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## ACCELERATING SUSTAINABLE AGRICULTURE PROGRAM



### Kunduz 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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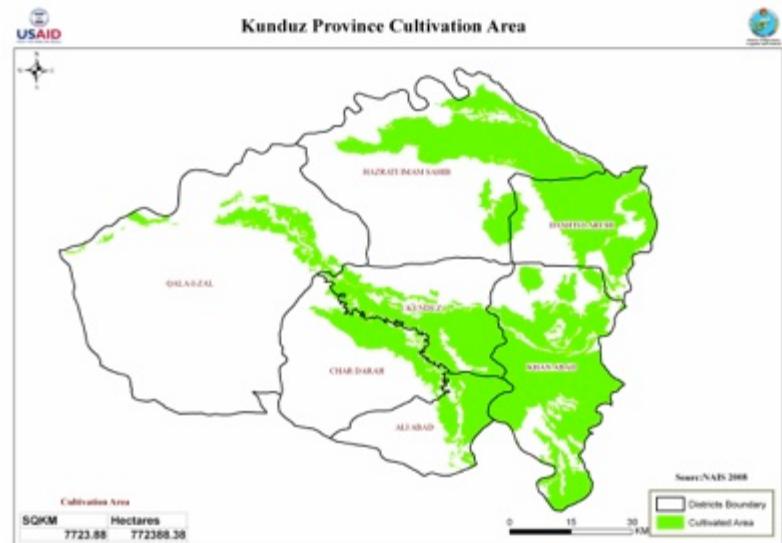
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# Agriculture

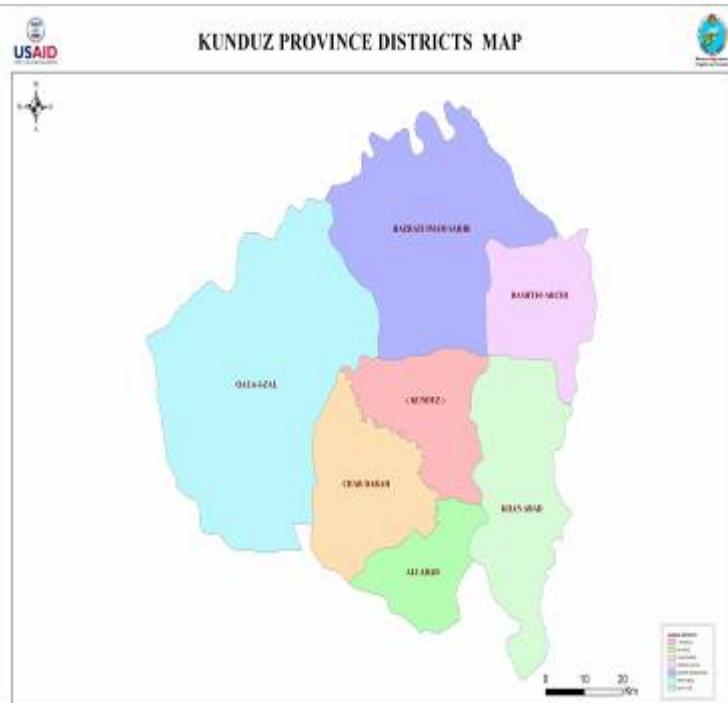
## Profile and Data

Kunduz province



### Kunduz Brief

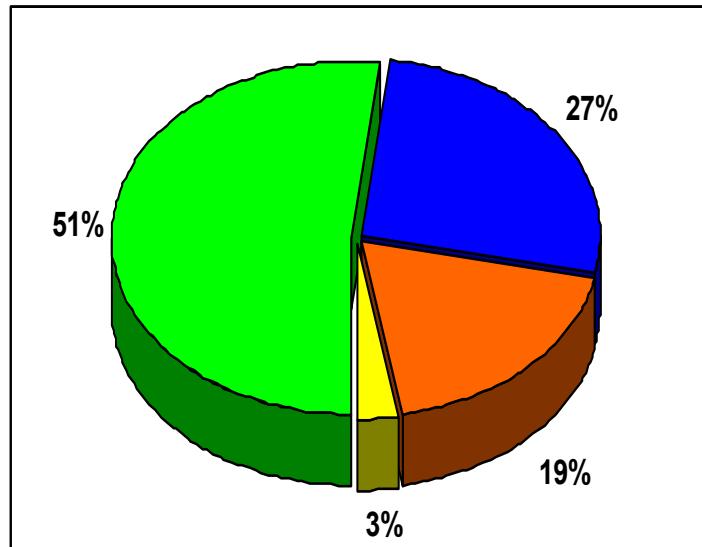
Kunduz is an agricultural and industrial based province in northern Afghanistan located in the Amu River basin between 36.30-37.33 degrees latitude and of 68.02-69.35 degrees longitude. The province borders Baghlan and Samangan province to the south, Balkh province to the west, Tajikistan to the north and the Amu River forms the border with Takar province to the east. There are 107 villages in the Kunduz with a population of 956,677, most of whom are involved in raising sheep and goats. Kunduz has 7 districts covering a 7,773,768 square kilometers, which includes 241,238 hectares of agricultural land. Melons and cotton grown in Kunduz are considered as being some of the best quality in Afghanistan.



In 2008 Kunduz farmers grew of 35 different crops on approximately 193,983 hectares (25.11 percent of total area). The province's cultivated area is mostly concentrated in the north and southeastern districts in the low land near the Kunduz River. Seventy-four percent of cultivated land is concentrated in 4 of Kunduz's 7 districts. The rest of the 3 districts are suitable for raising livestock due to the mountainous terrain. The districts of Kunduz are:

- Aliabad
- Dashti Archi
- Chardara
- Hazrat Imam
- Khan Abad
- Kunduz Center
- Qalaizal

The total agricultural production in Kunduz was estimated as 793,502 metric tons (MT). Grains make up just over half (51.85 percent) of the total 2008 harvest and the remaining consisted of fruits (26.22 percent); vegetables (18.80 percent) and fodder and industrial crops (2.73 percent).



|                             |                             |                                 |   |
|-----------------------------|-----------------------------|---------------------------------|---|
| Grain 411,467 tons (51.85%) | Fruit 211,242 tons (26.62%) | Vegetable 149,168 tons (18.80%) | Fodder & Industrial corps 21,625 tons (2.73%) |
|-----------------------------|-----------------------------|---------------------------------|---|

Imam Sahib district led the province in terms of agricultural production (22.57 percent) followed by Aliabad district (21.48 percent). Imam Sahib farmers grew high amounts of grain and melons and are heavily involved in raising livestock. Meanwhile, Aliabad district produced the largest volume of vegetables throughout the province.

### 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 Kuduz 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 Kunduz and collected by Kunduz AgNet officer Mr. Faizullah Safi and approved by deputy director of Kapisa Provincial Agriculture department Mr. Mohammad Azim Safi in October 2008

## Grains

Grain production surveyed in Kunduz province during 2008 was estimated at 411,467 MT (worth \$304.7 million). Kunduz farmers grew more than 5 different types of grains with rice and wheat making up almost all (97.58 percent) of the province's total grain output (generating \$297 million in revenue). The remaining 2.42 percent comprised other grain crops that valued \$7.35 million.

| Grain        | Tons           | Value USD \$          |
|--------------|----------------|-----------------------|
| Rice         | 136,938        | \$ 136,938,000        |
| Wheat        | 258,807        | \$ 160,460,108        |
| Barely       | 1,423          | \$ 597,694            |
| Maize        | 873            | \$ 471,177            |
| Mung bean    | 11,605         | \$ 4,177,872          |
| Pea          | 205            | \$ 171,990            |
| Red bean     | 1,616          | \$ 1,938,720          |
| <b>Total</b> | <b>411,467</b> | <b>\$ 304,755,561</b> |

Farmers grew wheat in all districts of Kunduz province and this crop made up 62.9 percent of total grain production in Kunduz in 2008. Rice is the second major staple food cultivated in Kunduz and amounted to 136 thousand MT, or 35.28 percent of all grain crops in the province.

|                      | Rice               | Wheat              | Barely           | Maize          | Mung bean         | Pea            | Red bean         |
|----------------------|--------------------|--------------------|------------------|----------------|-------------------|----------------|------------------|
| <b>Imam Sahib</b>    | 53,193,000         | 66,406,200         | 539,875          | 131,250        | 2,975,700         | 65,625         | 224,000          |
| <b>Khan Abad</b>     | 47,733,000         | 54,211,850         | 149,950          | 99,750         | 2,268,700         | 45,500         | 35,000           |
| <b>Aliabad</b>       | 9,282,000          | 26,343,450         | 116,375          | 78,750         | 1,505,000         | 19,250         | 112,700          |
| <b>Chardara</b>      | 6,090,000          | 23,484,650         | 168,700          | 126,000        | 1,575,000         | 26,250         | 245,000          |
| <b>Qalha-e-Zall</b>  | 3,192,000          | 24,568,600         | 256,550          | 194,250        | 1,298,400         | 17,500         | 294,000          |
| <b>Dashti Archi</b>  | 2,118,000          | 26,500,425         | 21,000           | 127,050        | 1,190,000         | 17,500         | 259,700          |
| <b>Kunduz Center</b> | 15,330,000         | 37,291,450         | 170,625          | 115,500        | 792,400           | 13,125         | 445,200          |
| <b>Total</b>         | <b>136,938,000</b> | <b>258,806,625</b> | <b>1,423,075</b> | <b>872,550</b> | <b>11,605,200</b> | <b>204,750</b> | <b>1,615,600</b> |

## Fruits

Annual fruit production surveyed in Kunduz province was estimated at 211,242 MT with a value of over \$84.7 million. Melons represented two-thirds, or 72.3 percent of all fruits grown and had the highest market value (\$55 million) in 2008. Watermelons were the second most grown fruit (39,183 MT) in Kunduz in 2008 but came third after grapes in terms of sales earned on the market.

| <b>Fruits</b> | <b>Tons</b>    | <b>Value USD \$</b>  |
|---------------|----------------|----------------------|
| Grape         | 15,918         | \$ 11,142,600        |
| Apple         | 123            | \$ 85,995            |
| Mulberries    | 66             | \$ 75,041            |
| Almond        | 359            | \$ 610,470           |
| Plum          | 387            | \$ 232,050           |
| Apricot       | 189            | \$ 113,190           |
| Peach         | 165            | \$ 99,120            |
| Pistachio     | 1,400          | \$ 7,196,000         |
| Melon         | 152,846        | \$ 55,024,380        |
| Water Melon   | 39,183         | \$ 9,403,800         |
| Other Fruits  | 606            | \$ 726,600           |
| <b>Total</b>  | <b>211,242</b> | <b>\$ 84,709,246</b> |

With the exception of pistachios, almost all of the 10 above listed fruits are grown in all districts of Kunduz province. Melons and watermelons made up 9 out of 10 (91 percent) of the total fruit production in Kunduz and are grown most intensively in Imam Sahib district. Aliabad is a major grape growing district, contributing over 15.6 million kg of all grapes grown in Kunduz. Moreover, only in Aliabad district was a significant amount of pistachios grown, bringing almost \$7.2 million in revenue to the province. The figures presented in the table below are in kg.

|               | Grape             | Apple          | Mulberries    | Almond         | Plum           | Apricot        | Peach          | Pistachio        | Melon              | W.Melon           | Other Fruit    |
|---------------|-------------------|----------------|---------------|----------------|----------------|----------------|----------------|------------------|--------------------|-------------------|----------------|
| Imam Sahib    | 56,000            | 31,500         | 19,625        | 63,000         | 148,750        | 36,750         | 19,600         | -                | 33,838,000         | 8,505,000         | 171,500        |
| Khan Abad     | 42,000            | 12,600         | 14,000        | 2,100          | 89,250         | 24,500         | 14,000         | -                | 18,287,500         | 7,297,500         | 21,000         |
| Aliabad       | 15,680,000        | 15,750         | 7,000         | 42,000         | 44,625         | 49,000         | 70,000         | 1,400,000        | 16,975,000         | 3,955,000         | 61,250         |
| Chardara      | 56,000            | 15,750         | 6,300         | 105,000        | 17,850         | 19,600         | 14,000         | -                | 26,355,000         | 5,372,500         | 61,250         |
| Qalha-e-Zall  | 28,000            | 15,750         | 7,000         | 84,000         | 23,800         | 19,600         | 14,000         | -                | 15,190,000         | 5,670,000         | 197,750        |
| Dashti Archi  | 14,000            | 15,750         | 5,600         | 31,500         | 44,625         | 19,600         | 19,600         | -                | 24,000,000         | 4,305,000         | 78,750         |
| Kunduz Center | 42,000            | 15,750         | 6,300         | 31,500         | 17,850         | 19,600         | 14,000         | -                | 18,200,000         | 4,077,500         | 14,000         |
| <b>Total</b>  | <b>15,918,000</b> | <b>122,850</b> | <b>65,825</b> | <b>359,100</b> | <b>386,750</b> | <b>188,650</b> | <b>165,200</b> | <b>1,400,000</b> | <b>152,845,500</b> | <b>39,182,500</b> | <b>605,500</b> |

## Vegetables

| <b>Vegetables</b>     | <b>Tons</b>    | <b>Value USD \$</b>  |
|-----------------------|----------------|----------------------|
| Potato                | 91,933         | \$ 25,741,170        |
| Onion                 | 30,581         | \$ 6,116,250         |
| Tomato                | 21,333         | \$ 10,666,250        |
| Okra                  | 134            | \$ 80,460            |
| Spinach               | 203            | \$ 89,320            |
| White Reddish         | 318            | \$ 127,200           |
| Carrot                | 4,208          | \$ 1,514,880         |
| Cauliflower & Cabbage | 147            | \$ 64,680            |
| Other Vegetable       | 311            | \$ 166,454           |
| <b>Total</b>          | <b>149,168</b> | <b>\$ 44,566,664</b> |

Vegetable production surveyed in Kunduz province during 2008 was estimated at 149,168 MT (worth almost \$44.5 million). Kunduz farmers cultivated more than 8 major types of vegetables but only 4 amounted to over 1,000 MT annually. Onions and potatoes represented 82 percent of the total vegetable production in the province.

Approximately 77.3 percent of the all Kunduz vegetables are grown in 3 districts (Aliabad, Khan Abad and Kunduz Center). Aliabad and Khan Abad produced one third of all onions; Khan Abad grew 42 percent of the province's tomatoes and Aliabad produced the highest amount of potatoes. Figures presented in the table below are in kg.

|               | Potato            | Onion             | Tomato            | Okra           | Spinach        | White radish   | Carrot           | Cauliflower and Cabbage | Other Veg      |
|---------------|-------------------|-------------------|-------------------|----------------|----------------|----------------|------------------|-------------------------|----------------|
| Imam Sahib    | 1,181,250         | 2,388,750         | 4,725,000         | 36,750         | 42,000         | 56,000         | 196,000          | 10,500                  | 39,130         |
| Khan Abad     | 1,055,250         | 5,775,000         | 4,287,500         | 15,300         | 35,000         | 38,000         | 140,000          | 10,500                  | 29,240         |
| Aliabad       | 80,325,000        | 5,827,500         | 2,485,000         | 10,500         | 14,000         | 42,000         | 2,640,000        | 105,000                 | 54,460         |
| Chardara      | 2,205,000         | 3,937,500         | 2,800,000         | 21,000         | 35,000         | 56,000         | 140,000          | -                       | 49,630         |
| Qalha-e-Zall  | 346,500           | 3,543,750         | 2,100,000         | 16,800         | 35,000         | 42,000         | 840,000          | -                       | 50,750         |
| Dashti Archi  | 2,331,000         | 4,593,750         | 1,750,000         | 12,750         | 14,000         | 28,000         | 112,000          | -                       | 38,045         |
| Kunduz Center | 4,488,750         | 4,515,000         | 3,185,000         | 21,000         | 28,000         | 56,000         | 140,000          | 21,000                  | 49,630         |
| <b>Total</b>  | <b>91,932,750</b> | <b>30,581,250</b> | <b>21,332,500</b> | <b>134,100</b> | <b>203,000</b> | <b>318,000</b> | <b>4,208,000</b> | <b>147,000</b>          | <b>310,885</b> |

## Fodder and industrial

Fodder and Industrial crop production surveyed in Kunduz province during 2008 was estimated at 21,625 MT, with a value of almost \$27.3 million. Kunduz farmers produced more than 5 major types of fodder and Industrial crops, with cotton representing 79.68 percent of the total industrial production in 2008.

| Fodder & Industrial | Tons          | Value USD \$         |
|---------------------|---------------|----------------------|
| Alfalfa             | 3,670         | \$ 4,184,256         |
| Clover              | 3,663         | \$ 4,688,000         |
| Cotton              | 11,389        | \$ 15,944,110        |
| Flax                | 2,218         | \$ 1,818,618         |
| Sesame              | 264           | \$ 411,684           |
| Other industrial    | 421           | \$ 227,273           |
| <b>Total</b>        | <b>21,625</b> | <b>\$ 27,273,941</b> |

Approximately 68.4 percent of the province's fodder was produced in 4 districts (Imam Sahib, Aliabad, Khan Abad and Kunduz Center) and half (50 percent) of cotton and 34 percent of other industrial crops in Kunduz are produced in Kunduz Center, Dashti Archi and Chardara districts.

|               | Alfalfa          | Clover           | Cotton            | Flax             | Sesame         | Other Ind      |
|---------------|------------------|------------------|-------------------|------------------|----------------|----------------|
| Imam Sahib    | 784,000          | 962,500          | 1,410,500         | 659,100          | 77,000         | 66,500         |
| Khan Abad     | 558,000          | 565,000          | 928,200           | 281,400          | 41,300         | 54,250         |
| Aliabad       | 490,000          | 595,000          | 1,688,050         | 273,525          | 37,100         | 61,250         |
| Chardara      | 529,200          | 271,250          | 1,961,050         | 286,650          | 34,300         | 26,250         |
| Qalha-e-Zall  | 343,000          | 218,750          | 1,665,300         | 259,875          | 28,000         | 70,000         |
| Dashti Archi  | 623,200          | 437,500          | 1,699,425         | 282,975          | 14,000         | 77,000         |
| Kunduz Center | 343,000          | 612,500          | 2,036,125         | 174,300          | 32,200         | 65,625         |
| <b>Total</b>  | <b>3,670,400</b> | <b>3,662,500</b> | <b>11,388,650</b> | <b>2,217,825</b> | <b>263,900</b> | <b>420,875</b> |

## Livestock

Based on the 2008 statistic survey, farmers raised 11 types of household livestock in Kunduz (See annex –V). The total number of household livestock maintained in Kunduz was calculated to be 1,398,025, not including 267,700 chickens, ducks and turkeys.

| Province     | District      | Total livestock  | Total Poultry  |
|--------------|---------------|------------------|----------------|
| Kunduz       | Aliabad       | 176,620          | 37,500         |
|              | Chardara      | 137,220          | 27,000         |
|              | Dashti Archi  | 220,505          | 27,500         |
|              | Imam sahib    | 290,870          | 98,500         |
|              | Khan Abad     | 207,245          | 7,000          |
|              | Qalaizal      | 215,750          | 42,300         |
|              | Kunduz center | 149,815          | 27,900         |
| <b>Total</b> |               | <b>1,398,025</b> | <b>267,700</b> |

Twenty-one percent of livestock were raised in Imam Sahib District and 30 percent in Archi and Qalaizal districts. Sheep are the most common livestock animals living in the province. Sheep and goats made up over half (53.72 percent) of all livestock in this province.

| Animals    | Cow     | Sheep   | Karakul | Goat   | Donkey  | Camel  | Horse  | Total     | Chicken | Turkey | Ducks | Total   |
|------------|---------|---------|---------|--------|---------|--------|--------|-----------|---------|--------|-------|---------|
| Heads      | 468,300 | 685,000 | 18,000  | 65,985 | 112,400 | 32,290 | 16,050 | 1,398,025 | 250,500 | 14,400 | 6,000 | 270,900 |
| Percentage | 33.50   | 49.00   | 1.29    | 4.72   | 8.04    | 2.31   | 1.15   | 100%      | 92.47   | 5.32   | 2.21  | 100%    |

## Annex 1

| S.# | Crops                 | Hectares | Metric Tons | Value USD \$   |
|-----|-----------------------|----------|-------------|----------------|
| 1   | Rice                  | 35,000   | 136,938     | \$ 136,938,000 |
| 2   | Weaht                 | 112,820  | 258,807     | \$ 160,460,108 |
| 3   | Barely                | 1,457    | 1,423       | \$ 597,694     |
| 4   | Miaze                 | 831      | 873         | \$ 471,177     |
| 5   | Mungbean              | 16,566   | 11,605      | \$ 4,177,872   |
| 6   | Pea                   | 234      | 205         | \$ 171,990     |
| 7   | Red bean              | 2,308    | 1,616       | \$ 1,938,720   |
| 8   | Potato                | 923      | 91,933      | \$ 25,741,170  |
| 9   | Onion                 | 1,399    | 30,581      | \$ 6,116,250   |
| 10  | Tomato                | 1,219    | 21,333      | \$ 10,666,250  |
| 11  | Pepper                | 9        | 66          | \$ 52,920      |
| 12  | Okra                  | 32       | 134         | \$ 80,460      |
| 13  | Spinach               | 29       | 203         | \$ 89,320      |
| 14  | Garlic                | 15       | 88          | \$ 61,555      |
| 15  | Mint                  | 10       | 20          | \$ 9,802       |
| 16  | Round Red Reddish     | 13       | 96          | \$ 28,875      |
| 17  | White Redish          | 23       | 318         | \$ 127,200     |
| 18  | Carrot                | 61       | 4,208       | \$ 1,514,880   |
| 19  | Cauliflower & Cabbige | 14       | 147         | \$ 64,680      |
| 20  | Leek                  | 10       | 27          | \$ 10,780      |
| 21  | Grape                 | 2,885    | 15,918      | \$ 11,142,600  |
| 22  | Apple                 | 39       | 123         | \$ 85,995      |
| 23  | Mulberries            | 91       | 66          | \$ 75,041      |
| 24  | Almond                | 171      | 359         | \$ 610,470     |
| 25  | Plum                  | 130      | 387         | \$ 232,050     |
| 26  | Apricot               | 77       | 189         | \$ 113,190     |
| 27  | Peach                 | 59       | 165         | \$ 99,120      |
| 28  | Pistachio             | 2,000    | 1,400       | \$ 7,196,000   |
| 29  | Melon                 | 4,957    | 152,846     | \$ 55,024,380  |
| 30  | Water Melon           | 1,175    | 39,183      | \$ 9,403,800   |
| 31  | Alfalfa               | 398      | 3,670       | \$ 4,184,256   |
| 32  | Clover                | 414      | 3,663       | \$ 4,688,000   |
| 33  | Cotton                | 5,006    | 11,389      | \$ 15,944,110  |
| 34  | Flax                  | 2,174    | 2,218       | \$ 1,818,618   |
| 35  | Sesame                | 377      | 264         | \$ 411,684     |
| 36  | Other Vegetable       | 10       | 14          | \$ 2,522       |
| 37  | Other Fruits          | 566      | 606         | \$ 726,600     |
| 38  | Other industrial      | 481      | 421         | \$ 227,273     |

## ANNEX 2

# Ranking of Kunduz Province districts by tons surveyed annually

|                    | District      | Tons           | Hectares       | Value USD \$       | % Total tons |
|--------------------|---------------|----------------|----------------|--------------------|--------------|
| 1                  | Emam Sahib    | 179,060        | 49,518         | \$ 118,931,321.00  | 22.57%       |
| 2                  | Khanabad      | 144,162        | 44,193         | \$ 97,538,543.00   | 18.17%       |
| 3                  | Aliabad       | 170,406        | 24,275         | \$ 81,848,667.00   | 21.48%       |
| 4                  | Chardara      | 76,092         | 17,002         | \$ 39,719,344.00   | 9.59%        |
| 5                  | Qalha-e-Zall  | 60,631         | 15,900         | \$ 32,277,744.00   | 7.64%        |
| 6                  | Dashte Archi  | 70,782         | 19,195         | \$ 35,756,556.00   | 8.92%        |
| 7                  | Kunduz Center | 92,365         | 23,900         | \$ 55,233,235.00   | 11.64%       |
| <b>Grand Total</b> |               | <b>793,498</b> | <b>193,983</b> | <b>461,305,410</b> | <b>100%</b>  |

## Annex 3 Harvest seasons for Kunduz

### Agricultural crops surveyed

| Crops                 | Jan | Feb | Mar | Apr | May           | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Tons            |
|-----------------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----------------|
| Rice                  |     |     |     |     |               |     |     |     |     |     |     |     | 136,938         |
| Weaht                 |     |     |     |     |               |     |     |     |     |     |     |     | 258,807         |
| Barely                |     |     |     |     |               |     |     |     |     |     |     |     | 1,423           |
| Miaze                 |     |     |     |     |               |     |     |     |     |     |     |     | 873             |
| Mungbean              |     |     |     |     |               |     |     |     |     |     |     |     | 11,605          |
| Pea                   |     |     |     |     |               |     |     |     |     |     |     |     | 205             |
| Red bean              |     |     |     |     |               |     |     |     |     |     |     |     | 1,616           |
| Potato                |     |     |     |     |               |     |     |     |     |     |     |     | 91,933          |
| Onion                 |     |     |     |     |               |     |     |     |     |     |     |     | 30,581          |
| Tomato                |     |     |     |     |               |     |     |     |     |     |     |     | 21,333          |
| Pepper                |     |     |     |     |               |     |     |     |     |     |     |     | 66              |
| Okra                  |     |     |     |     |               |     |     |     |     |     |     |     | 134             |
| Spinach               |     |     |     |     |               |     |     |     |     |     |     |     | 203             |
| Garlic                |     |     |     |     |               |     |     |     |     |     |     |     | 88              |
| Mint                  |     |     |     |     |               |     |     |     |     |     |     |     | 20              |
| Round Red Reddish     |     |     |     |     |               |     |     |     |     |     |     |     | 96              |
| White Redish          |     |     |     |     |               |     |     |     |     |     |     |     | 318             |
| Carrot                |     |     |     |     |               |     |     |     |     |     |     |     | 4,208           |
| Cauliflower & Cabbige |     |     |     |     |               |     |     |     |     |     |     |     | 147             |
| Leek                  |     |     |     |     |               |     |     |     |     |     |     |     | 27              |
| Grape                 |     |     |     |     |               |     |     |     |     |     |     |     | 15,918          |
| Apple                 |     |     |     |     |               |     |     |     |     |     |     |     | 123             |
| Mulberries            |     |     |     |     |               |     |     |     |     |     |     |     | 66              |
| Almond                |     |     |     |     |               |     |     |     |     |     |     |     | 359             |
| Plum                  |     |     |     |     |               |     |     |     |     |     |     |     | 387             |
| Apricot               |     |     |     |     |               |     |     |     |     |     |     |     | 189             |
| Peach                 |     |     |     |     |               |     |     |     |     |     |     |     | 165             |
| Pistachio             |     |     |     |     |               |     |     |     |     |     |     |     | 1,400           |
| Melon                 |     |     |     |     |               |     |     |     |     |     |     |     | 152,846         |
| Water Melon           |     |     |     |     |               |     |     |     |     |     |     |     | 39,183          |
| Alfalfa               |     |     |     |     |               |     |     |     |     |     |     |     | 3,670           |
| Clover                |     |     |     |     |               |     |     |     |     |     |     |     | 3,663           |
| Cotton                |     |     |     |     |               |     |     |     |     |     |     |     | 11,389          |
| Flax                  |     |     |     |     |               |     |     |     |     |     |     |     | 2,218           |
| Sesame                |     |     |     |     |               |     |     |     |     |     |     |     | 264             |
| Other Vegetable       |     |     |     |     |               |     |     |     |     |     |     |     | 14              |
| Other Fruits          |     |     |     |     |               |     |     |     |     |     |     |     | 606             |
| Other industrial      |     |     |     |     |               |     |     |     |     |     |     |     | 421             |
|                       |     |     |     |     | Planting time |     |     |     |     |     |     |     | Harvesting time |

## Annex NO. 4:

NAIS/ASAP 2008

| DISTRICT PROFILE:                |                                | Kundoze Center |  |
|----------------------------------|--------------------------------|----------------|--|
| <b>1</b>                         | <b>DEMOGRAPHICS</b>            |                |  |
| Region:                          | Northern                       |                |  |
| Province:                        | Kundoze                        |                |  |
| District:                        | Kundoze Center                 |                |  |
| Villages:                        | 214                            |                |  |
| Households:                      | 33549                          |                |  |
| Estimated population:            | 284,392                        |                |  |
| <b>2</b>                         | <b>Land</b>                    |                |  |
| Sharecroppers, %                 | 10%                            |                |  |
| Arable land, jeribs              | 166,610                        |                |  |
| Arable land, hectares (/5)       | 33,322                         |                |  |
| Grazing land, jeribs             | 342750                         |                |  |
| Geographic area, Km2             | 642.47                         |                |  |
| Landowner, %                     | 55                             |                |  |
| Irrigated land area, hectares    | 31,922                         |                |  |
| Rainfed land in use,hectars      | 1,400                          |                |  |
| <b>3</b>                         | <b>Primary Crops</b>           |                |  |
| Spring wheat, hectares           | 700                            |                |  |
| Fall wheat, hectares             | 14,713                         |                |  |
| Rice, hectares                   | 3650                           |                |  |
| Mung bean, hectares              | 1132                           |                |  |
| Melon+water melon, hectares      | 720                            |                |  |
| Cotton hectares                  | 895                            |                |  |
| Other industrial crops, hectares | 329                            |                |  |
| Other grains, hectares           | 906                            |                |  |
| Other vegetables,hectares        | 669                            |                |  |
| Other fruits,hectares            | 108                            |                |  |
| <b>4</b>                         | <b>Livestock</b>               |                |  |
| Livestock owners, %              | 10                             |                |  |
| Beef cattle & Draught oxen, #    | 21000                          |                |  |
| Dairy cow, #                     | 49,500                         |                |  |
| Sheep & Goats, #                 | 69,600                         |                |  |
| Donkey, #                        | 7650                           |                |  |
| Horses, #                        | 600                            |                |  |
| Checkens & Turkey, #             | 27,900                         |                |  |
| Camels, #                        | 1,465                          |                |  |
| Kuchi, (seasonal families),#     |                                |                |  |
| Camels, #                        |                                |                |  |
| Kuchi sheep, #                   |                                |                |  |
| Kuchi goats, #                   |                                |                |  |
| Kuchi other, #                   |                                |                |  |
| <b>5</b>                         | <b>Transportation</b>          |                |  |
| Distance to center, km           | 12                             |                |  |
| Time to center, minutes          | 30                             |                |  |
| Cost to center, Afs              | 30                             |                |  |
| Truck cost to center, Afs        | 7/kg                           |                |  |
| District roads                   |                                |                |  |
| Provincial roads                 |                                |                |  |
| Accessibility                    |                                |                |  |
| <b>6</b>                         | <b>Markets</b>                 |                |  |
| Provincial                       | All year                       |                |  |
| District, General, day           | Mon. Thur.                     |                |  |
| District, livestock, day         | Mon. Thur.                     |                |  |
| Traders/assemblers               | yes,                           |                |  |
| <b>7</b>                         | <b>Water</b>                   |                |  |
| Rain fed                         |                                | 15             |  |
| Kariz                            |                                |                |  |
| Canals                           |                                | 85%            |  |
| Other sources                    |                                |                |  |
| Bored wells, #                   |                                |                |  |
| Access/irrigated water           |                                | 75%            |  |
| <b>8</b>                         | <b>Infrastructure</b>          |                |  |
| Access/drinking water            |                                | 3%             |  |
| Schools                          |                                | 120            |  |
| Electricity costs, Afs/KWH       |                                | 2              |  |
| Cell phone access                |                                | yes            |  |
| Health clinic, #                 |                                | 1              |  |
| VFUs, #                          |                                | 2              |  |
| <b>9</b>                         | <b>Livelihood</b>              |                |  |
| Agro-horticulture sector, %      |                                | 75             |  |
| Livestock sub-sector, %          |                                | 10             |  |
| Bussiness and Trade %            |                                | 5              |  |
| Government and NGO %             |                                | 6              |  |
| Daily Labor %                    |                                | 4              |  |
| <b>10</b>                        | <b>Enterprises</b>             |                |  |
| General shops, #                 |                                | 160            |  |
| Food service,#                   |                                | 110            |  |
| Flour mills,#                    |                                | 25             |  |
| Shoe repair,#                    |                                | 120            |  |
| Blacksmith,#                     |                                | 60             |  |
| Oil extraction,#                 |                                | 15             |  |
| Butcher shops, #                 |                                | 100            |  |
| Carpet weaving, #                |                                | 70             |  |
| <b>11</b>                        | <b>Agricultural Facilities</b> |                |  |
| Artificial Insimilation          |                                | Yes,           |  |
| Rentable Ag Machinary            |                                | Yes,           |  |
| Improved wheat seed              |                                | Yes,           |  |
| Fruit Nurseries, #               |                                |                |  |
| Credit facility                  |                                | Yes,           |  |
| Poultry farm, #                  |                                |                |  |
| Pest control                     |                                | Yes,           |  |
| Cool storage, #                  |                                |                |  |
| Green houses, #                  |                                |                |  |
| <b>12</b>                        | <b>Household (HH) Indices</b>  |                |  |
| Arable land/HH, jeribs           |                                | 4.966          |  |
| Grazing land/HH, jeribs          |                                | 10.216         |  |
| Irrigated land/HH, jeribs        |                                | 0.951          |  |
| Rainfed land/HH, jeribs          |                                | 0.041          |  |
| Total livestock/HH, #            |                                | 2.39           |  |
| Sheep&goats/HH, #                |                                | 2.074          |  |
| Poultry/HH, #                    |                                | 0.831          |  |
| <b>13</b>                        | <b>Check</b>                   |                |  |
| Households/village:              |                                | 156.771        |  |
| Population/household:            |                                | 8.476          |  |
| Schools/village:                 |                                | 0.56           |  |
| Number of bored wells/village:   |                                | 0              |  |
| Number of enterprise/village:    |                                | 3.084          |  |

## Annex 5

### Number of Household Animals and Poultry in Kunduz Province

2008

| No | Province | District      | Domestic Animals Statistic |        |         |         |        |        |         |       | Poultry |          |       |         |         |
|----|----------|---------------|----------------------------|--------|---------|---------|--------|--------|---------|-------|---------|----------|-------|---------|---------|
|    |          |               | Oxen                       | Cows   | Sheep   | Karakol | Goats  | Horses | Donkeys | Camal | Total   | Cock Hen | Ducks | Turkeys | Total   |
| 1  | Kunduz   | Aliabad       | 15,000                     | 42,300 | 83,200  | -       | 7,360  | 3,000  | 22,600  | 3,160 | 176,620 | 35,000   | -     | 2,500   | 37,500  |
| 2  |          | Chardara      | 6,000                      | 6,300  | 103,400 | 8,000   | 3,550  | 400    | 4,350   | 5,220 | 137,220 | 25,000   | -     | 2,000   | 27,000  |
| 3  |          | Dashtiarchi   | 27,200                     | 63,450 | 93,700  | -       | 9,910  | 400    | 16,500  | 9,345 | 220,505 | 25,000   | -     | 2,500   | 27,500  |
| 4  |          | Imamsahib     | 15,000                     | 81,650 | 155,100 | -       | 9,750  | 3,000  | 21,400  | 4,970 | 290,870 | 95,000   | 3,500 | 2,000   | 100,500 |
| 5  |          | Khanabad      | 20,100                     | 51,400 | 83,600  | -       | 18,645 | 2,650  | 29,500  | 1,350 | 207,245 | 4,500    | 2,500 | 1,200   | 8,200   |
| 6  |          | Qalaizal      | 8,000                      | 61,400 | 104,700 | 10,000  | 8,470  | 6,000  | 10,400  | 6,780 | 215,750 | 40,000   | -     | 2,300   | 42,300  |
| 7  |          | Konduz center | 21,000                     | 49,500 | 61,300  | -       | 8,300  | 600    | 7,650   | 1,465 | 149,815 | 26,000   | -     | 1,900   | 27,900  |

# Annex 6

Province: Kunduz Arable land survey cultivated, forest and pasture land in Hectare 2008

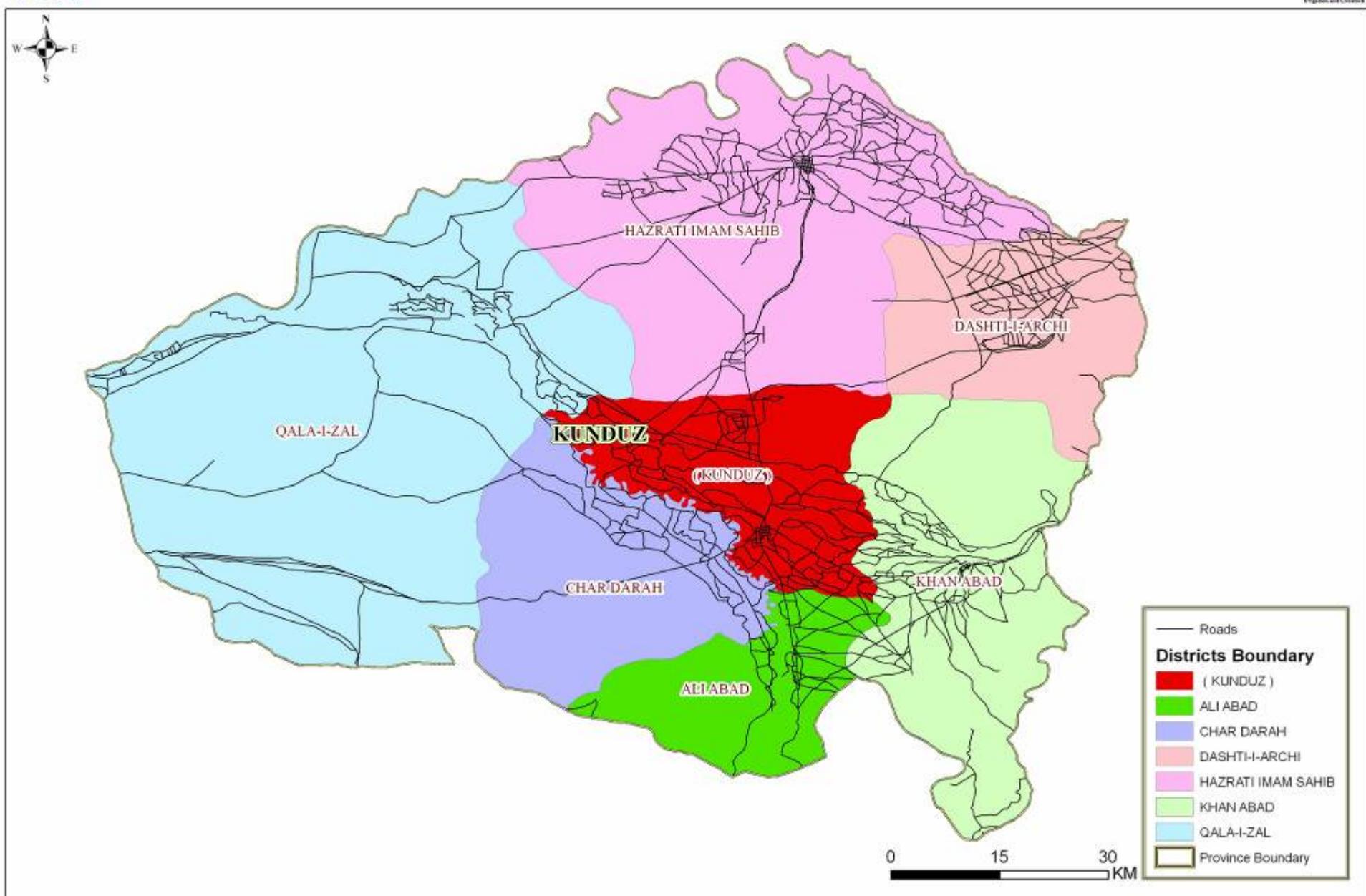
| No    | Province | District      | Village | Cultivated Land |            |         | Fruit orch | Farrows & vegetable land | Cereal Crops | Forage Crop land | Forest Land | Pasture Land | Barel and | Mount ain | Total land |         |
|-------|----------|---------------|---------|-----------------|------------|---------|------------|--------------------------|--------------|------------------|-------------|--------------|-----------|-----------|------------|---------|
|       |          |               |         | rainfed         | Irrigat ed | Total   |            |                          |              |                  |             |              |           |           |            |         |
| 1     | Konduz   | Imamsahib     | 211     | 2,000           | 70,000     | 72,000  | 385        | 2,814                    | 45,909       | 190              | 20,000      | 23,050       | -         | 23,500    | 138,550    |         |
| 2     |          | Khanabad      | 150     | 22,960          | 39,060     | 62,020  | 385        | 1,195                    | 45,909       | 190              | -           | 23,050       | -         | -         | 85,070     |         |
| 3     |          | Qalaizal      | 49      | 416             | 19,963     | 20,379  | 122        | 670                      | 9,935        | 75               | -           | 18,450       | -         | -         | 38,829     |         |
| 4     |          | Chardara      | 106     | 332             | 20,156     | 20,488  | 140        | 422                      | 10,685       | 105              | -           | 195,589      | -         | -         | 216,077    |         |
| 5     |          | Aliabad       | 66      | 14,992          | 17,500     | 32,492  | 2,199      | 670                      | 15,344       | 130              | 10,117      | 9,074        | -         | -         | 51,683     |         |
| 6     |          | Dashtiarchi   | 107     | 2,100           | 31,759     | 33,859  | 186        | 850                      | 7,667        | 142              | 200         | 41,600       | -         | -         | 75,659     |         |
| 7     |          | Konduz center | 214     | 1,400           | 31,922     | 33,322  | 250        | 850                      | 30,822       | 175              | -           | 68,550       | -         | -         | 101,872    |         |
| Total |          |               |         | 903             | 44,200     | 230,360 | 274,560    | 3,667                    | 7,471        | 166,271          | 1,007       | 30,317       | 379,363   | -         | 23,500     | 707,740 |

## **Annex No. 7:**

## Crop Calendar

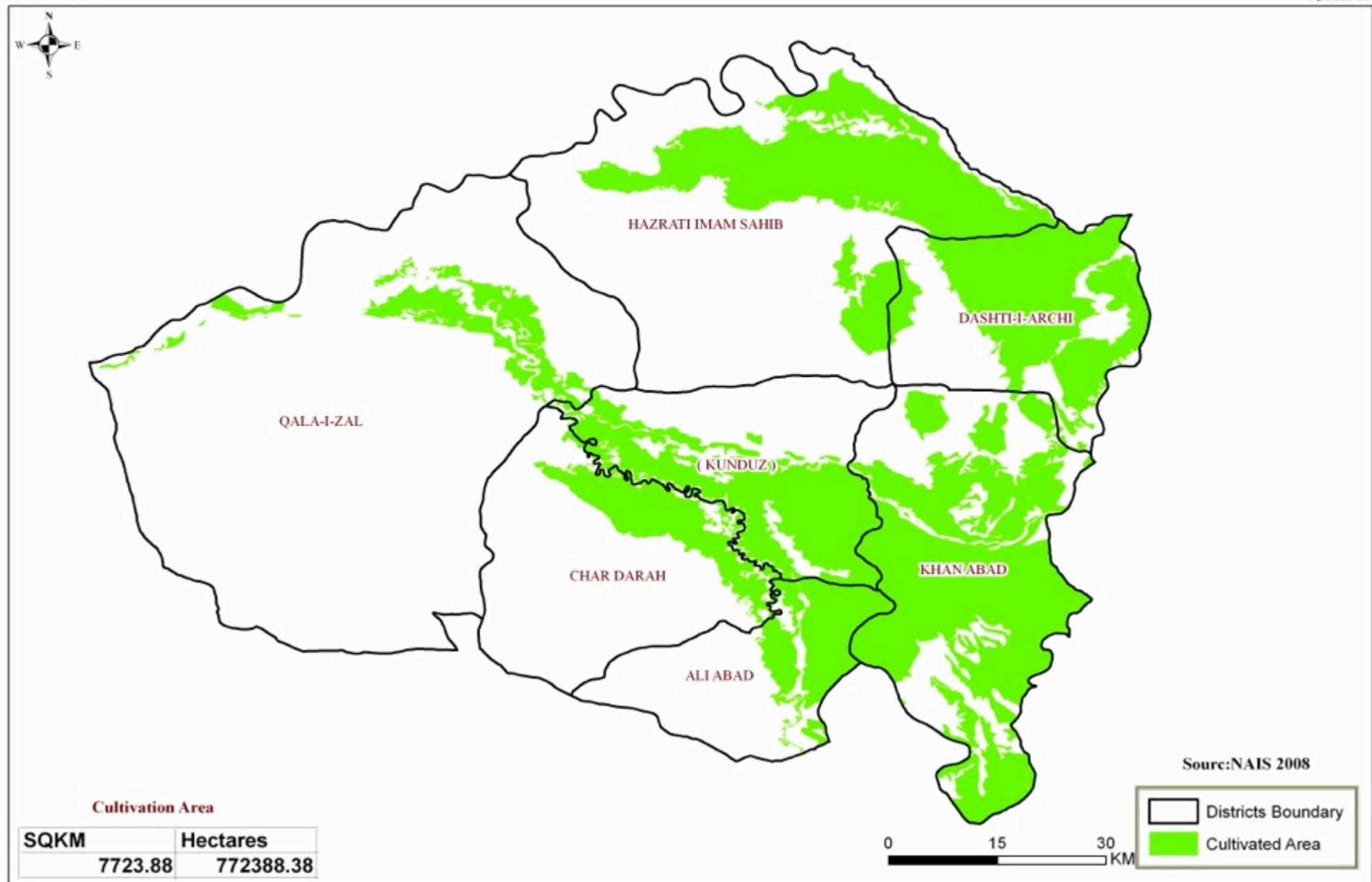
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# Kunduz Province Standard Map



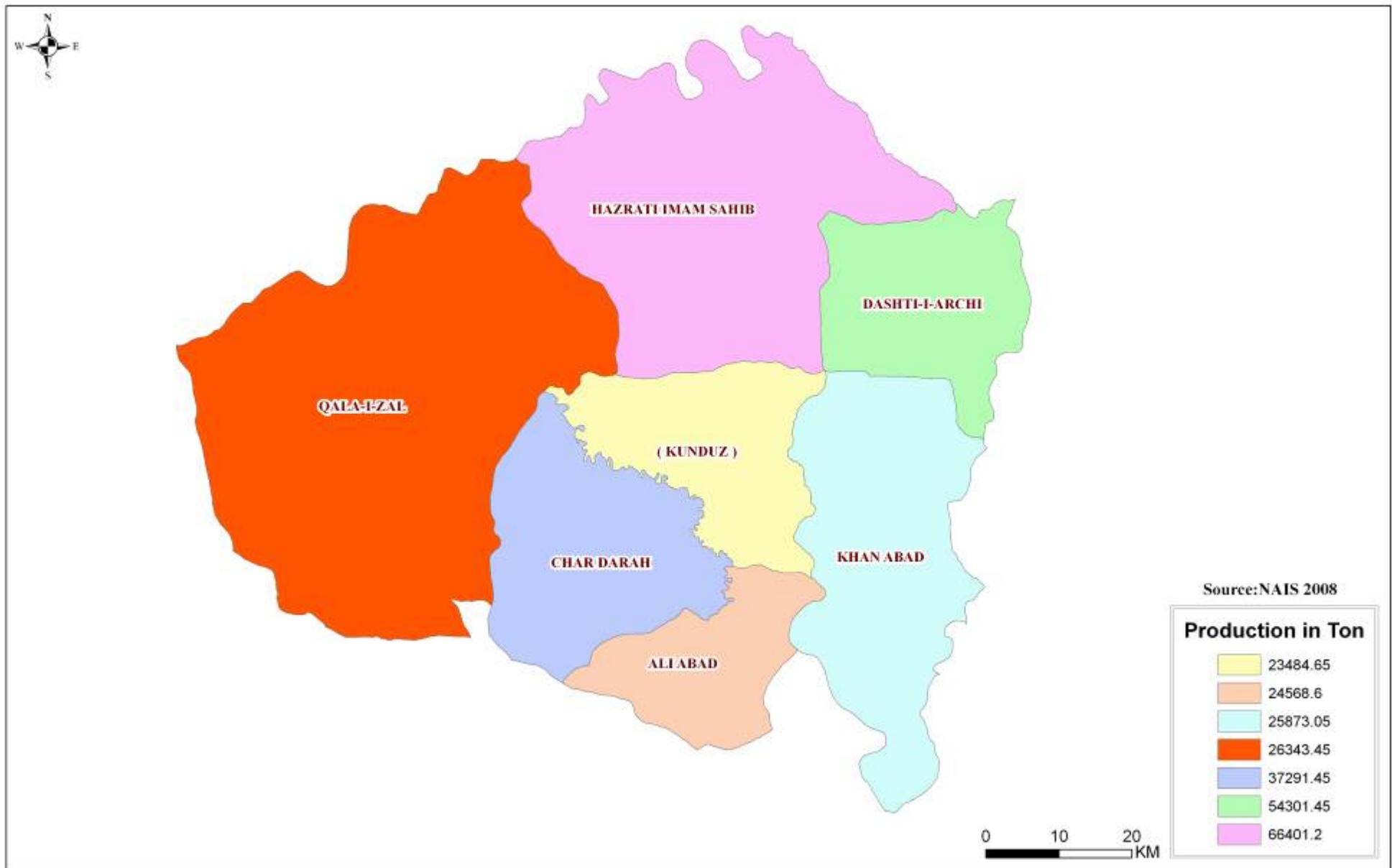


## Kunduz Province Cultivation Area

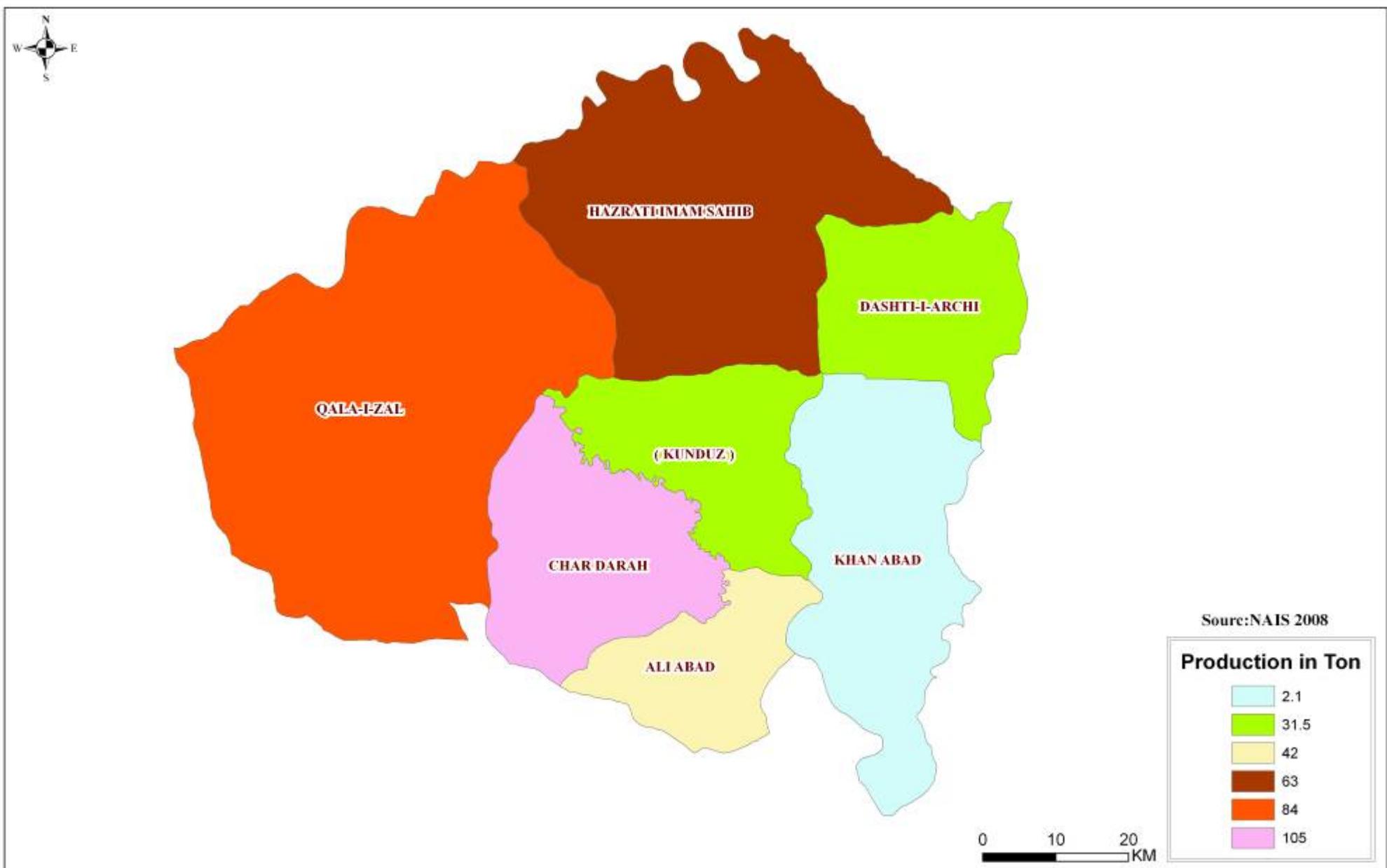




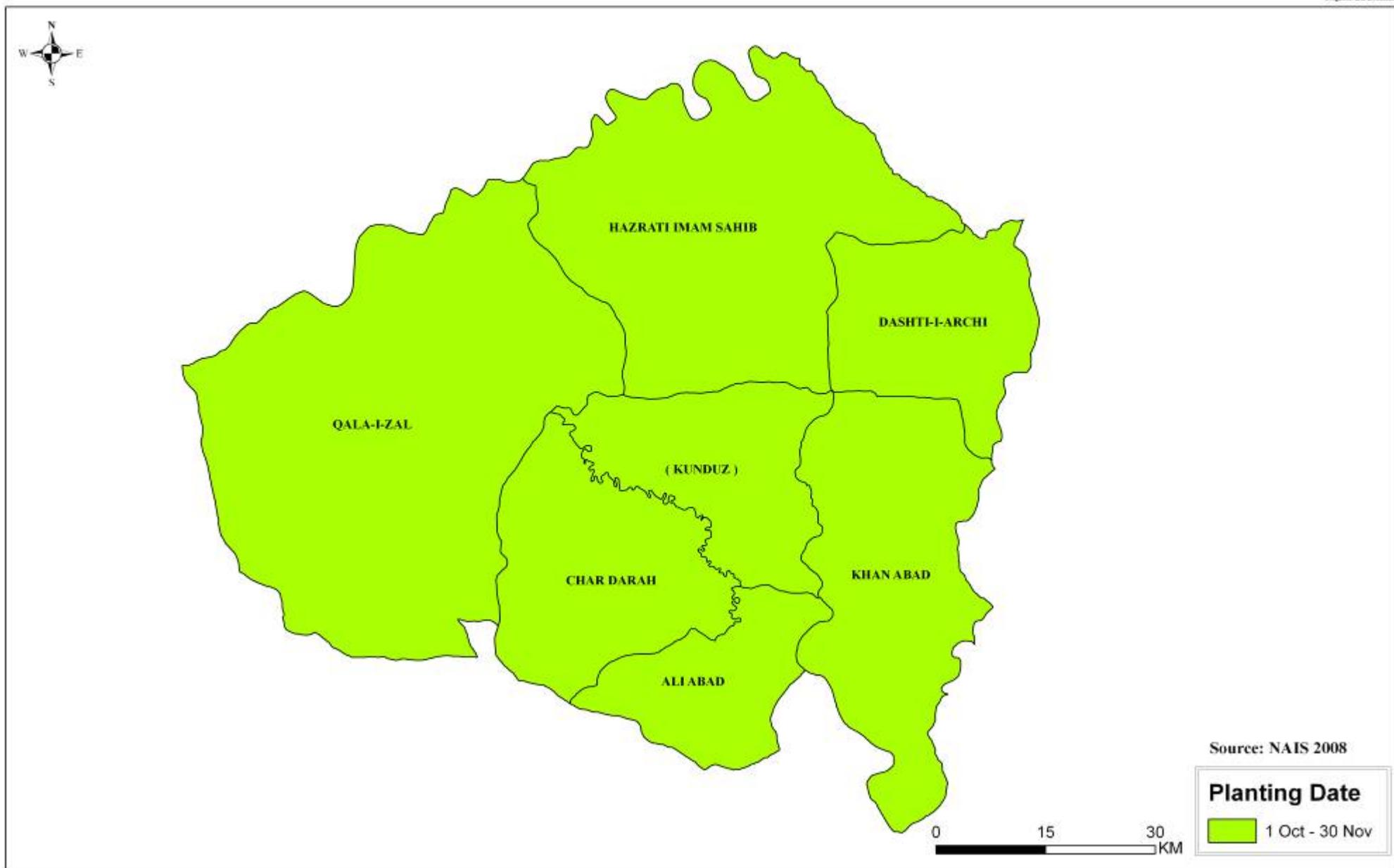
## Kunduz Province Crop Productin (Wheat)



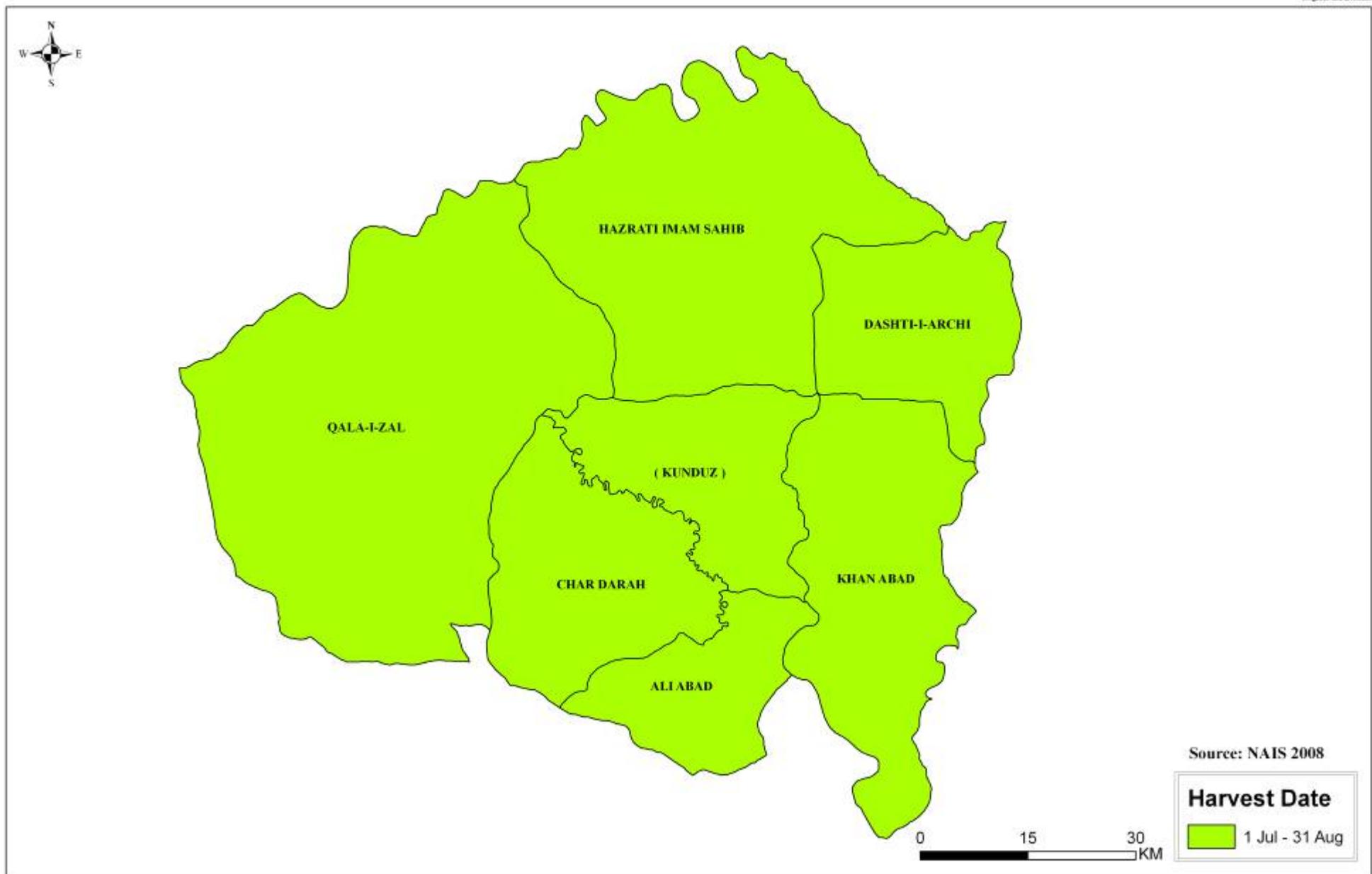
## Kunduz Province Crop Productin (Almond)



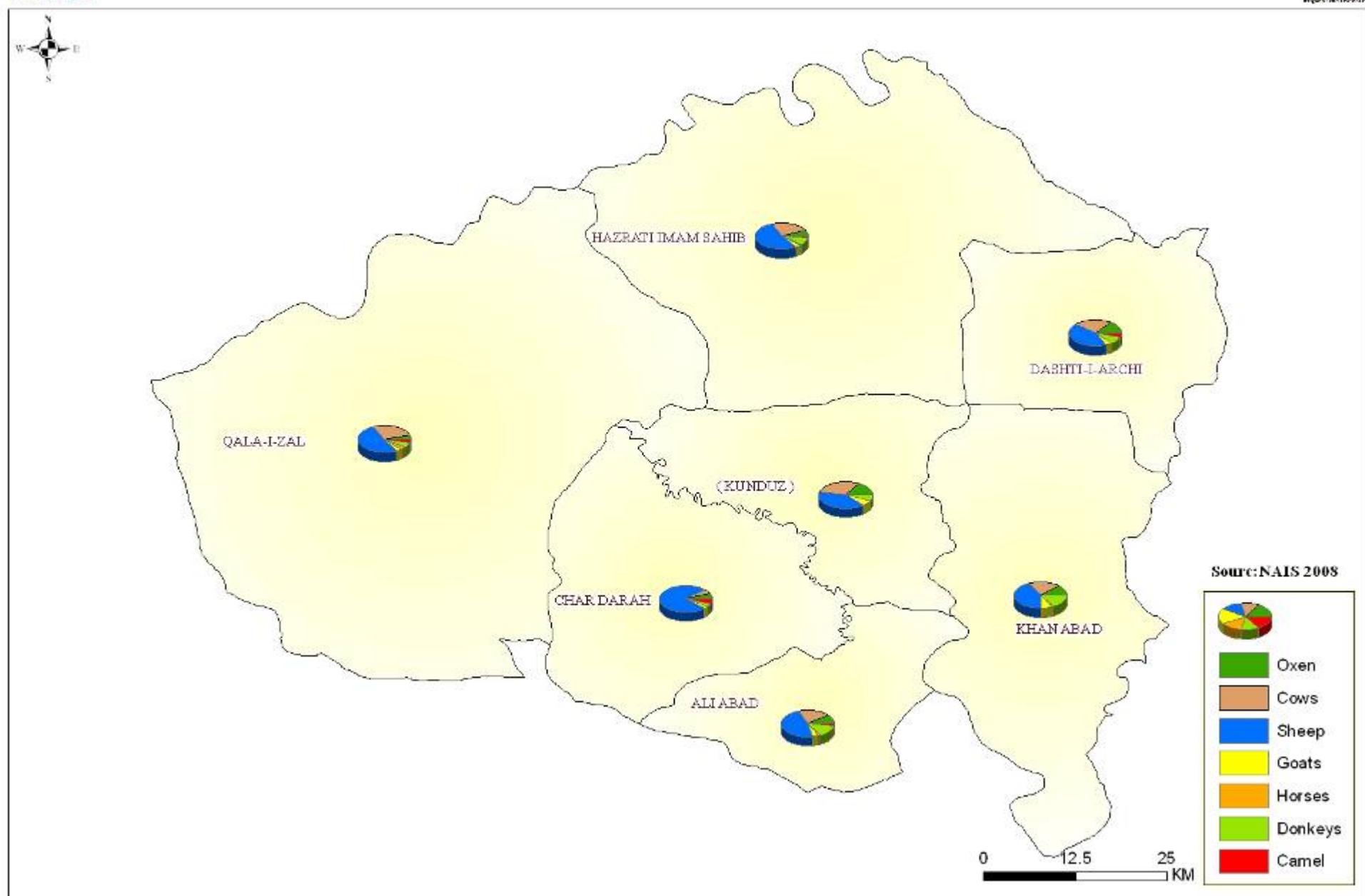
## Kunduz Province Crop calendar( Onion)



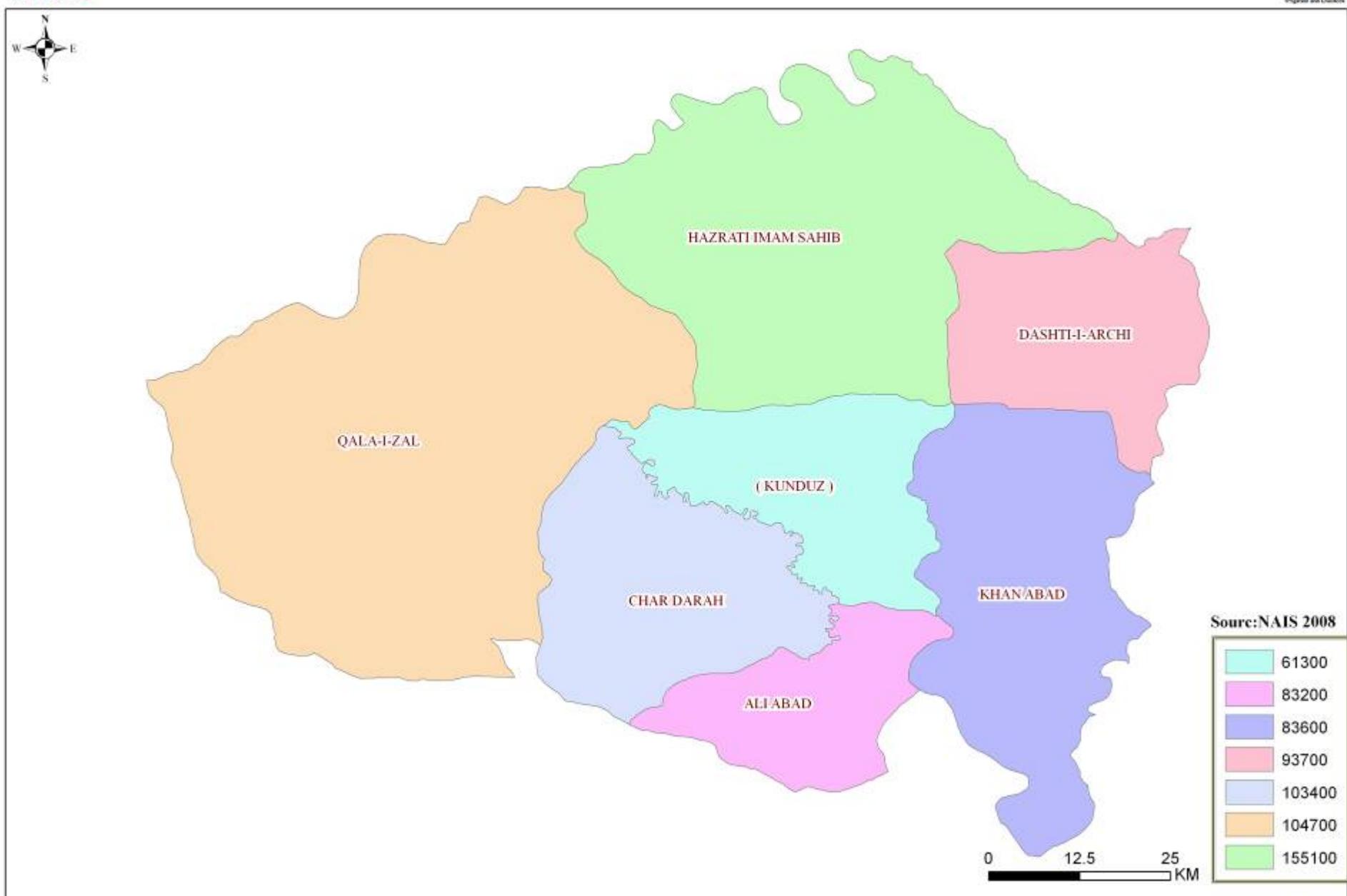
## Kunduz Province Crop calendar(Onion)



## Kunduz Province Livestock



## Kunduz Province Livestock(Sheep)



## Kunduz Province Livestock

