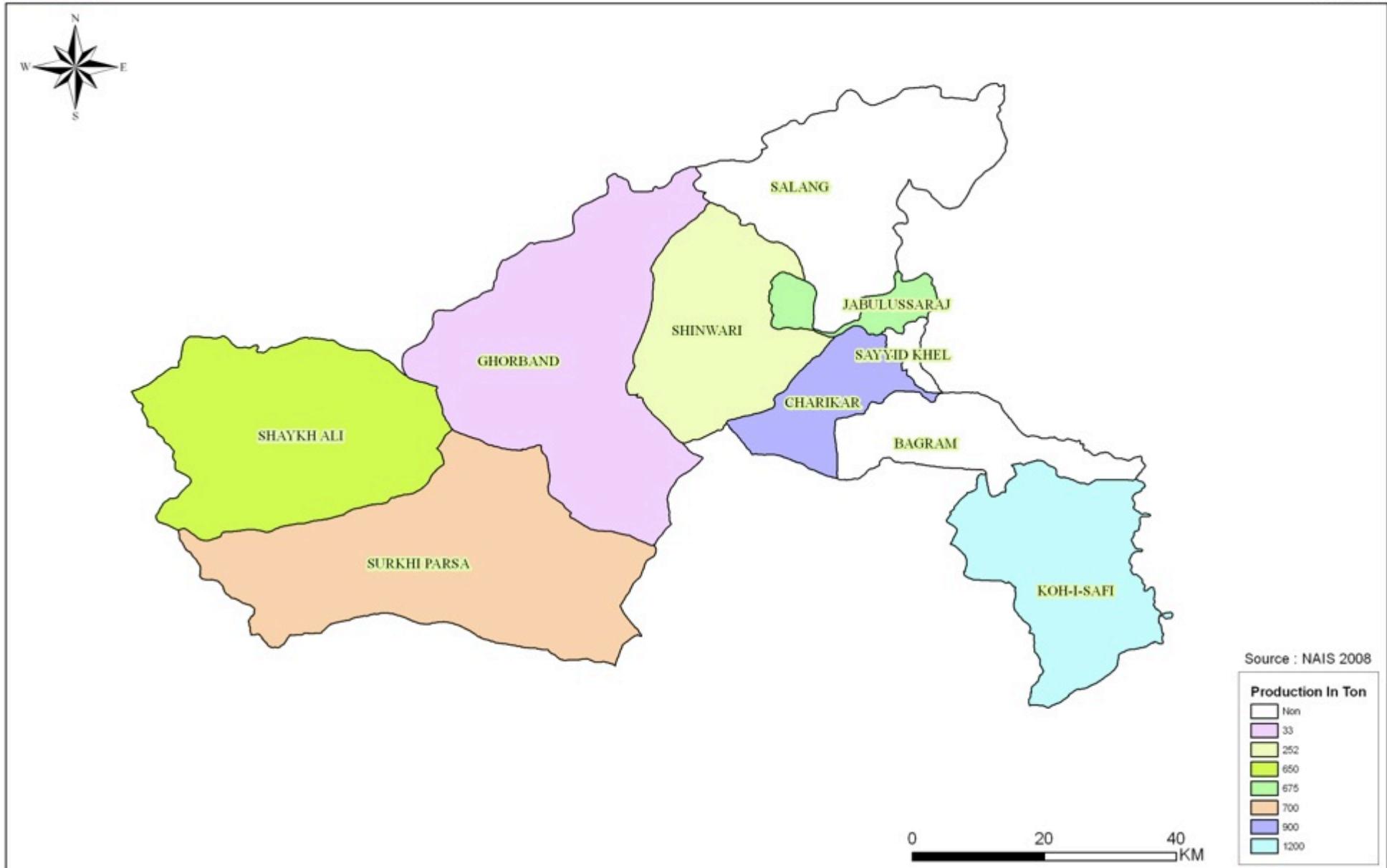
PARWAN PROVINCE AGRICULTURE MAP



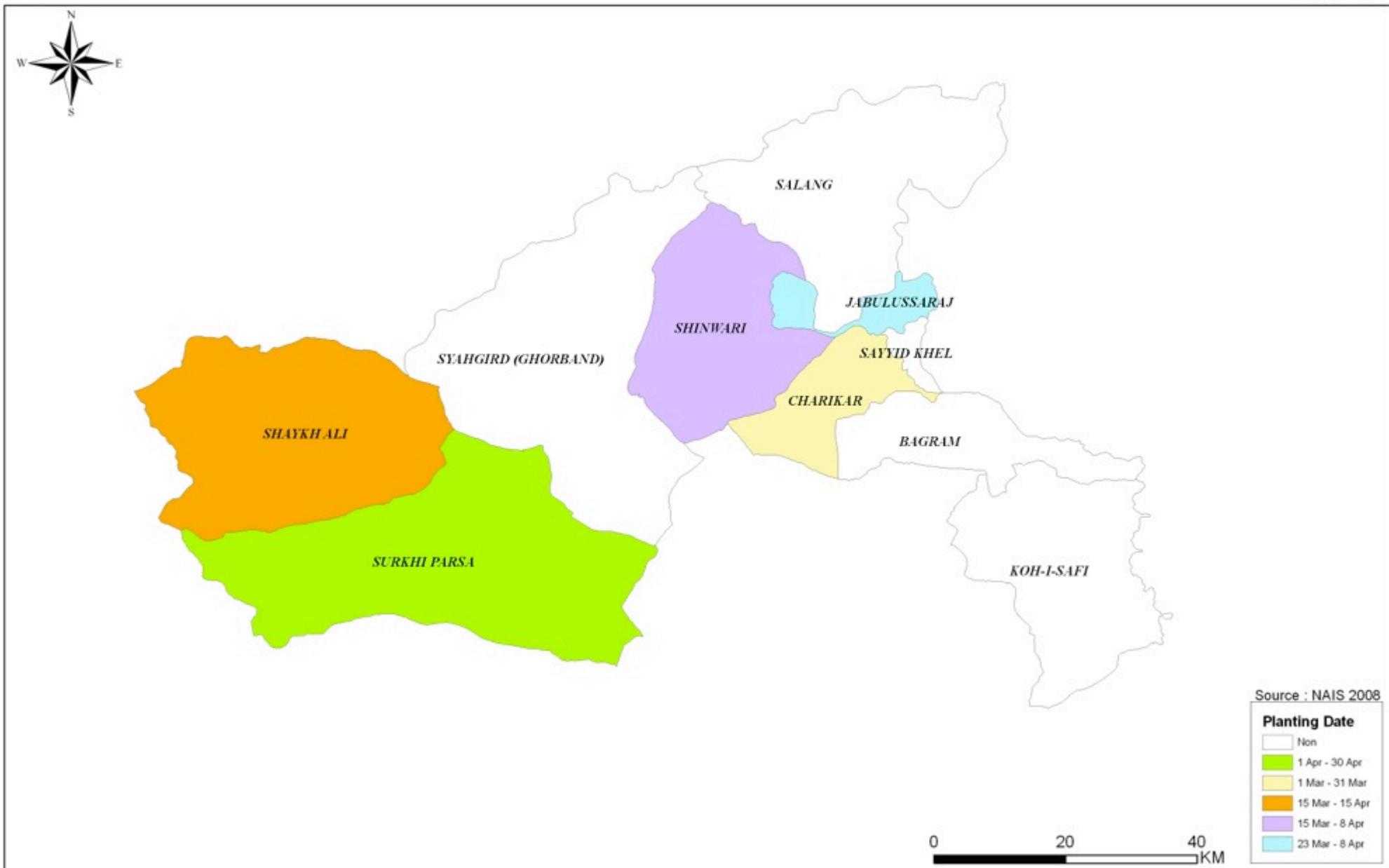
Parwan Province Crop Production (Wheat)



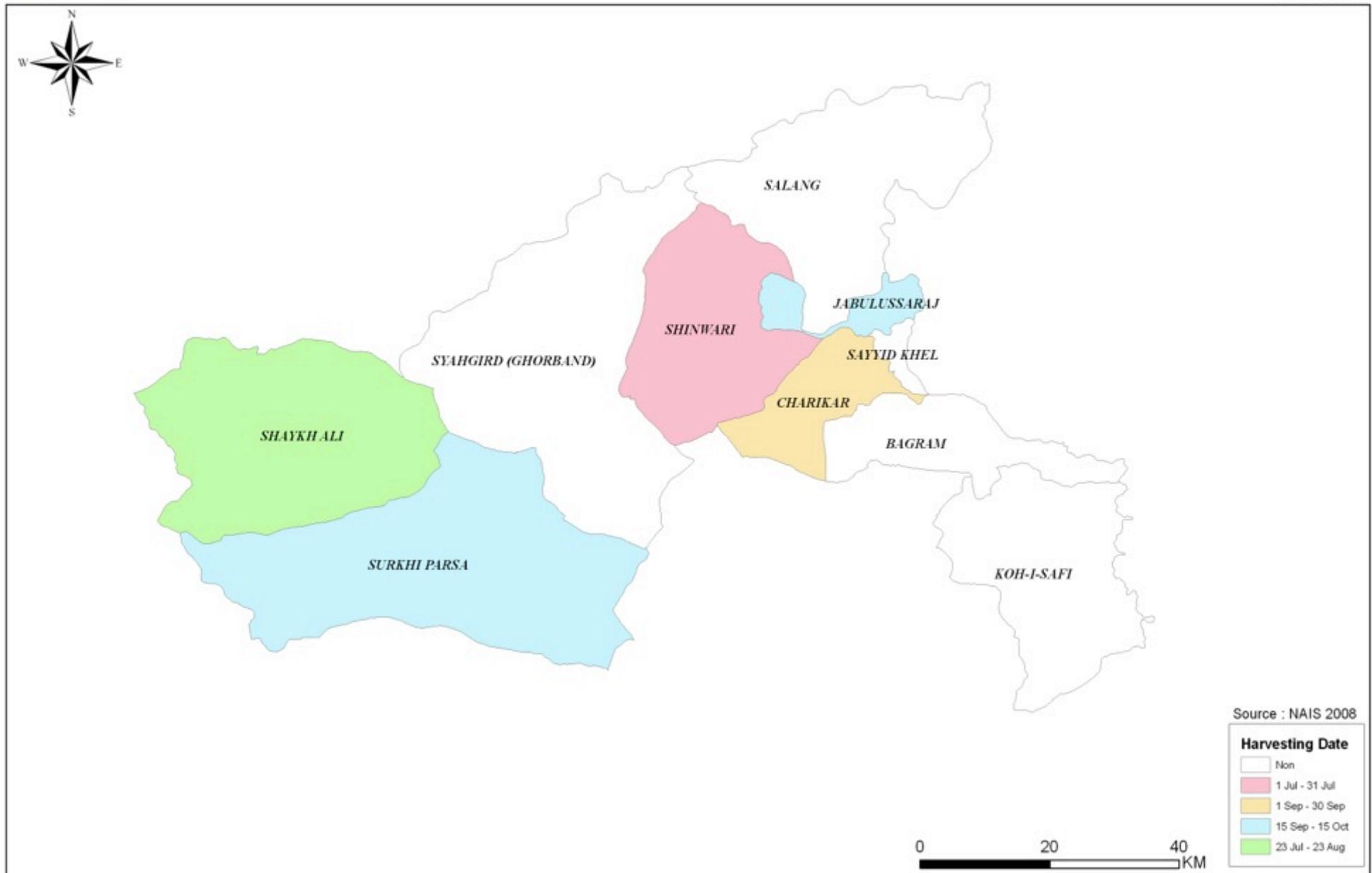
Parwan Province Crop Production (Alfalfa)



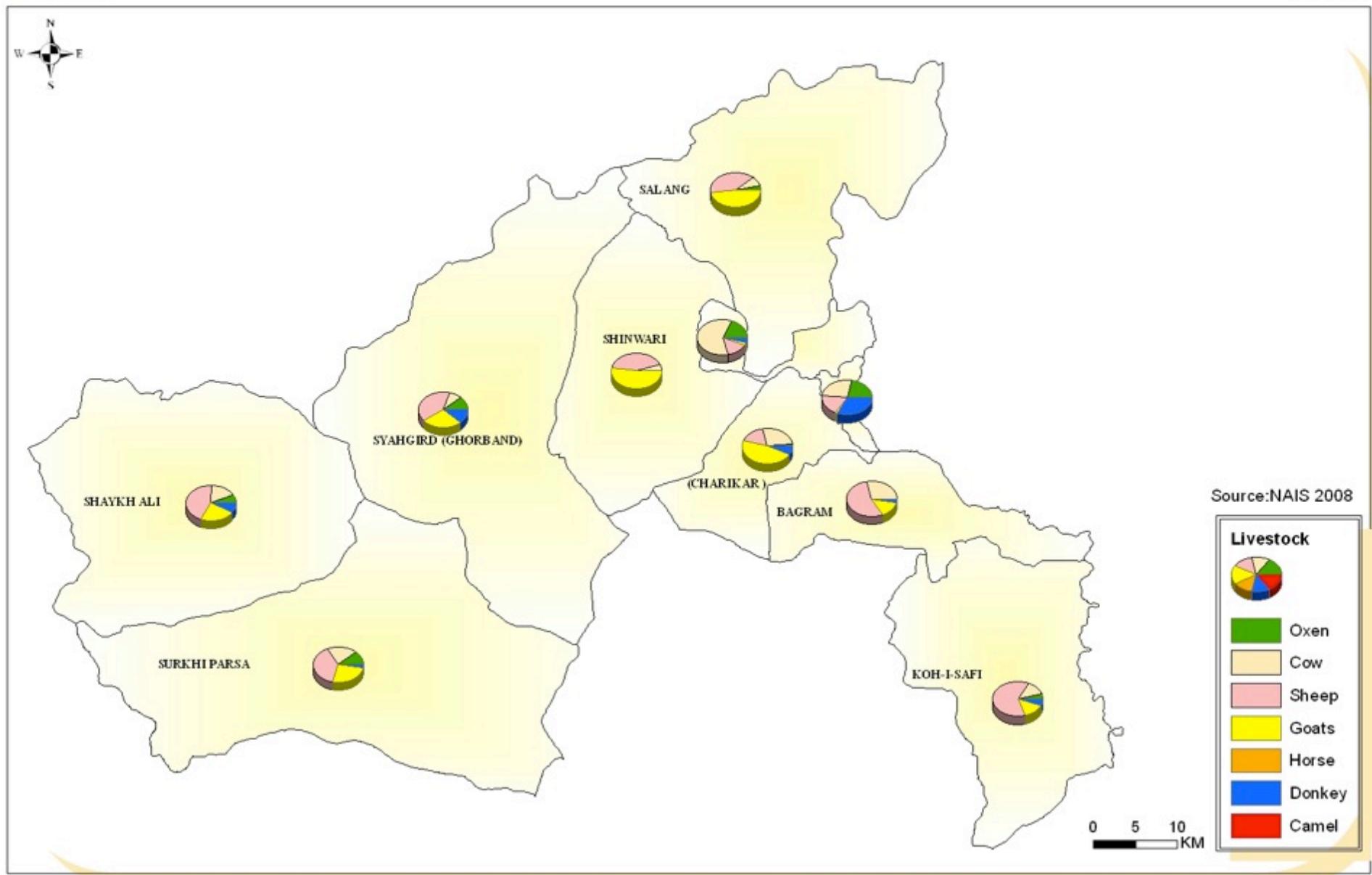
Parwan Province Crop Calendar (Onion)



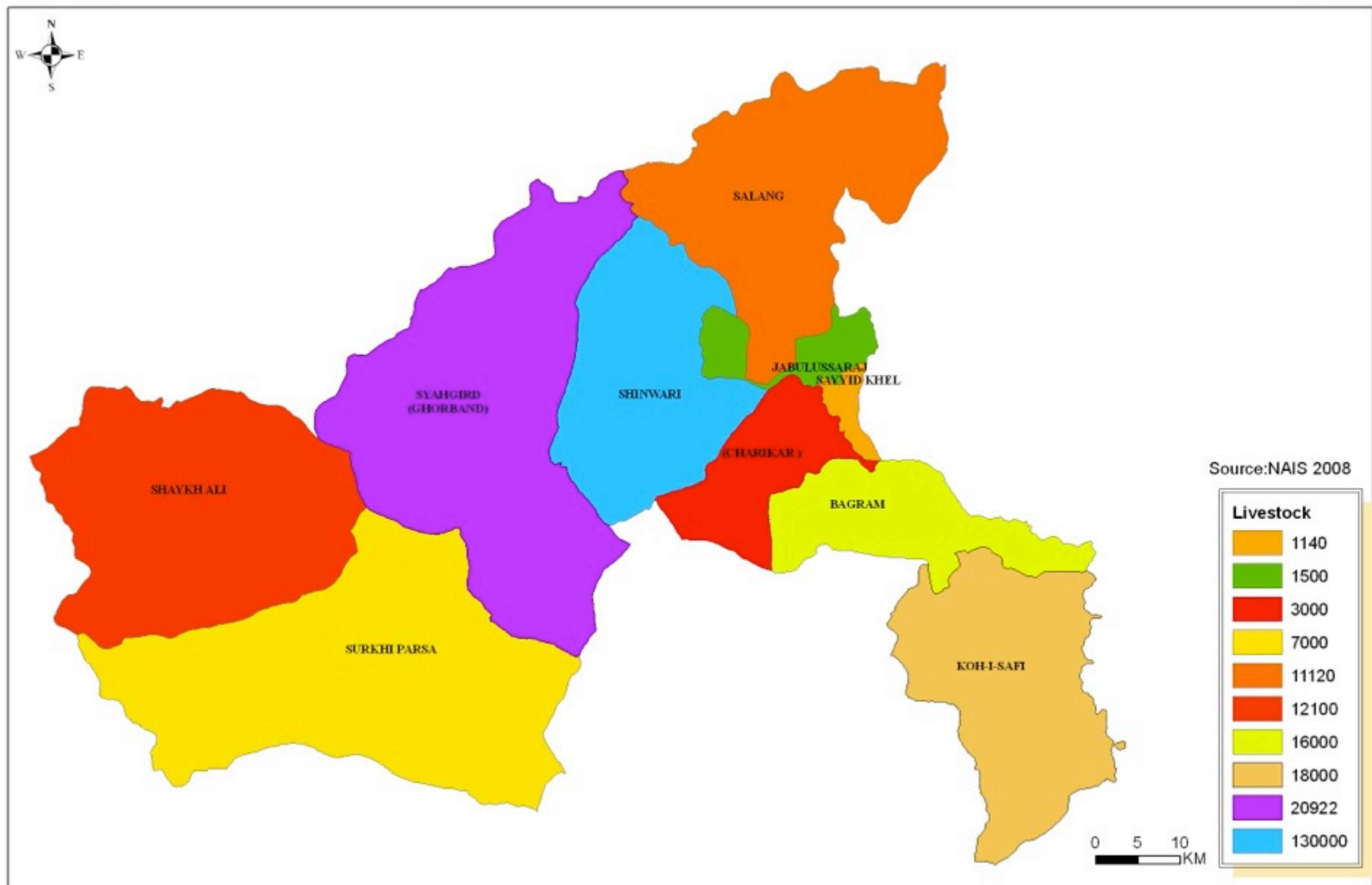
Parwan Province Crop Calendar (Onion)



Parwan Province Livestock



Parwan Province Livestock (Sheep)



Parwan Province Livestock

