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Kapisa Province Agricultural Profile 2008



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

Indexes

Pages

• 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

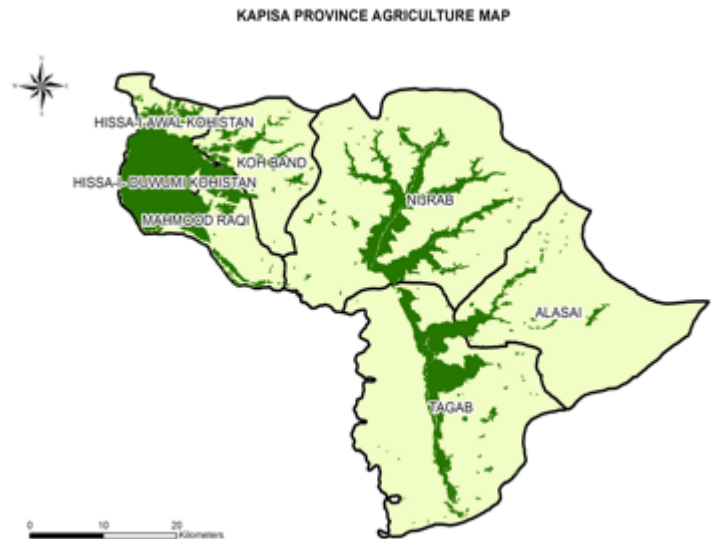
Maps

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

Agriculture

Profile and Data

Kapisa province



Kapisa Brief Introduction:

Kapisa province is located in eastern Afghanistan between 34.63-35.19 degrees latitude and 69.27-69.93 degrees longitude. Kapisa borders Panjshir province located to the north, Kabul province to the south, Parwan province to the west and Laghman province to the east. Kapisa is divided into 7 districts that cover an area of 1,884.65 square kilometers, which includes which 27,455 hectares of cultivated land. There are 906 villages in the province with an estimated population in 2008 of 413,341 (as of 2008). Kapisa is famous for producing mulberries and pomegranates and some districts grow large amounts of nuts. Herders raise sheep and goats in mountainous areas of the province.

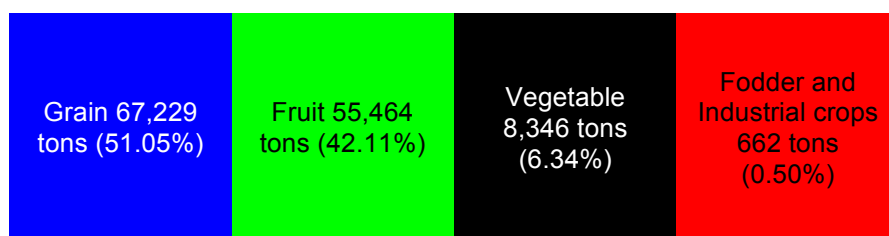
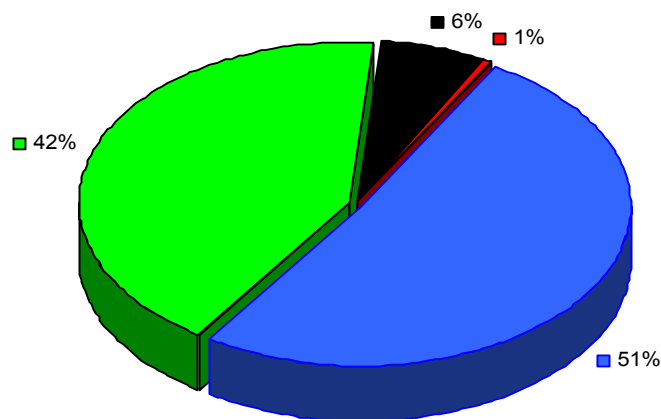


As of 2008, Kapisa farmers grew 25 different crops on 40,816 hectares of land (22 percent of total area). The cultivated area is more concentrated in the northwestern districts of the province due to the low elevation of the land and the vicinity to the Panjshir River. Eighty percent of cultivated land is concentrated in 4 of the 7 districts of Kapisa. The remaining 3 districts are more suitable for raising livestock because of the hilly and mountainous terrain in the area.

The districts of Kapisa are:

- Nijrab
- Mahmood Raqi
- Hesa Awal
- Hesa Dowam
- Alasai
- Kohband
- Tagab

The total 2008 crop production surveyed in Kapisa province was 131,522 metric tons MT with most of the production focused on grains (79.3 percent) followed by fruits (17.5 percent). Vegetables, industrial crops and animal fodder made up the remaining 0.5 percent of production. The total market value of the 2008 harvest was estimated at \$58,807,500, without any relevant value added processing.



Nijrab district led the province in terms of total production (25 percent) in 2008. Mahmood Raqi held the second position (21 percent) and Hesa Dowam Kohistan placed third by generating 17 percent of all Kapisa crops 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 Kapisa 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 Kapisa and collected by Kapisa AgNet officer Mr. Abdul Jabar and approved by deputy director of Kapisa Provincial Agriculture department Mr. Mohammad Azim Safi in September 2008.

Grains

Annual grain production surveyed is approximately 67 MT (market value of \$39 million). Of this total almost all (93 percent) consisted of major food staples wheat and corn (worth \$35 million) and the remaining 7 percent comprised other grain crops with an approximate value of \$4 million.

Grain	Tons	Value USD \$
Wheat	40,697	\$ 24,429,900
Barely	396	\$ 166,110
Maize	21,700	\$ 10,850,000
Mung bean	98	\$ 45,080
Pea	837	\$ 669,200
Milletts	1,628	\$ 423,150
Rice	1,873	\$ 2,531,150
Grand Total	67,229	\$ 39,114,590

Most of the province's wheat was grown in 4 districts (Nijrab, Mahmood-e-Raqi, Hesa-e-Dowam and Hesa-e-Awal) and amounted to 87.5 percent of all grain produced in Kapisa. Nijrab district took the lead in terms of wheat production (10,500 MT) in 2008. The figures presented in the table below are in kg.

	Wheat	Barely	Maize	Mung bean	Pea	Milletts	Rice
Hesa-e- Awal	7,882,000	210,000	4,375,000	9,800	224,000	367,500	21,000
Hesa-e- Dowam	8,755,000	35,000	4,375,000	9,800	196,000	367,500	52,500
Tagab	-	-	875,000	-	52,500	-	21,000
Mahmood-e- Raqi	8,538,000	70,000	4,375,000	49,000	364,000	315,000	21,000
Nijrab	10,444,000	52,500	4,725,000	9,800	-	420,000	42,000
Kohband	4,517,500	-	875,000	19,600	-	-	-
Alasai	560,000	28,000	2,100,000	-	-	157,500	1,625,000
Total:	40,696,500	395,500	21,700,000	98,000	836,500	1,627,500	1,782,500

Fruits

Kapisa's total fruit production surveyed in 2008 was estimated at 55,353 MT and was valued at over \$17 million. Mulberries represented 78 percent of all fruit production and amount to half of the revenue earned from all fruit sold in the province. Although 5,569 MT of grapes are grown in Kapisa, the crop ranks fourth in terms of value on the market.

Fruits	Tons	Value USD \$
Apple	420	\$ 294,000
Grape	5,569	\$ 1,893,528
Apricot	694	\$ 388,864
Mulberries	43,400	\$ 8,680,000
Walnut	966	\$ 1,642,200
Almond	1,904	\$ 2,170,560
Pomegranate	2,378	\$ 2,140,425
Melon	50	\$ 17,136
Water Melon	61	\$ 1,416
Other Fruit	22	\$ 11,648
Total	55,353	\$ 17,221,225

As was the case with grains grown in the province, fruit production is also geographically limited to a few districts. The following table presents the top fruit producing districts (figures are in kg). Tagab district produced almost all pomegranates (99 percent) in Kapisa while mulberries were grown in all districts except Tagab district. Farmers in Nijrab district grew the highest volumes of mulberries (32 percent) and Mahmood Raqi produced nearly all (99 percent) of the provinces' grapes.

	Apple	Grape	Apricot	Mulberries	Walnut	Almond	Pomegranate	Mellon	W.Melon	Other Fruit
Hesa-e-Awal	105,000	50,400	224,000	7,000,000	-	112,000	-	4,200	6,300	-
Hesa-e-Dowam	210,000	14,700	168,000	7,000,000	-	224,000	-	4,200	2,100	-
Tagab	-	42,000	22,400	-	-	-	2,362,500	-	-	22,400
Mahmood-e-Raqi	52,500	5,355,000	168,000	7,000,000	-	448,000	-	42,000	52,500	-
Nijrab	52,500	44,100	112,000	14,000,000	787,500	280,000	-	-	-	-
Kohband	-	-	-	4,200,000	73,500	280,000	-	-	-	-

Alasai	-	63,000	-	4,200,000	105,000	560,000	15,750	-	-	-
	420,000	5,569,200	694,400	43,400,000	966,000	1,904,000	2,378,250	50,400	60,900	22,400

Vegetables

Vegetables	Tons	Value USD \$
Potato	1,330	\$ 319,920
Onion	3,160	\$ 379,200
Tomato	2,796	\$ 335,520
Eggplant	29	\$ 9,758
Other Vegetable	1,031	\$ 432,936
Total	8,346	\$ 1,477,334

Vegetable production surveyed in Kapisa province during 2008 was estimated at 8,346 MT, which is reported to have generated almost \$1.5 million on the market. Kapisa farmers produced more than 7 different types of vegetables but only 3 reached over 1,000 MT in annual volumes. Onions and tomatoes represented 71 percent of the province's total vegetable harvest.

Approximately 87 percent of vegetables grown in Kapisa are found in 3 districts, as shown in the following table. Tagab district produced one third of all onions in the province; 30 percent of tomatoes was produced by Nijrab district farmers; and just over one third (31 percent) of all potatoes were harvested in Hesa Dowam Kohistan. Figures presented in the table below are in kg.

	Potato	Onion	Tomato	Eggplant	Other Vegetable
Hesa-e- Awal	7,000	48,000	180,000	700	174,700
Hesa-e- Dowam	420,000	480,000	600,000	8,000	479,200
Tagab	21,000	1,200,000	360,000	-	-
Mahmood-e- Raqi	42,000	480,000	600,000	-	128,900
Nijrab	350,000	720,000	840,000	20,000	240,000
Kohband	420,000	112,000	156,000	-	-
Alasai	70,000	120,000	60,000	-	8,000

1,330,000	3,160,000	2,796,000	28,700	1,030,800
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Fodder and industrial

Cotton is an important industrial crop grown in Kapisa and is exclusively used for local benefit. Kapisa farmers earned \$933,660 from this cash crop in 2008.

Fodder & Industrials	Tons	Value USD \$
Clover	62	\$ 12,480
Cotton	599	\$ 933,660
Other Industrial	1	\$ 493
Total	662	\$ 946,633

Cotton is grown in those districts where water from the Panjshir River can be easily accessed. Clover and other industrial crops are grown in very small amounts for household use only. Figures presented in the table below are in kg

	Clover	Cotton	Other Industrial
Hesa-e- Awal	1,200	315,000	700
Hesa-e- Dowam	1,200	63,000	350
Tagab	-	10,500	-
Mahmood-e- Raqi	-	210,000	-
Nijrab	-	-	-
Kohband	-	-	-
Alasai	60,000	-	-

62,400	598,500	1,050
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Livestock

Farmers in Kapisa are also involved in animal husbandry. Based on the 2008 statistic survey, 63.42 percent of sheep and goats are kept by farmers in the mountains and foothills of Nijrab, M. Raqi and Alasai districts (See annex 5).

Province	District	Total livestock	Total Poultry
Kapisa	Alasai	45,980	7,010
	H.Awal	29,209	32,308
	H.Dowam	28,053	28,730
	Kohband	30,594	19,110
	M.Raqi	48,682	49,260
	Nijrab	89,558	190,340
	Tagab	52,052	11,150
Total		324,128	337,908

There are 324,128 household livestock present in Kapisa of which sheep number the highest. In addition, residents of Kapisa maintained an estimated 337,908 chickens, ducks and turkeys in 2008. Nijrab district is home to over one fourth (27.6 percent) of Kapisa's livestock and M. Raqi and Tagab districts jointly hold another 31 percent.

Animals	Cow	Sheep	Goat	Donkey	camel	Horse	Total	Ducks	Turkey	Chicken	Total
Heads	104,521	142,519	63,099	12,308	917	964	324,128	1,720	460	335,728	337,908
Percentage	32.27	43.96	19.46	3.79	0.28	0.29	100	0.41	0.24	99.35	100

Annex 1

Kapisa Province crop surveyed by Hec, ton and USD

	Crops	Hectares	Metric Tons	Value USD \$
1	Wheat	14,710	40,697	\$ 24,429,900
2	Barely	200	396	\$ 166,110
3	Maize	12,400	21,700	\$ 10,850,000
4	Mung bean	200	98	\$ 45,080
5	Pea	380	837	\$ 669,200
6	Millet	3,100	1,628	\$ 423,150
7	Rice	1,375	1,873	\$ 2,531,150
8	Potato	320	1,330	\$ 319,920
9	Onion	262	3,160	\$ 379,200
10	Tomato	233	2,796	\$ 335,520
11	Eggplant	8	29	\$ 9,758
12	Other Vegetable	108	1,031	\$ 432,936
13	Apple	40	420	\$ 294,000
14	Grape	902	5,569	\$ 1,893,528
15	Apricot	130	694	\$ 388,864
16	Mulberries	3,100	43,400	\$ 8,680,000
17	Walnut	1,850	966	\$ 1,642,200
18	Almond	290	1,904	\$ 2,170,560
19	Pomegranate	755	2,378	\$ 2,140,425
20	Other Fruit	60	22	\$ 11,648
21	Cotton	285	598	\$ 933,660
22	Other Ind. Crops	3	1	\$ 493
23	Melon	24	50	\$ 17,136
24	Water melon	29	61	\$ 14,616
25	Clover	52	62	\$ 12,480
	Grand Total	40,816	131,700	\$ 58,791,534

ANNEX 2			
Ranking of Kapisa Province districts by			
tons surveyed annually			

	District	Tons	Hectares	Value USD \$	% of production
1	Nijrab	33,055	10,217	\$ 13,775,512	25.13%
2	Mahmood -e- Raqi	28,310	8,192	\$ 12,176,428	21.52%
3	Hesa -e- Dowam	23,465	7,286	\$ 10,235,043	17.84%
4	Hesa -e- Awal	21,318	7,109	\$ 9,566,298	16.21%
5	Kohband	10,653	2,721	\$ 4,574,126	8.10
6	Alasai	9,732	3,741	\$ 5,492,456	7.40
7	Tagab	4,989	1,550	\$ 2,888,662	3.79
	Grand Total	131,522	40816	\$ 58,708,525	100%

Annex 3 Harvest seasons for Kapisa

Agricultural crops surveyed

Crops	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tons
Almond													1,904
Apple													420
Apricot													694
Barley													396
Clover													62
Cotton													599
Eggplant													29
Grape													5,569
Wheat													40,697
Maize													21,700
Melon													50
Millet													1,628
Mint													4
Mulberries													43,200
Mung bean													98
Okra													144
Onion													3,160
Pea													837
Pepper													601
Plum													22
Pomegranate													2,378
Potato													1,330
Rice													1,783
Sesame													1
Spinach													3
Squash													10
Tomato													2,976
Turnip													89
Walnut													966
Water melon													61
White radish													175

Annex 4

District Profile Summary for (Mahmood Raqi) Kapisa 2008

DISTRICT PROFILE:			Mahmood Raqi		
1	DEMOGRAPHICS		7	Water	
	Region:	Central		Rain fed	5%
	Province:	Kapisa		Kariz	20%
	District:	Mahmudraqi		Canals	50%
	Villages:	70		Springs	10%
	Households:	10,254		Bored wells, #	15
	Estimated population:	61,525		Access/irrigated water	50%
2	Land		8	Infrastructure	
	Sharecroppers, %	2%		Access/drinking water	15%
	Arable land, jeribs	24,750		Schools	10
	Arable land, hectares (/5)	4950		Electricity costs, Afs/KWH	25
	Grazing land, jeribs	0		Cell phone access	yes
	Geographic area, Km2	0		Health clinic, #	1
	Landowner, %	92		VFUs, #	1
	Irrigated land area, hectares	4700	9	Livelihood	
	Rainfed land in use,hectars	250		Agro-horticulture sector, %	90
3	Primary Crops			Livestock sub-sector, %	5
	Spring wheat, hectares	170		Bussiness and Trade %	0
	Fall wheat, hectares	2900		Government and NGO %	3
	Maize, hectares	2500		Daily Labor %	2
	Mung bean, hectares	100	10	Enterprises	
	Pea, hectares	130		General shops, #	
	Millet, hectares	600		Food service,#	
	Cotton, hectares	100		Flour mills,#	
	Graps, hectares	850		Shoe repair,#	
	Other vegetables, hectares	132		Blacksmith,#	
	Other fruits, hectars	615		Oil extraction,#	
4	Livestock			Butcher shops, #	
	Livestock owners, %	1		Carpet weaving, #	
	Draught oxen, #	0	11	Agricultural Initiatives	
	Dairy cow, #	21000		Artificial Insimulation	
	Sheep & Goats, #	12543		Rentable Ag Machinery	
	Donkey, #	2375		Improved wheat seed	
	Horses, #	98		Fruit Nurseries, #	1
	Checkens & Turkey, #	49260		Credit facility	yes,
	Camel, #	0		Poultry farm, #	1
	Kuchi, (seasonal families),#	350		Pest control	
	Camels, #	500		Cool storage, #	
	Kuchi sheep, #	3,700		Green houses, #	
	Kuchi goats, #	2,600	12	Household (HH) Indices	
	Kuchi other, #	2,700		Arable land/HH, jeribs	2.413
5	Transportation			Grazing land/HH, jeribs	0
	Distance to center, km			Irrigated land/HH, jeribs	2.291
	Time to center, minutes	20		Rainfed land/HH, jeribs	0.121
	Cost to center, Afs	100		Total livestock/HH, #	2.289
	Truck cost to center, Afs	1,500		Sheep&goats/HH, # (kochi)	1.223
	District roads	Unpaved		Poultry/HH, #	4.803
	Provincial roads	unpaved	13	Check	
	Accessibility	All year		Households/village:	146.485
6	Markets			Population/household:	6
	Provincial	All year		Schools/village:	0.142
	District, General, day	2days		Number of bored wells/village	0.214
	District, livestock, day			Number of enterprise/village:	0
	Traders/assemblers	yes,			

Annex 5

Province: KAPISA

LiveStock and Poultry Survey 2008

NAIS/ASAP/Chemonics

[illegible]

Annex 6

Province: KAPISA

Agriculture Land use in Hectars 2008

NAIS/ASAP/Chemonics

No	Province	District	Village	Irrigated	Rainfed	Total	Fruit orch	Farrows & vegetable land	Cereal Crops	Forage Crop land	Forest Land	Pasture Land	Bareland	Mountain	Total land
1	Kapisa	Alasai	60	2,100	-	2,100	250		-	-	200	350	-	-	2,650
2		Hisa Awal	185	4,150	300	4,450	100	50	2,300	2,000	200	-	-	1,500	6,150
3		Hisa Dowam	141	3,770	-	3,770	200	70	2,500	1,000	-	-	-	-	3,770
4		Kohband	50	1,500	335	1,835	-	320	-	-	-	-	-	-	1,835
5		Mahmood Raqqi	70	4,700	250	4,950	1,100	120	-	-	-	-	-	-	4,950
6		Nijrab	250	5,900	150	6,050	20	350	4,000	-	1,500	-	-	-	7,550
7		Tagab	150	4,300	-	4,300	900	450	1,500	-	-	800	650	-	5,750
Total			906	26,420	1,035	27,455	2,570	1,360	10,300	3,000	1,900	1,150	650	1,500	32,655

Annex No. 7:

Crop Calendar

NAIS/ASAP

Activities		District	Hese	Awal	Province	Kapisa	Date	GPS HQ	Elev.HQ										
No	Planting=P;Harvest=H;Treat=T	seasons	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
Fruit and Nut Crops																			
1	Apple																		
2	Grape																		
3	Pomegranate																		
4	Pear																		
5	apricot																		
6	Peach																		
7	Feg																		
8	Plum																		
9	Almond																		
10	Walnut																		
11	Pistachio																		
12	Mulberri																		
Vegetables																			
13	Tomato																		
14	Potato																		
15	Water melon																		
16	Melon																		
17	Carrot																		
18	Okra																		
19	Eggplanate																		
20	Cucumber																		
21	Cabbage																		
22	Garlic																		
23	onion																		
24	Califlower																		
25	Spinach																		
Cash crop																			
26	Cotton																		
27	Rice																		
28	Wheat	spring																	
29	Com	fall																	
30	Mung bean																		
31	Sasame																		
32	Flax																		
33	Sugar beat																		
34	Sugar cane																		
35	Millte																		
36	Cumin																		
37	S unflower																		
38	Canola																		
39	Zafaran																		
40	Pea																		

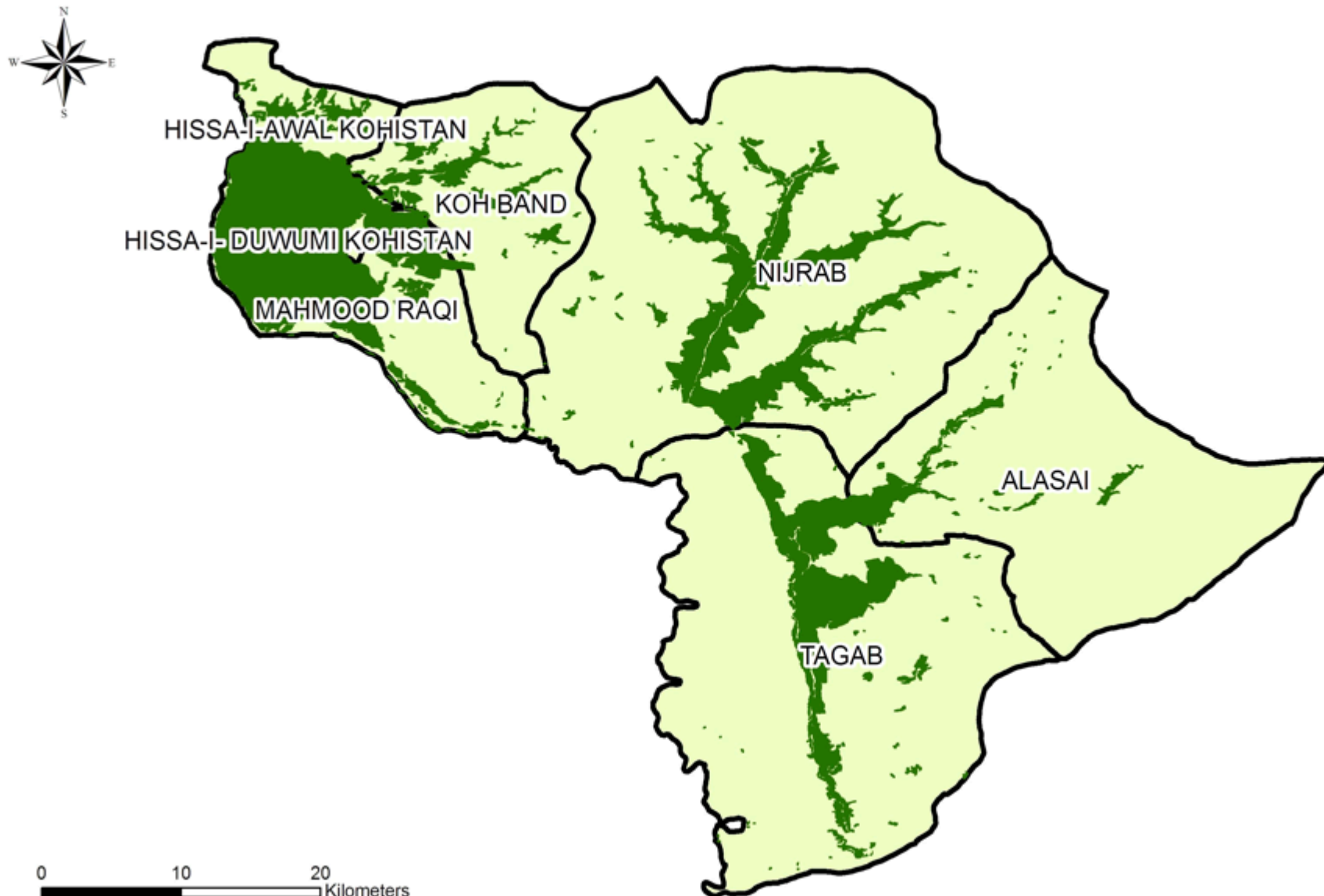
Planting

Harvesting

KAPISA PROVINCE STANDARD MAP



KAPISA PROVINCE AGRICULTURE MAP



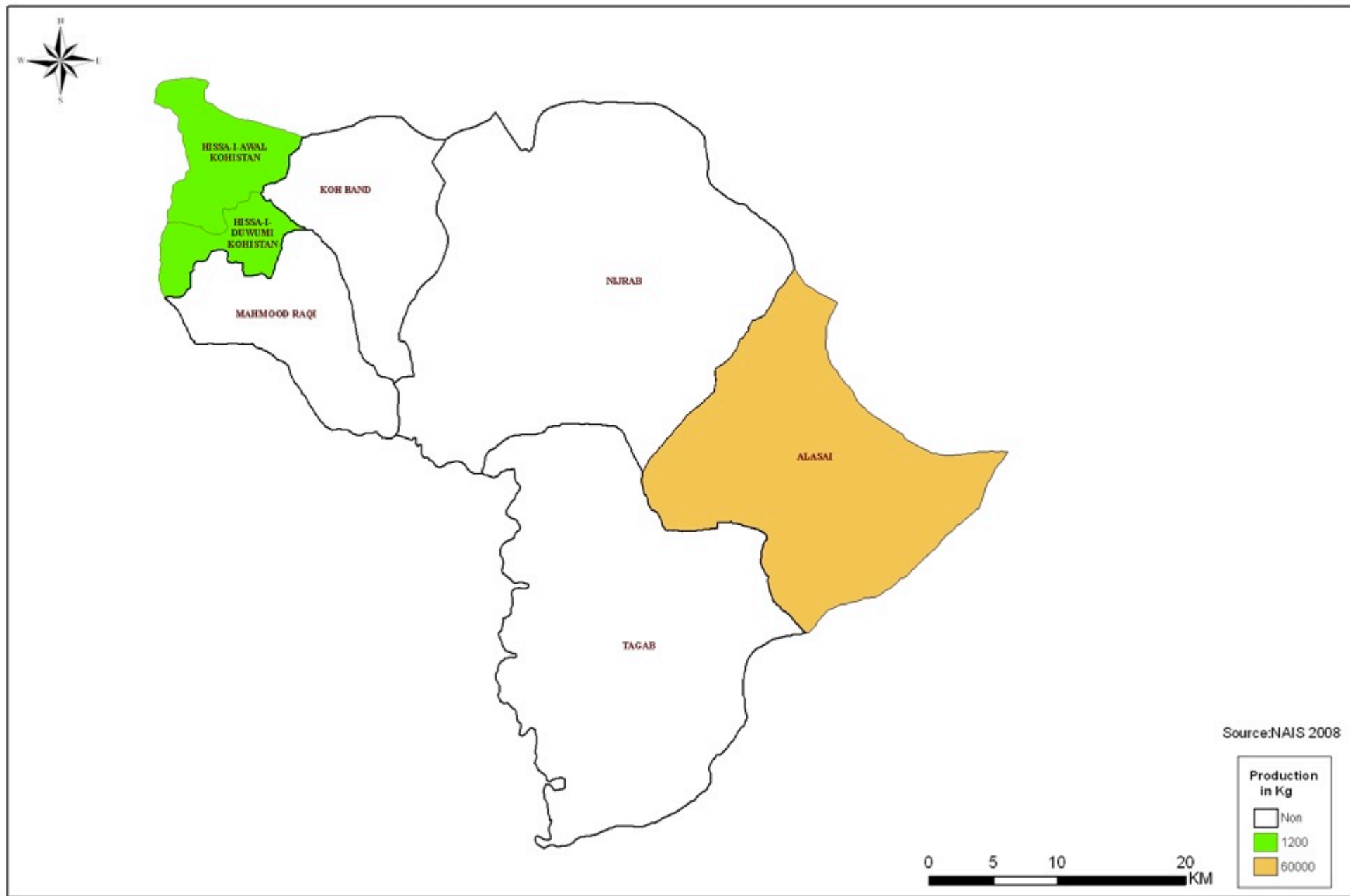
Kapisa Province Crop Production (wheat)



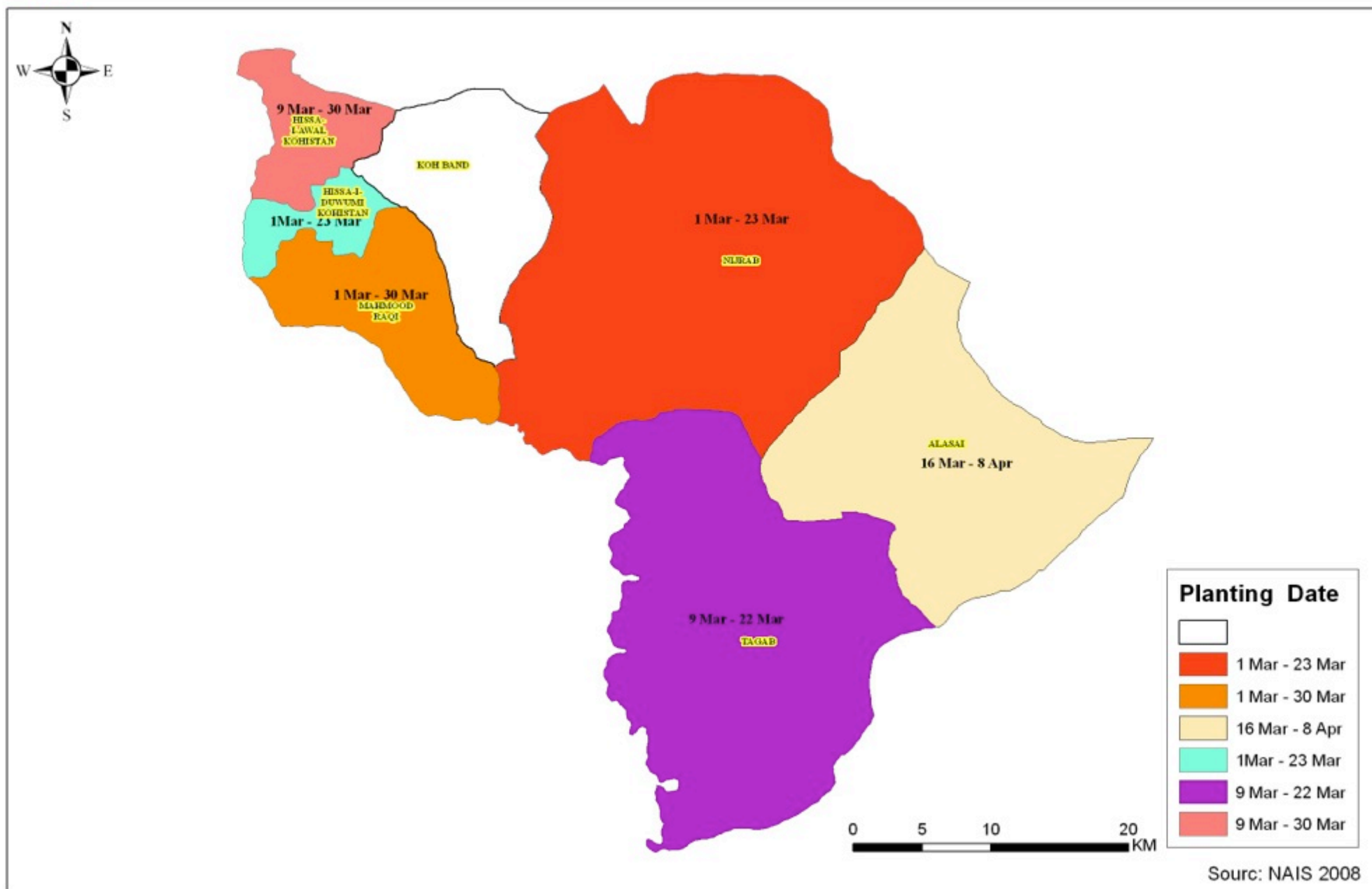
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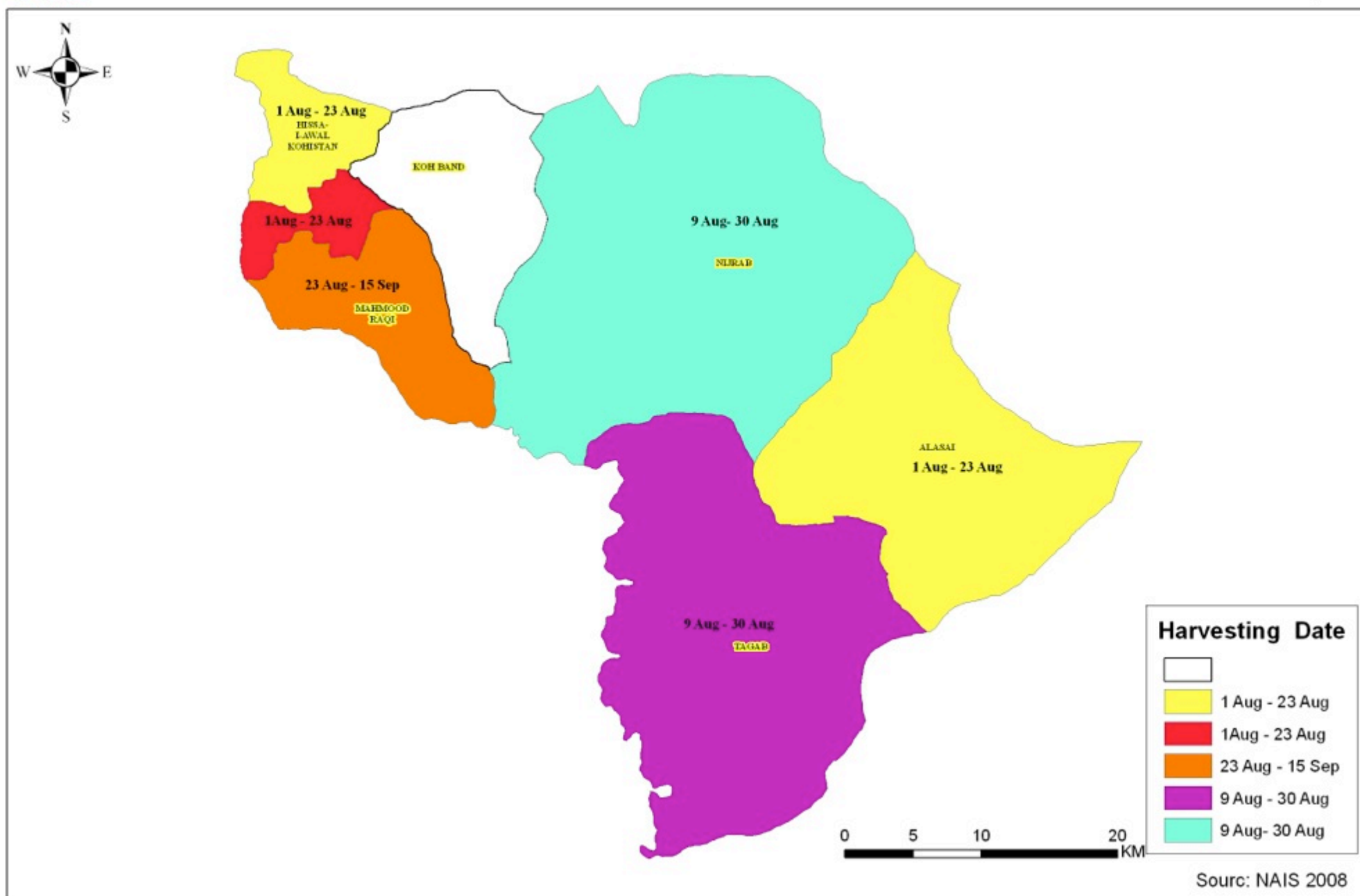
Kapisa Province Crop Production (Clover)



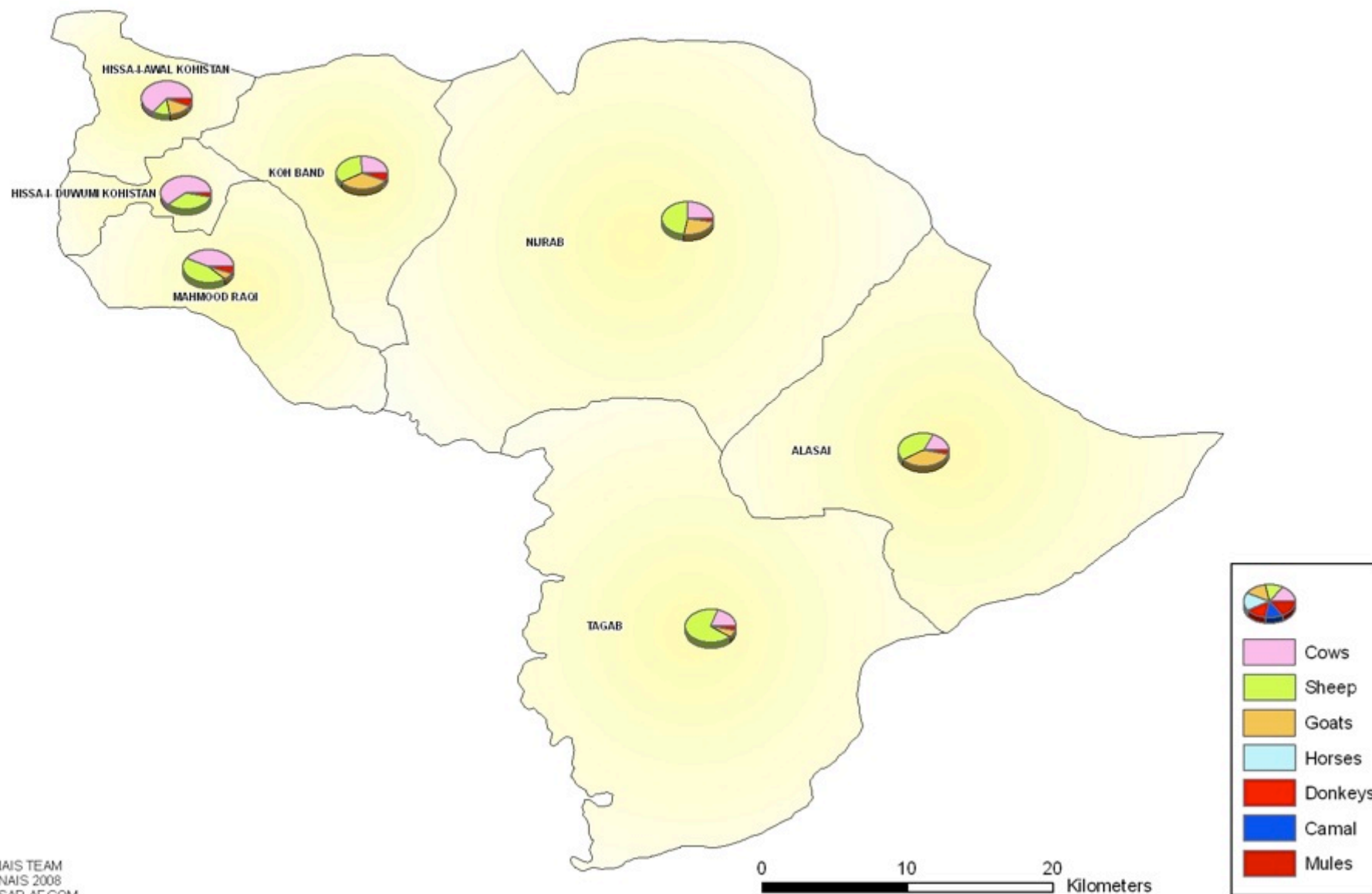
Kapisa Province Onion Crop (Calendar) Map



Kapisa Province Onion Crop (Calendar) Map

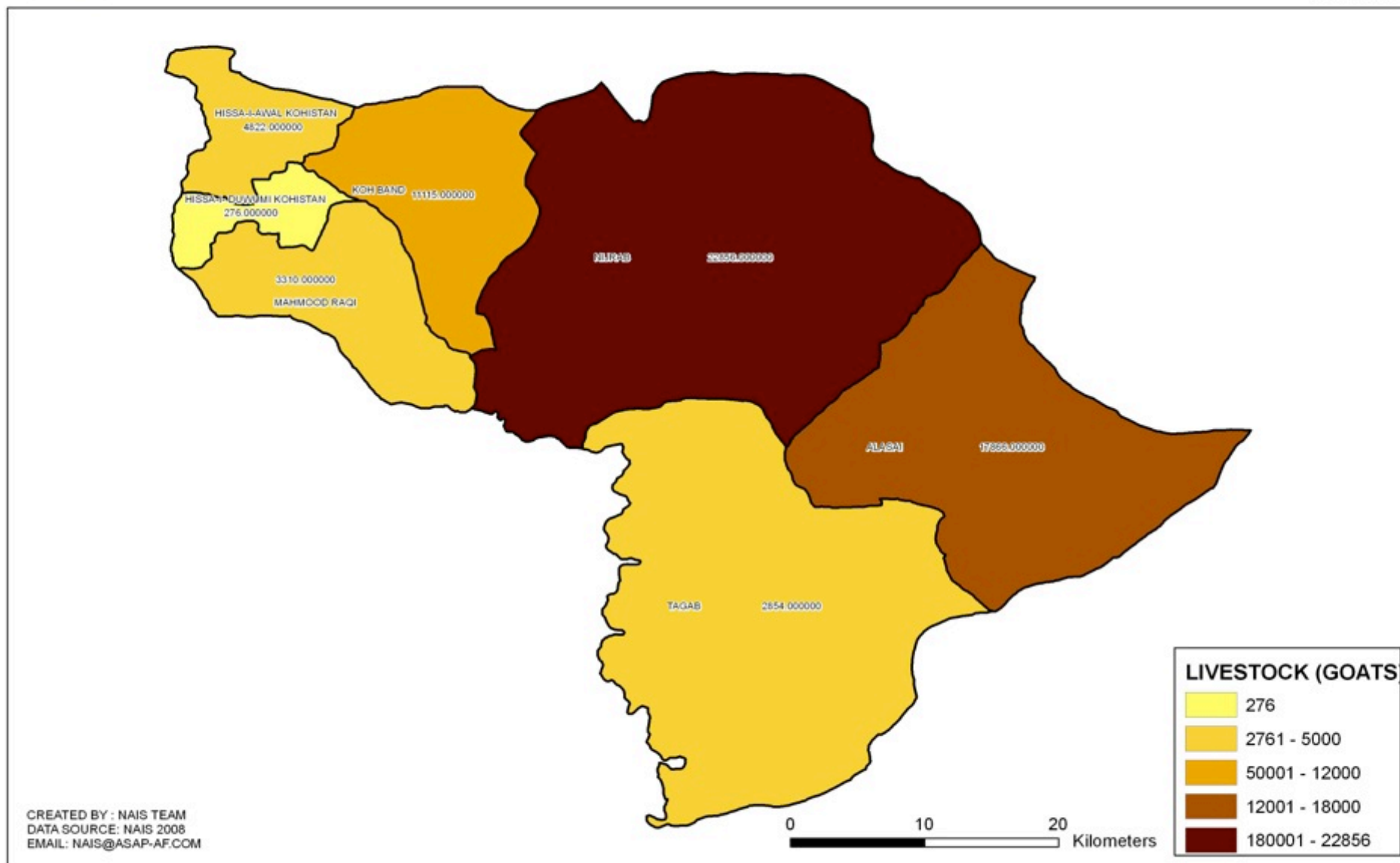


KAPISA PROVINCE LIVESTOCK

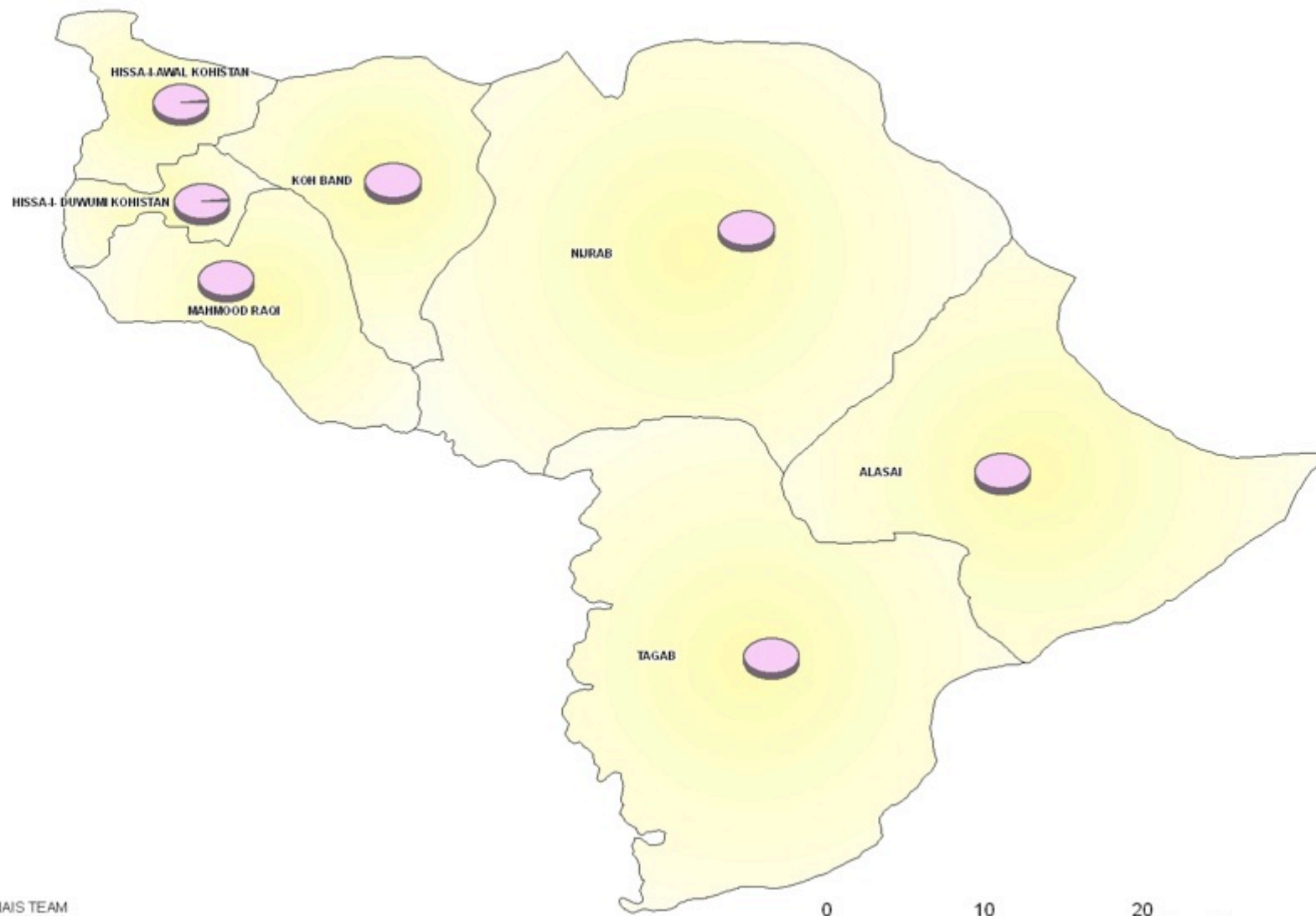


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KAPISA PROVINCE LIVESTOCK (GOATS)



KAPISA PROVINCE LIVESTOCK



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