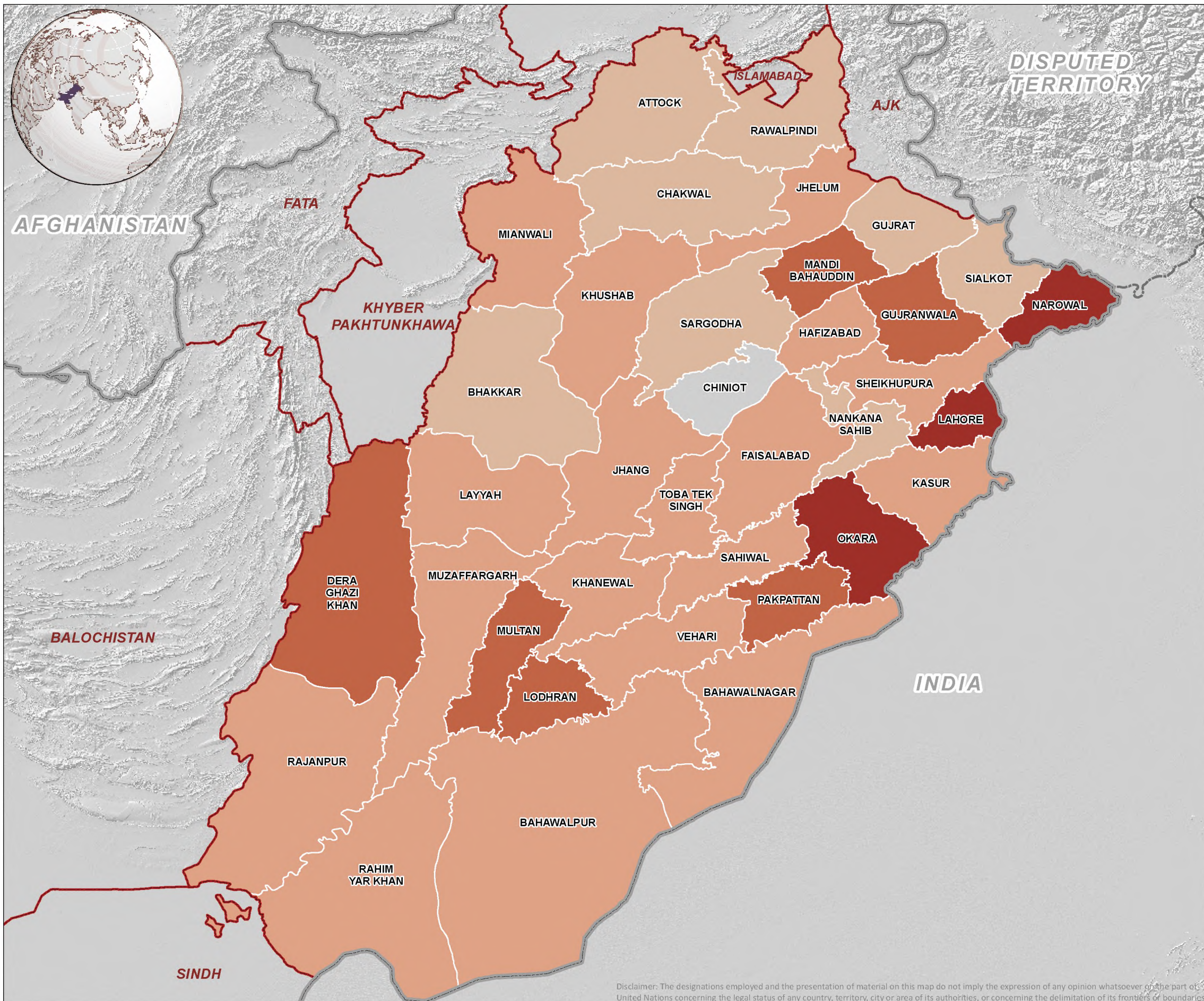




**SECTION 3**  
**MAPPING FERTILIZER OFFTAKE DATA**



# TOTAL OFFTAKE OF UREA



## Map Legend

- Administrative limits**
- Country
  - Province
  - District

**District-wise total offtake of Urea (kg/acre)**

- ≤ 300
- 301 - 600
- 601 - 900
- 901 - 1200

## About Map

This map shows overall total urea offtake for all five major crops if grown on a field in same year. However, actual usage will be variable and lesser depending on the crop(s) grown. The data indicates similar trends as the total use of urea inferred from RFUA. The higher offtake of urea in three districts (Narowal, Lahore and Okara) does not necessarily reflect its usage in these districts. The urea available in these districts is presumably consumed in the adjoining districts, and explains the comparable trends of NFDC offtake with the RFUA patterns.

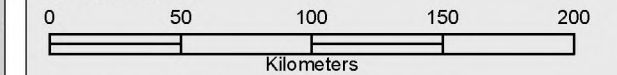
## Data Sources

FAO, GAUL, NFDC fertilizer offtake data (2012-2013)

## Map Scale and Datum

Nominal scale: 1:2,698,500 at A3

Datum: WGS 84



Date: 08 June 2016

Created by: IM Unit, FAO Pakistan

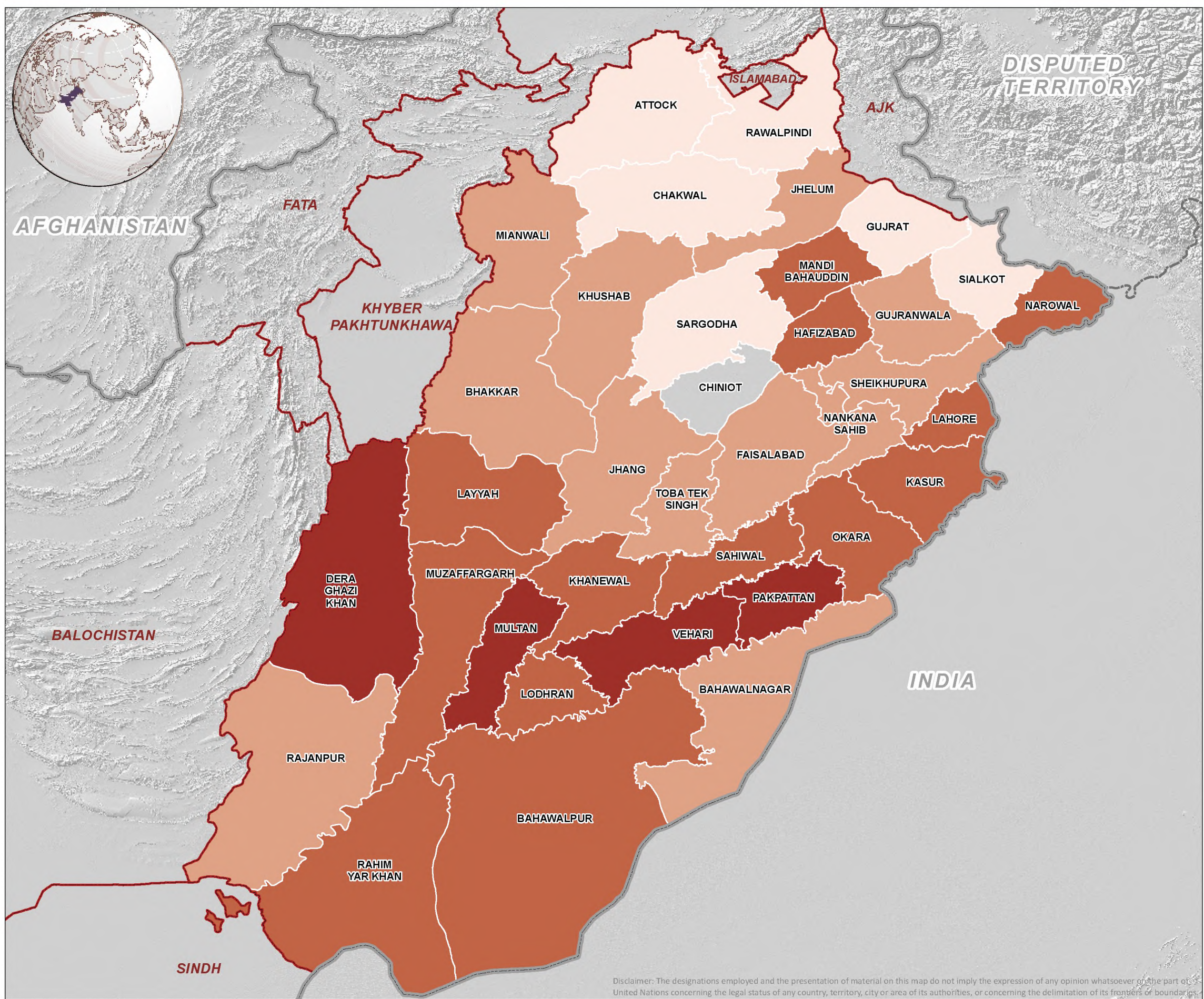
Map Number: PAK\_Soil Fertility Atlas\_Punjab\_Urea\_8.6\_20150910



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# TOTAL OFFTAKE OF DI-AMMONIUM PHOSPHATE (DAP)



**Map Legend**

**Administrative limits**

- Country
- Province
- District

**District-wise total offtake of DAP (kg/acre)**

- ≤ 50
- 51 - 100
- 101 - 150
- 151 - 200

**About Map**

This map shows overall total DAP offtake for all five major crops if grown on a field in same year. However, actual usage will be variable and lesser depending on the crop(s) grown. The data indicates relatively higher DAP usage in cotton growing areas of Southern Punjab. The overall trends are similar as the total use of DAP inferred from RFUA.

**Data Sources**

FAO, GAUL, NFDC fertilizer offtake data (2012-2013)

**Map Scale and Datum**

Nominal scale: 1:2,698,500 at A3

Datum: WGS 84

Date: 08 June 2016

Created by: IM Unit, FAO Pakistan

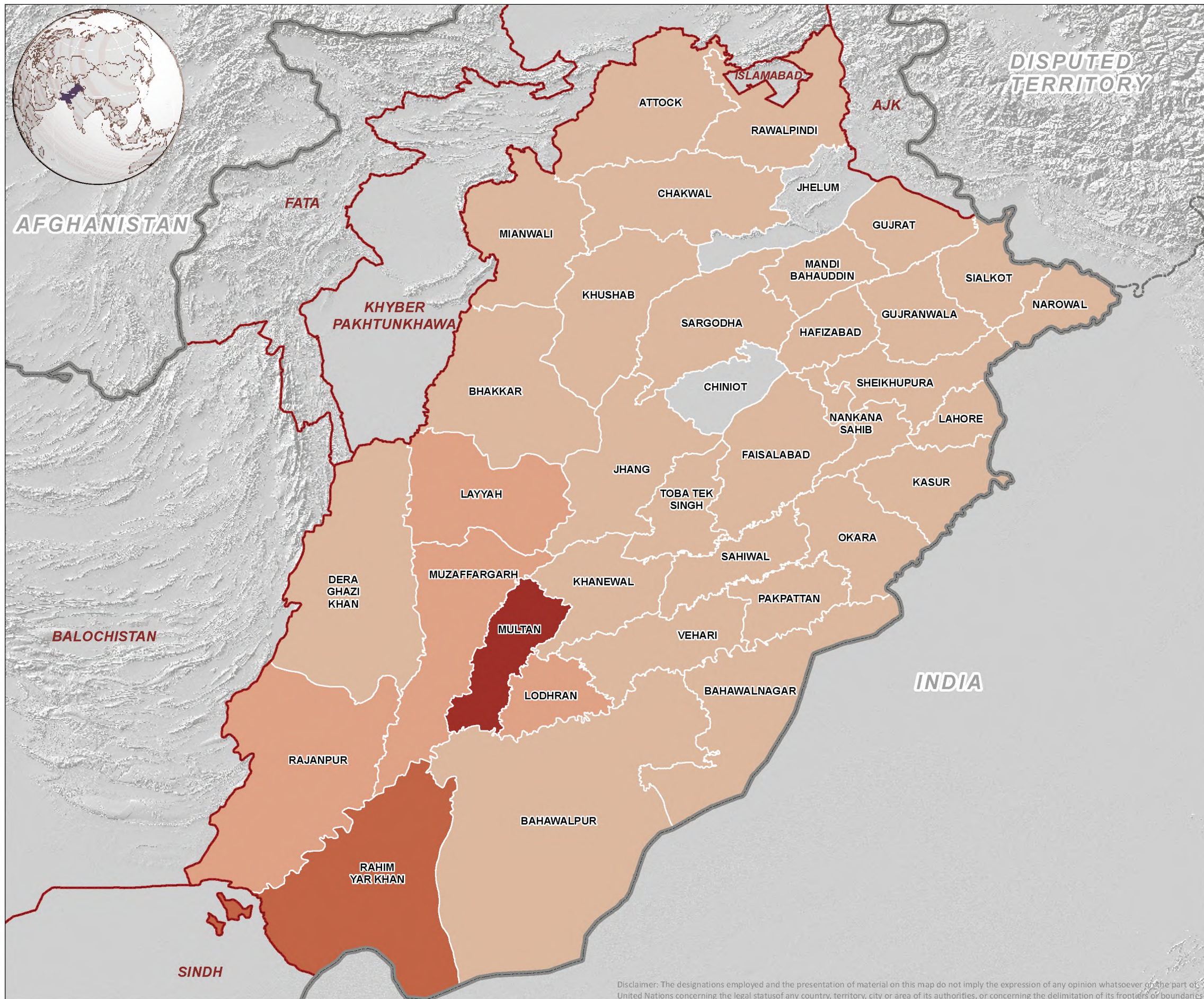
Map Number: PAK\_Soil Fertility Atlas\_Punjab\_DAP\_10.6\_20150910



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# TOTAL OFFTAKE OF CALCIUM AMMONIUM NITRATE (CAN)



## Map Legend

### Administrative limits

- Country
- Province
- District

### District-wise total Offtake of CAN (kg/acre)

- ≤ 50
- 51 - 100
- 101 - 150
- 151 - 200
- No significant data

## About Map

This map shows overall total CAN offtake for all five major crops if grown on a field in same year. However, actual usage will be variable and lesser depending on the crop(s) grown. The overall CAN use is low in most of the districts except for a few cotton growing districts in Southern Punjab. Further, higher use of CAN observed in four districts in mixed cropping zone inferred from RFUA is not in accordance with the total CAN offtake.

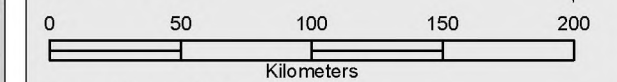
## Data Sources

FAO, GAUL, NFDC fertilizer offtake data (2012-2013)

## Map Scale and Datum

Nominal scale: 1:2,698,500 at A3

Datum: WGS 84



Date: 08 June 2016

Created by: IM Unit, FAO Pakistan

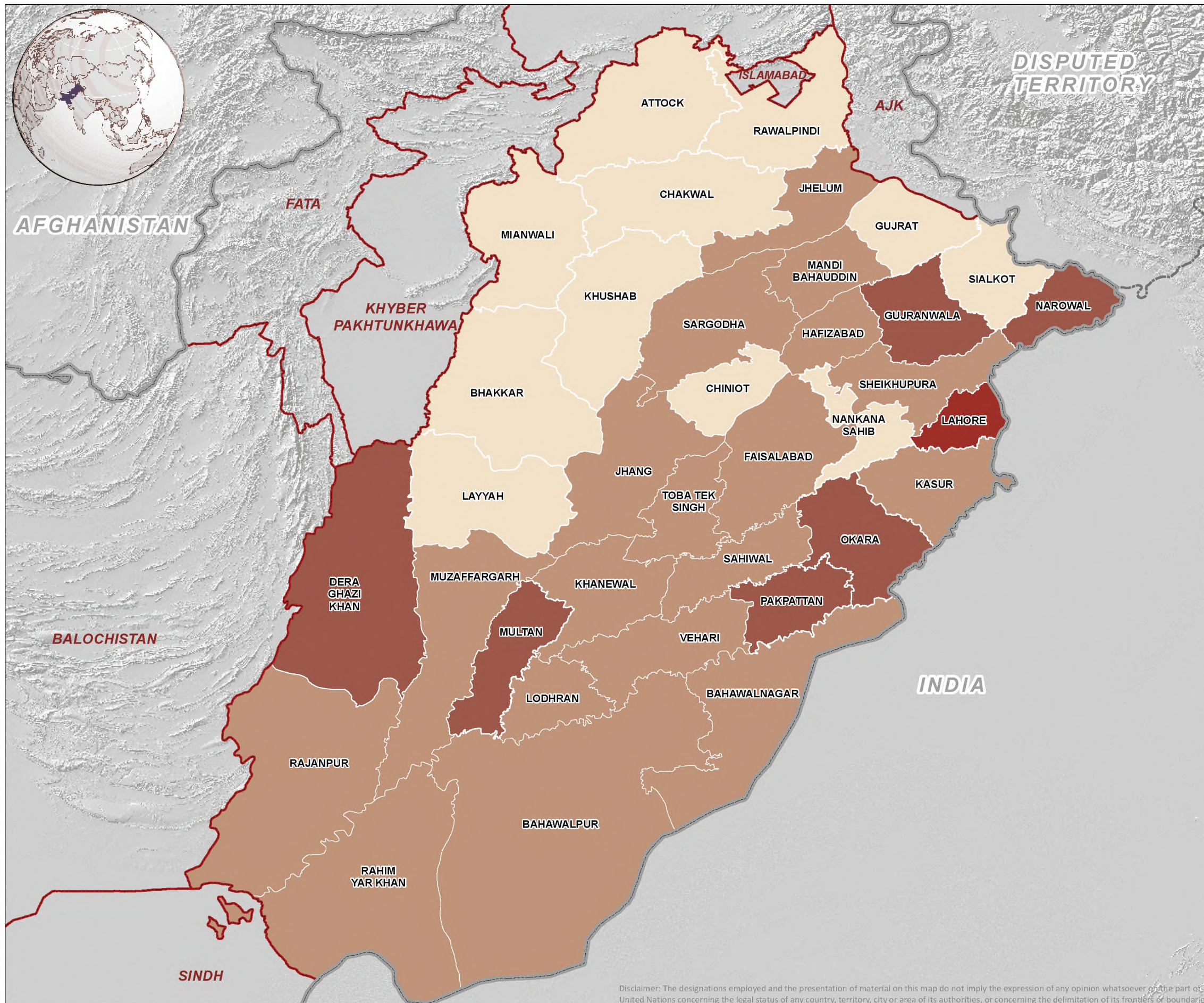
Map Number: PAK\_Soil Fertility Atlas\_Punjab\_CAN\_9.6\_20150910



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# DISTRICT-WISE USE OF NITROGEN



## Map Legend

### Administrative limits

- Country
- Province
- District

### Offtake of Nitrogen (Kg/acre)

- ≤ 35.0
- 35.1 - 70.0
- 70.1 - 105.0
- 105.1 - 135.0

## About Map

The map shows total offtake of Nitrogen irrespective of the fertilizer source in each district. Relatively lower N offtake is obvious in Thal and rainfed areas. Overall, medium offtake is seen in most districts of the Punjab; while high offtake in districts like Lahore, may not necessarily reflect its usage in the same district.

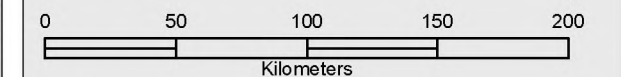
## Data Sources

FAO, GAUL, NFDC Annual Fertilizer Review (2012-2013)

## Map Scale and Datum

Nominal scale: 1:2,698,500 at A3

Datum: WGS 84



Date: 08 June 2016

Created by: IM Unit, FAO Pakistan

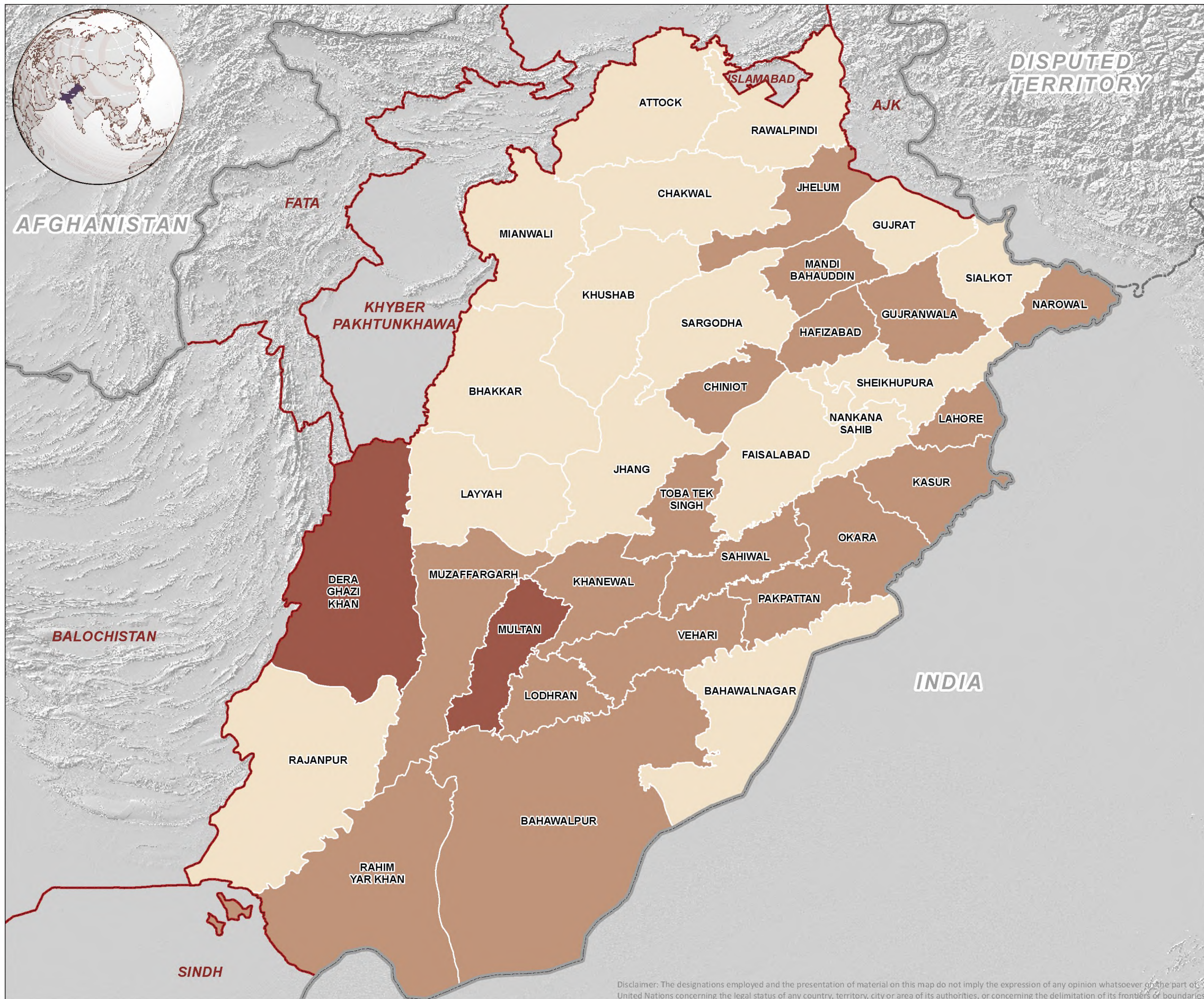
Map Number: PAK\_Soil Fertility Atlas\_Punjab\_N\_11.1\_20150910



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# DISTRICT-WISE USE OF PHOSPHORUS



## Map Legend

### Administrative limits

- Country
- Province
- District

### Offtake of Phosphorus (Kg/acre)

- ≤ 10.0
- 10.1 - 20.0
- 20.1 - 30.0

## About Map

The map shows offtake of Phosphorus in each district. Higher P offtake is clearly shown in most cotton growing districts followed by some districts each in mixed cropping and rice zones.

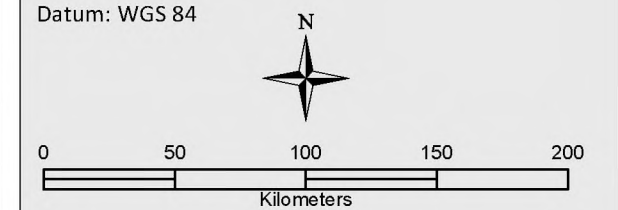
## Data Sources

FAO, GAUL, NFDC Annual Fertilizer Review (2012-2013)

## Map Scale and Datum

Nominal scale: 1:2,698,500 at A3

Datum: WGS 84



Date: 13 June 2016

Created by: IM Unit, FAO Pakistan

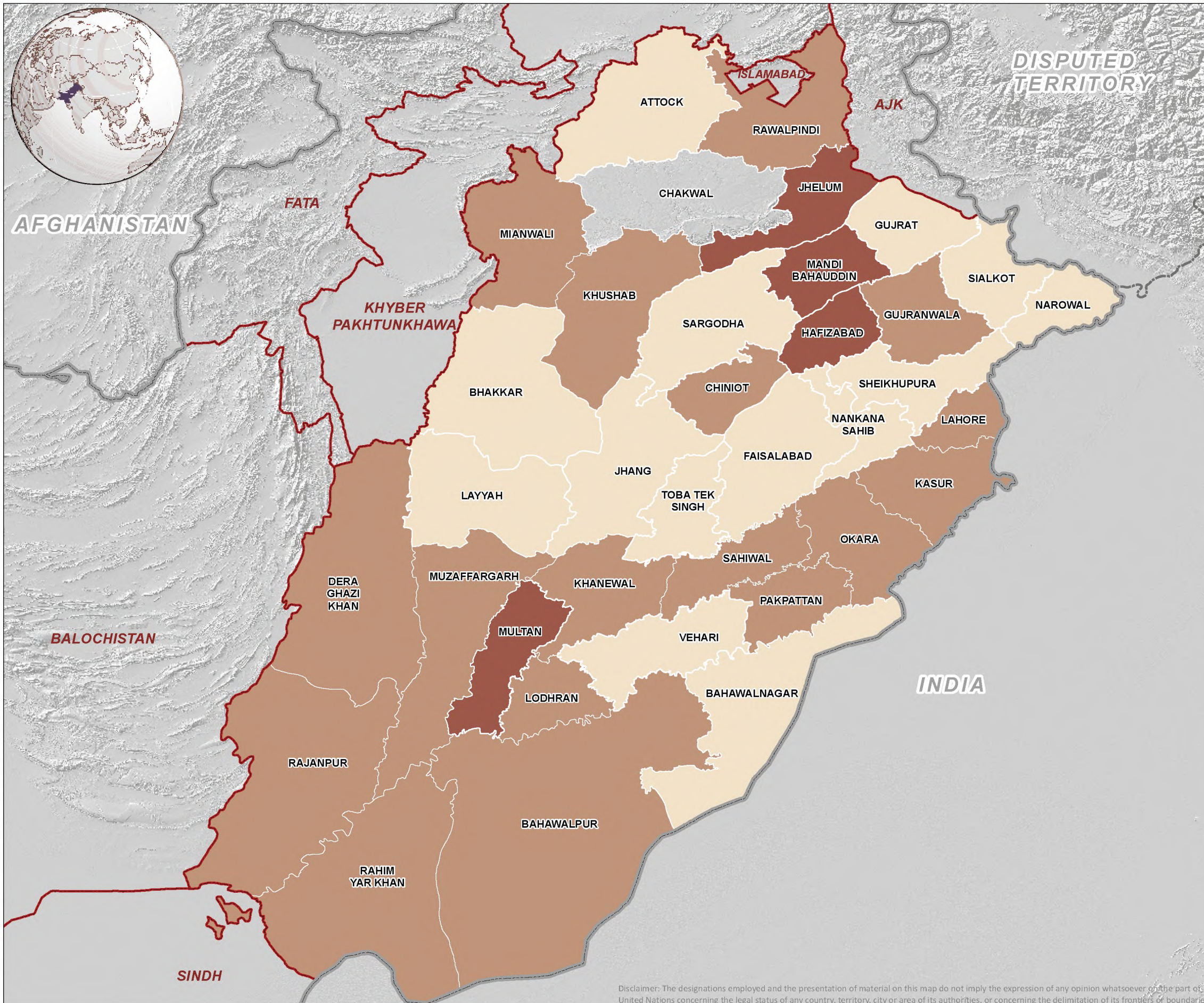
Map Number: PAK\_Soil Fertility Atlas\_Punjab\_P\_11.2\_20150910



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# DISTRICT-WISE USE OF POTASSIUM



## Map Legend

### Administrative limits

- Country
- Province
- District

### Offtake of Potassium (Kg/acre)

- < 0.20
- 0.21 - 0.40
- 0.41 - 0.62
- No significant data

## About Map

The map shows off-take of Potassium in each district. Relatively higher off-take is indicated in Jhelum, Mandi-Bahauddin, and Hafizabad districts followed by core cotton growing areas. In most rice and mixed cropping districts K off-take is on the lower side.

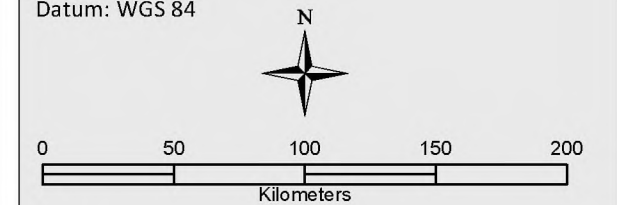
## Data Sources

FAO, GAUL, NFDC Annual Fertilizer Review (2012-2013)

## Map Scale and Datum

Nominal scale: 1:2,698,500 at A3

Datum: WGS 84



Date: 13 June 2016

Created by: IM Unit, FAO Pakistan

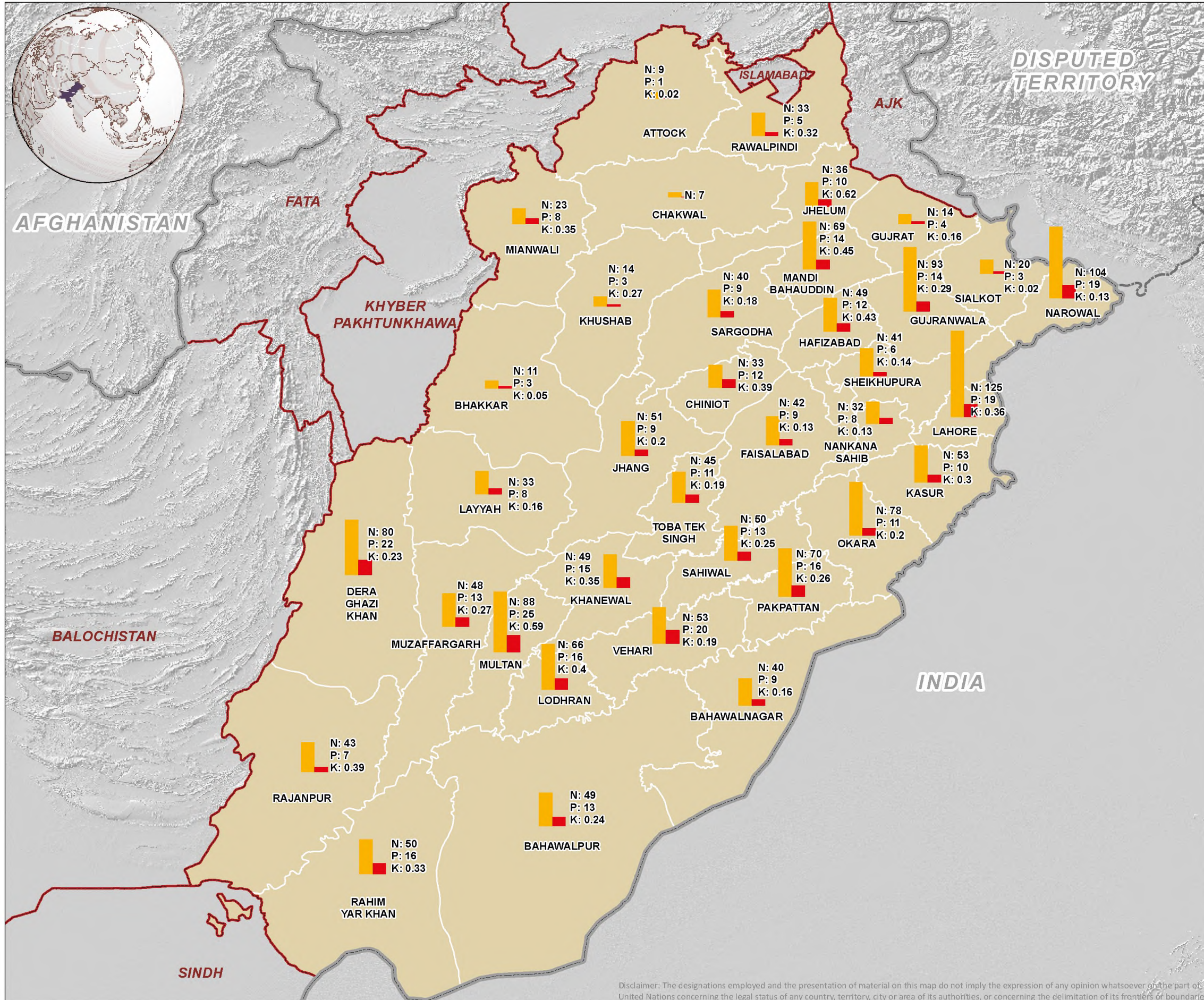
Map Number: PAK\_Soil Fertility Atlas\_Punjab\_K\_66\_20150910



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# NPK USAGE RATES IN PUNJAB



## Map Legend

### Administrative limits

- Country
- Province
- District

### NPK rates (kg/acre)

- Nitrogen
- Phosphorus

## About Map

The map shows relative usage of NPK, indicating that invariably all farmers use N and P but with a highly variable N:P ratio. Further, use of K is not common and needs attention. Similar trends regarding K use are evident from RFUA data. Since K use rate is non-significant, so it has been shown in the map legend.

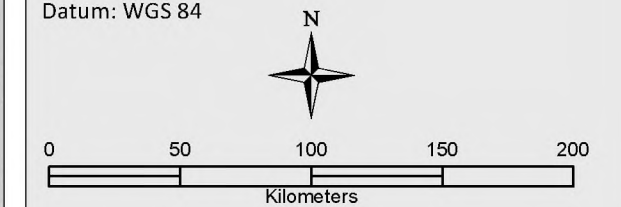
## Data Sources

FAO, GAUL, NFDC Annual Fertilizer Review (2012-2013)

## Map Scale and Datum

Nominal scale: 1:2,698,500 at A3

Datum: WGS 84



Date: 13 June 2016

Created by: IM Unit, FAO Pakistan

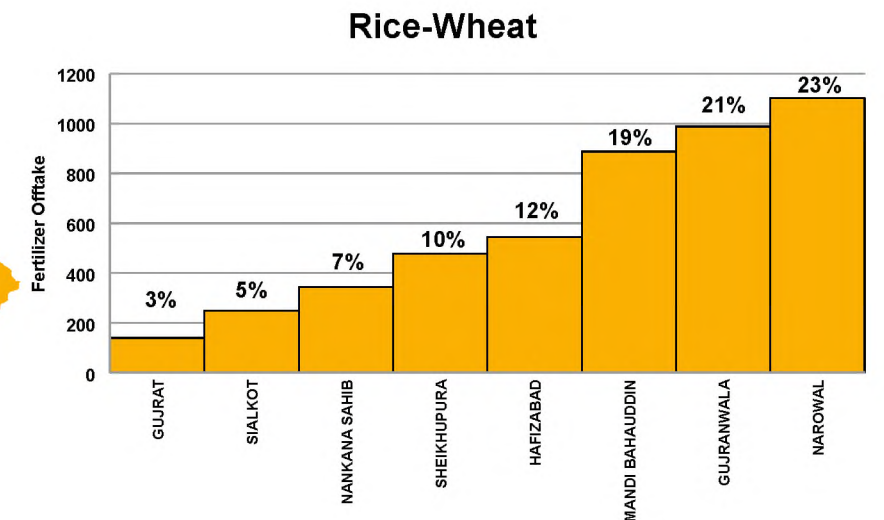
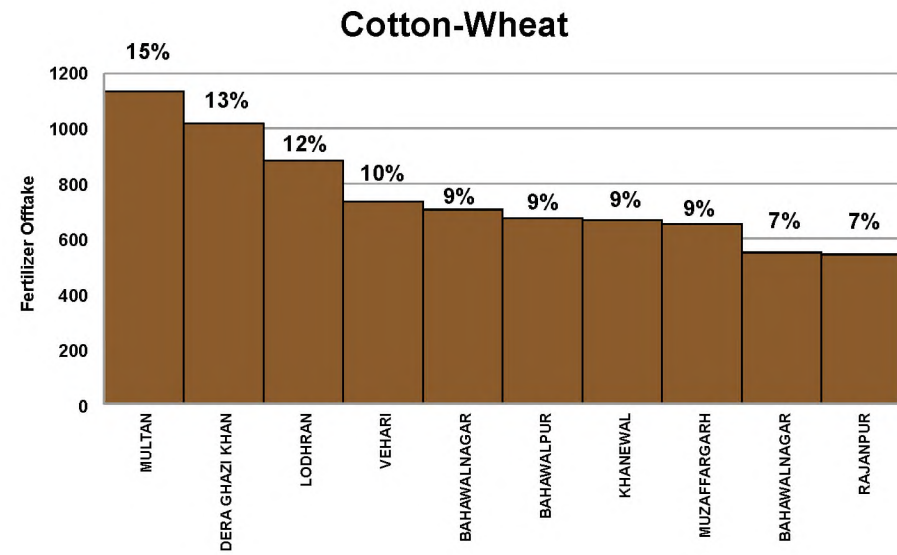
Map Number: PAK\_Soil Fertility Atlas\_Punjab\_NPK\_11.4\_20150910



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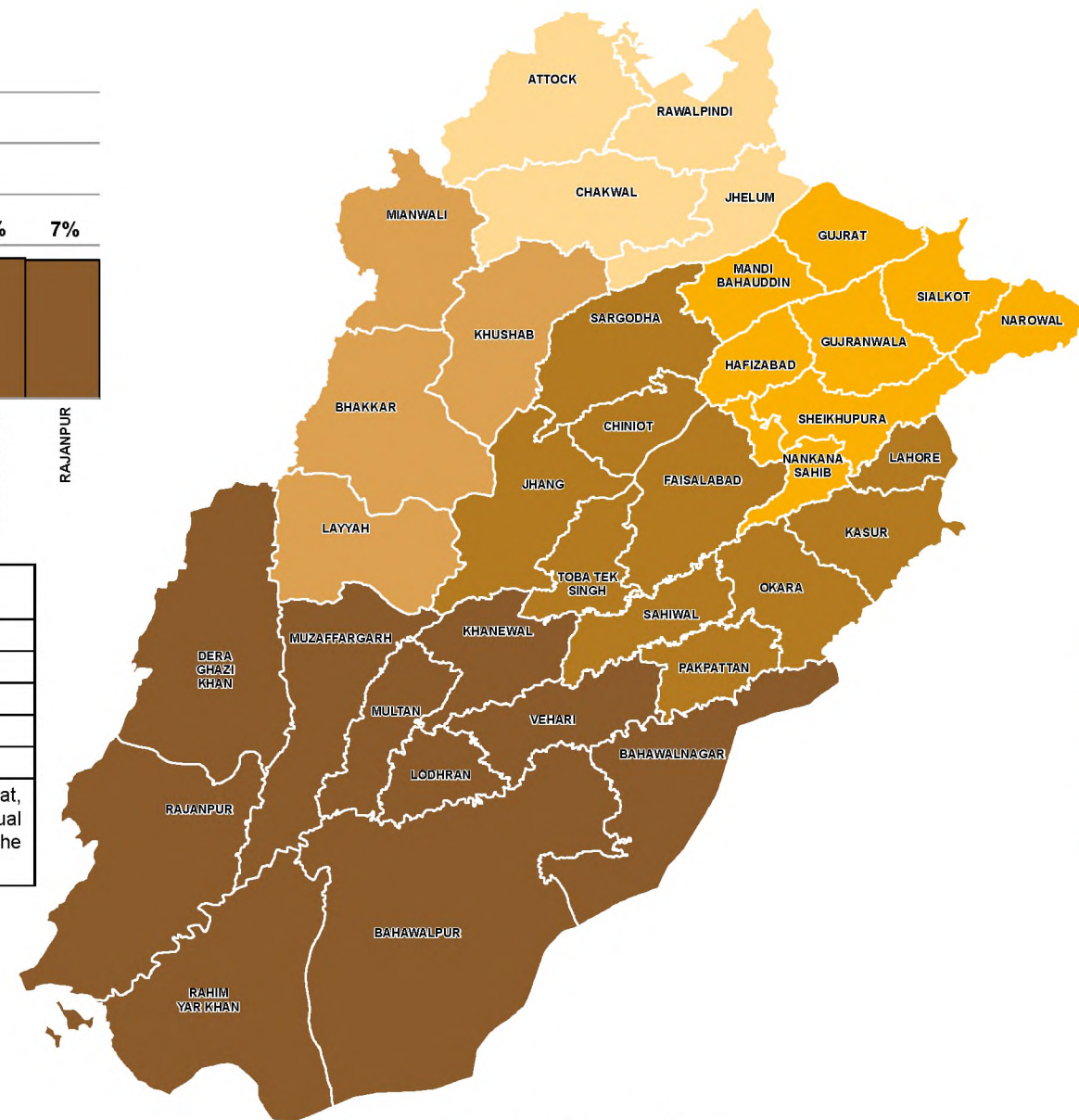


# REGION-WISE COMPARATIVE FERTILIZER OFFTAKE IN PUNJAB



Region	Total fertilizer offtake*
Cotton-Wheat	7,563
Mixed Crops	6,818
Rice-Wheat	4,730
Pulses-Wheat	1,655
Maize-Wheat-Oilseeds	749

\*The total offtake was disaggregated from NFDC offtake data on area basis for Wheat, Rice, Maize, Cotton and Sugarcane, if grown in the same field in a year. However, actual usage will vary depending on the crops(s) sown. This is to note that no area for the selected commodities in Mixed Crops was reported in Chiniot district.



- Cotton-Wheat
- Mixed Crops
- Rice-Wheat
- Pulses-Wheat (Thal Area)
- Maize-Wheat-Oilseeds (Rainfed Area)

Note: The numbers in % above each bar represent each district's share in total offtake of fertilizer in the particular region.

