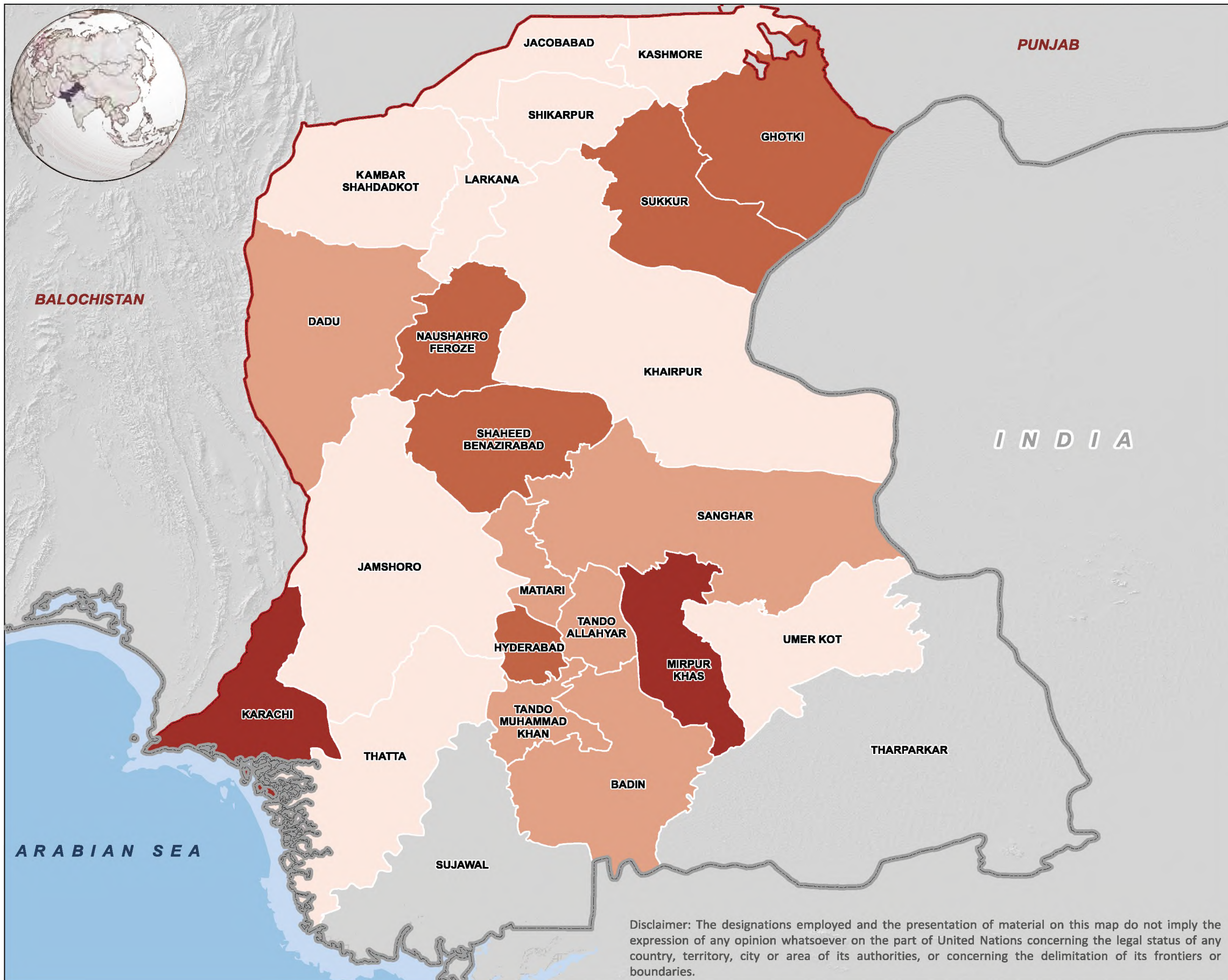




**SECTION 3**  
**MAPPING FERTILIZER OFFTAKE DATA**

# TOTAL OFFTAKE OF UREA IN SINDH



**Map Legend**

**Administrative limits**

- Country
- Province
- District

**Total offtake of Urea per district (kg/acre)**

- <= 500
- 501 - 1000
- 1001 - 1500
- > 1500
- No significant data

**About Map**

The map shows the total offtake of Urea for Wheat, Rice, Cotton and Sugarcane in each district. Higher offtake for the four districts does not mean necessarily that this fertilizer is used on crops grown in the respective districts, i.e., Karachi, Hyderabad, Mirpur Khas and Ghotki.

**Data Sources**

FAO, GAUL, NFDC fertilizer offtake data (2014-2015)

**Map Scale and Datum**

Nominal scale: 1:2,036,900 at A3

Datum: WGS 84

0 30 60 90 120 150  
Kilometers

Date: 14 April 2016

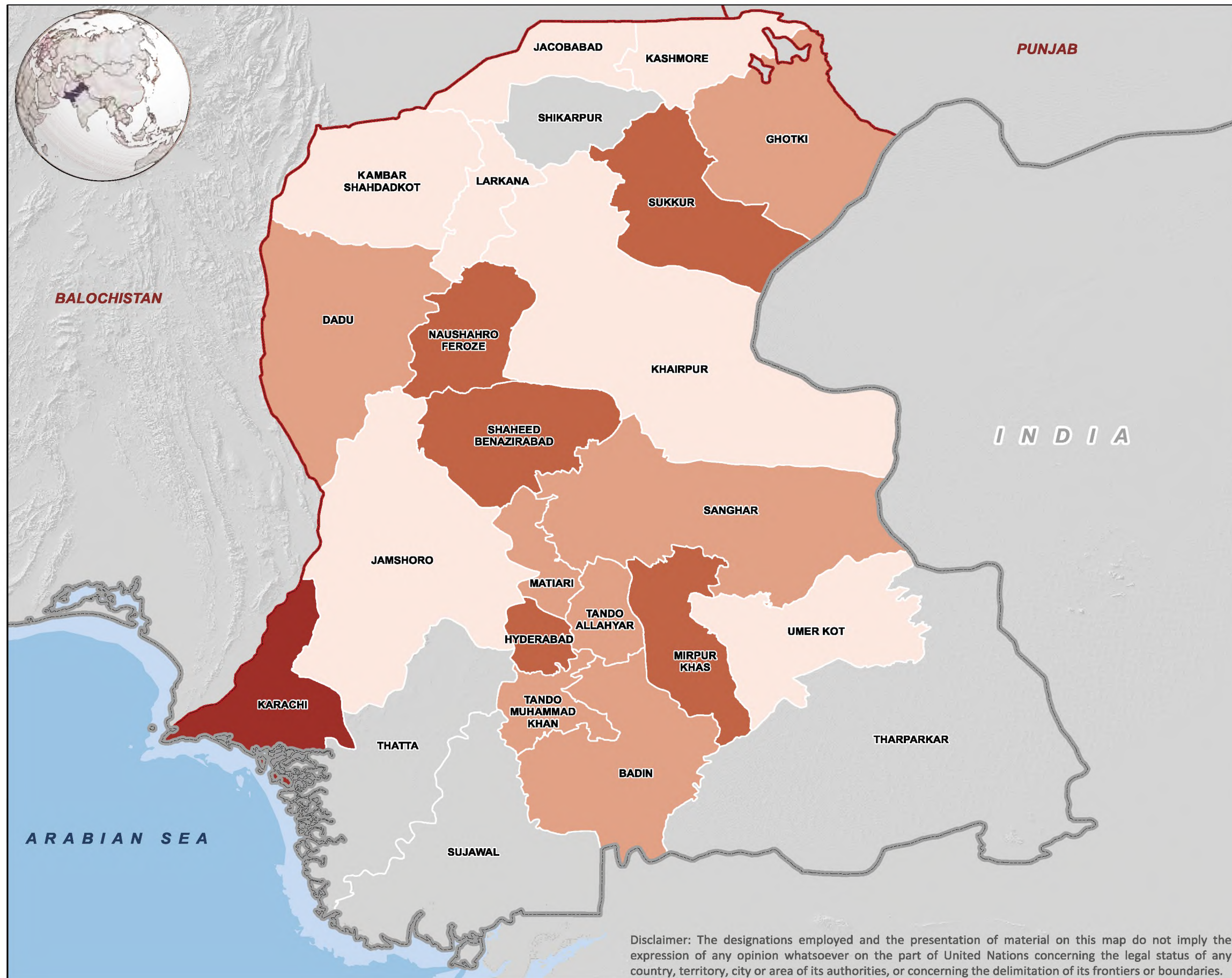
Created by: IM Unit, FAO Pakistan

Map Number: PAK\_Soil Fertility Atlas\_Sindh\_Ureatotnf\_8.6\_20160414



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# TOTAL OFFTAKE OF DI-AMMONIUM PHOSPHATE (DAP) IN SINDH



## Map Legend

- Administrative limits**
- Country
  - Province
  - District
- Total offtake of DAP per district (kg/acre)**
- ≤ 100
  - 101 - 200
  - 201 - 400
  - > 400
  - No significant data

## About Map

The map shows the total offtake of Di-ammonium Phosphate (DAP) for Wheat, Rice, Cotton and Sugarcane in each district. Higher offtake for Karachi and Hyderabad does not mean the use of this fertilizer necessarily in these districts.

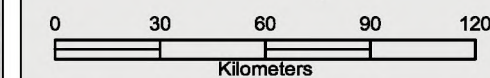
## Data Sources

FAO, GAUL, NFDC fertilizer offtake data (2014-2015)

## Map Scale and Datum

Nominal scale: 1:2,036,900 at A3

Datum: WGS 84



Date created: 19 Apr 2016

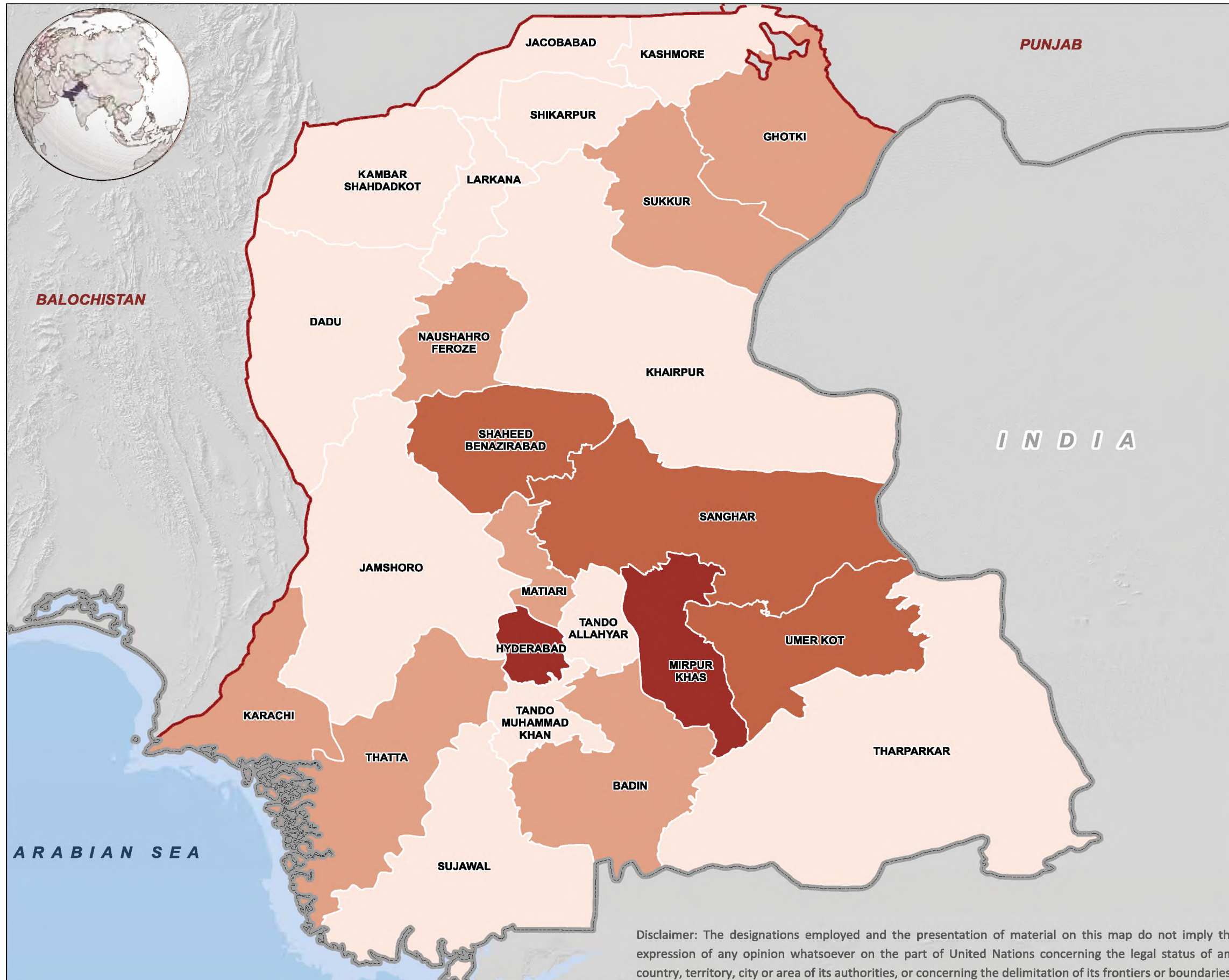
Created by: IM unit, FAO Pakistan

Map Number: PAK\_Soil Fertility Atlas\_Sindh\_DAPtotaln\_10.6\_20160419



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# TOTAL USE OF CALCIUM AMMONIUM NITRATE (CAN) IN SINDH



**Map Legend**

**Administrative limits**

- Country
- Province
- District

**Total Offtake of CAN per district (kg/acre)**

- 0 - 25
- 26 - 50
- 51 - 100
- 101 - 567
- No significant data

**About Map**

The map shows total use of CAN for major crops: Wheat, Rice, Cotton and Sugarcane. The use of CAN appears to be common throughout the province. Relatively higher use indicated in Mirpur Khas with medium usage in four adjoining districts; whereas CAN use is low in all remaining districts irrespective of the crop regions.

**Data Sources**

FAO, GAUL, NFDC fertilizer offtake data (2014-2015)

**Map Scale and Datum**

Nominal scale: 1:2,036,900 at A3

Datum: WGS 84

0 30 60 90 120 150 Kilometers

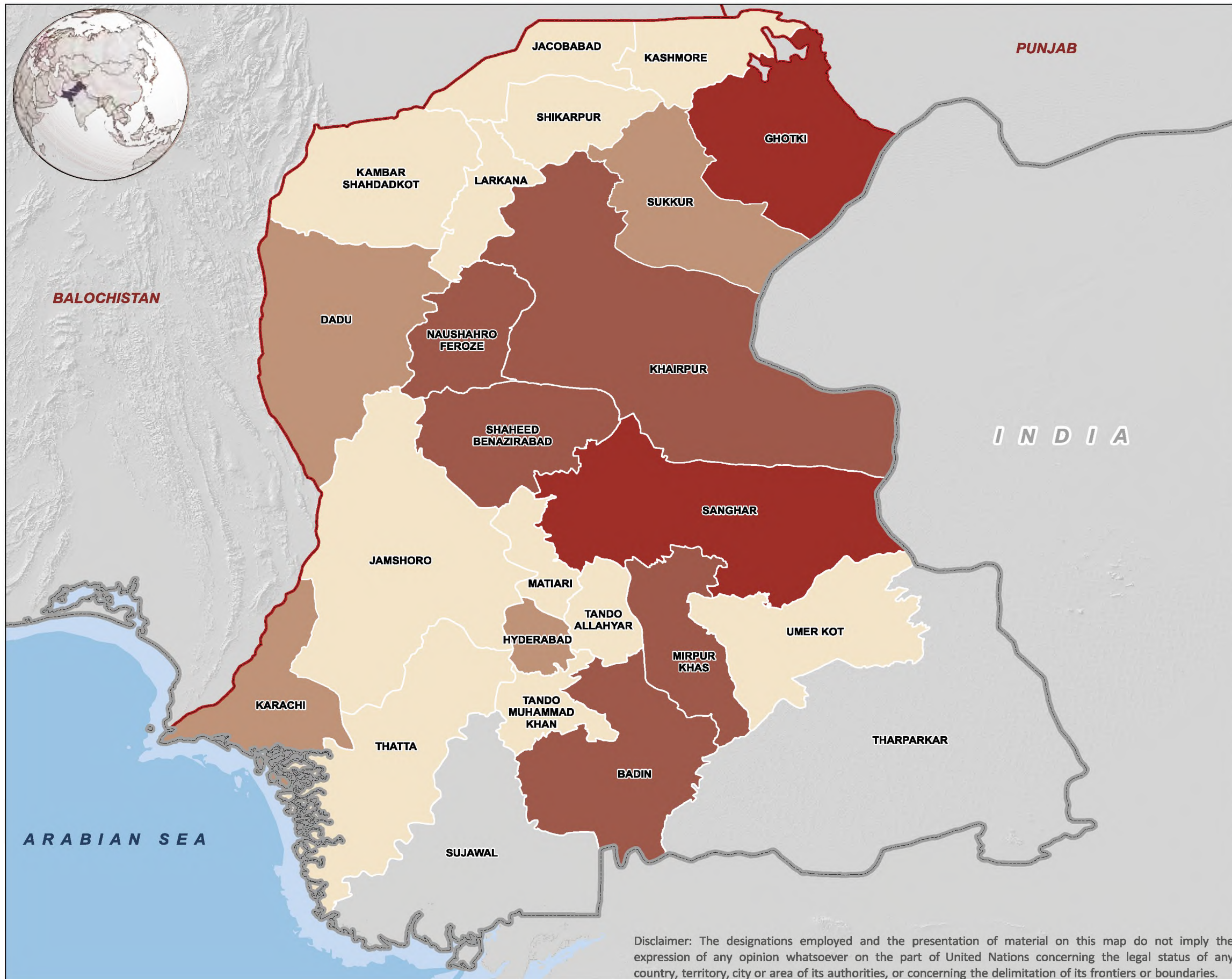
Date: 18 April 2016

Created by: IM Unit, FAO Pakistan

Map Number: PAK\_Soil Fertility Atlas\_Sindh\_CANtotaln\_9.6\_20160418

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# DISTRICT-WISE USE OF NITROGEN IN SINDH



## Map Legend

- Administrative limits**
- Country
  - Province
  - District
- Offtake of Nitrogen Fertilizer (tonnes)**
- ≤ 20,000
  - 20,001 - 40,000
  - 40,001 - 60,000
  - 60,001 - 80,000
  - No significant data

## About Map

The map shows off-take of Nitrogen in each district. The number shows off-take in tonnes. The data is based on the findings of NFDC fertilizer off-take data.

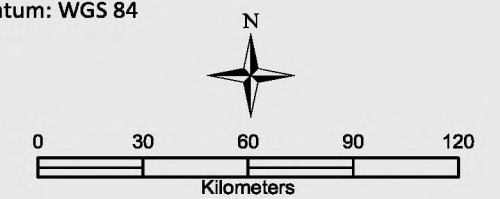
## Data Sources

FAO, GAUL, NFDC Annual Fertilizer Review (2014-2015)

## Map Scale and Datum

Nominal scale: 1:2,036,900 at A3

Datum: WGS 84



Date: 19 Apr 2016

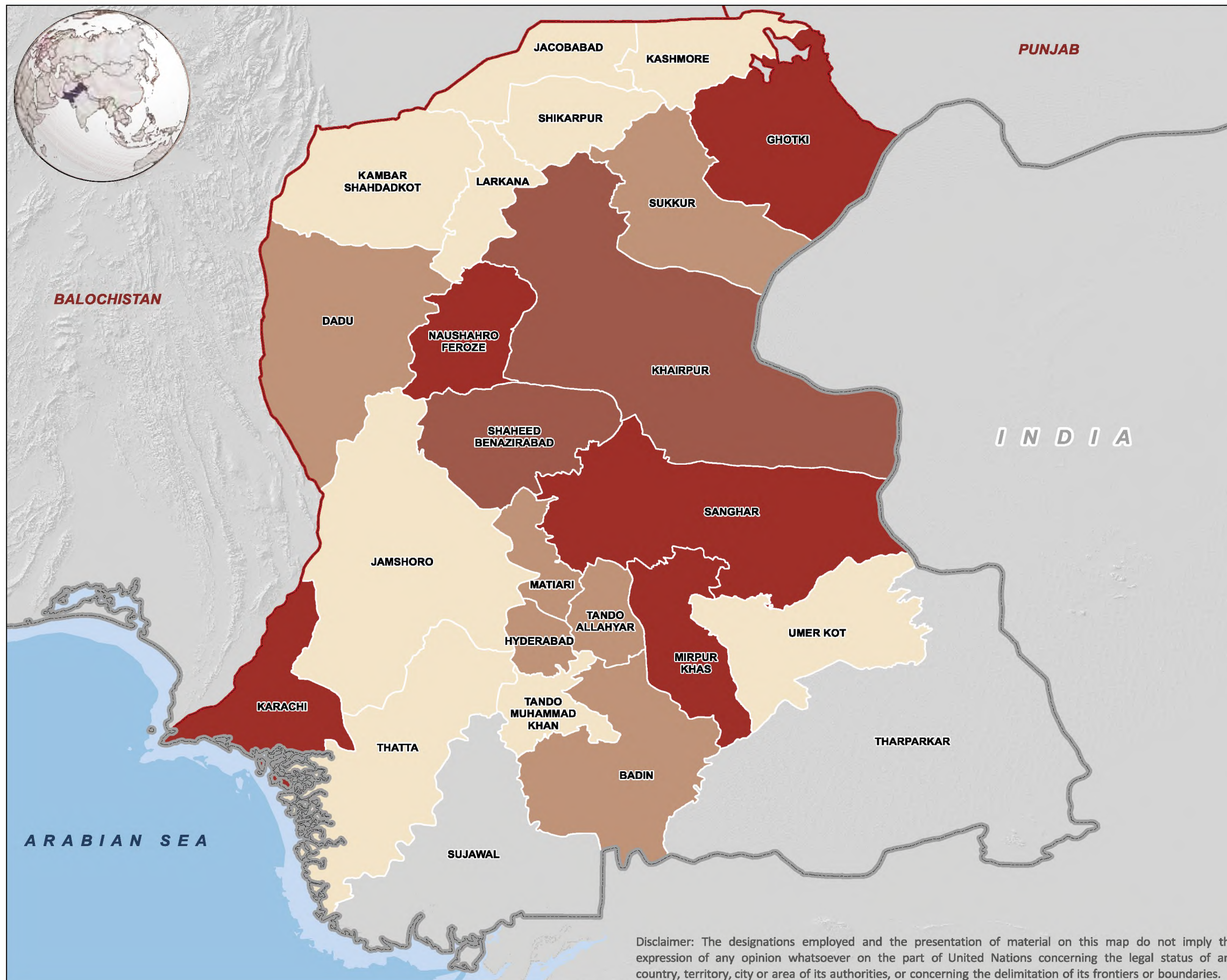
Created by: IM Unit, FAO Pakistan

Map Number: PAK\_Soil Fertility Atlas\_Sindh\_Nitn\_11.1\_20160419



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# DISTRICT-WISE USE OF PHOSPHORUS IN SINDH



**Map Legend**

**Administrative limits**

- Country
- Province
- District

**Offtake of Phosphorus Fertilizer (tonnes)**

- ≤ 4000
- 4001 - 8000
- 8001 - 12000
- 12001 - 16000
- No significant data

**About Map**

The map shows offtake of Phosphorus in each district. The number shows offtake in tonnes. The data is based on the findings of NFDC fertilizer offtake data.

**Data Sources**

FAO, GAUL, NFDC Annual Fertilizer Review (2014-2015)

**Map Scale and Datum**

Nominal scale: 1:2,036,900 at A3

Datum: WGS 84

0 30 60 90 120  
Kilometers

Date: 19 Apr 2016

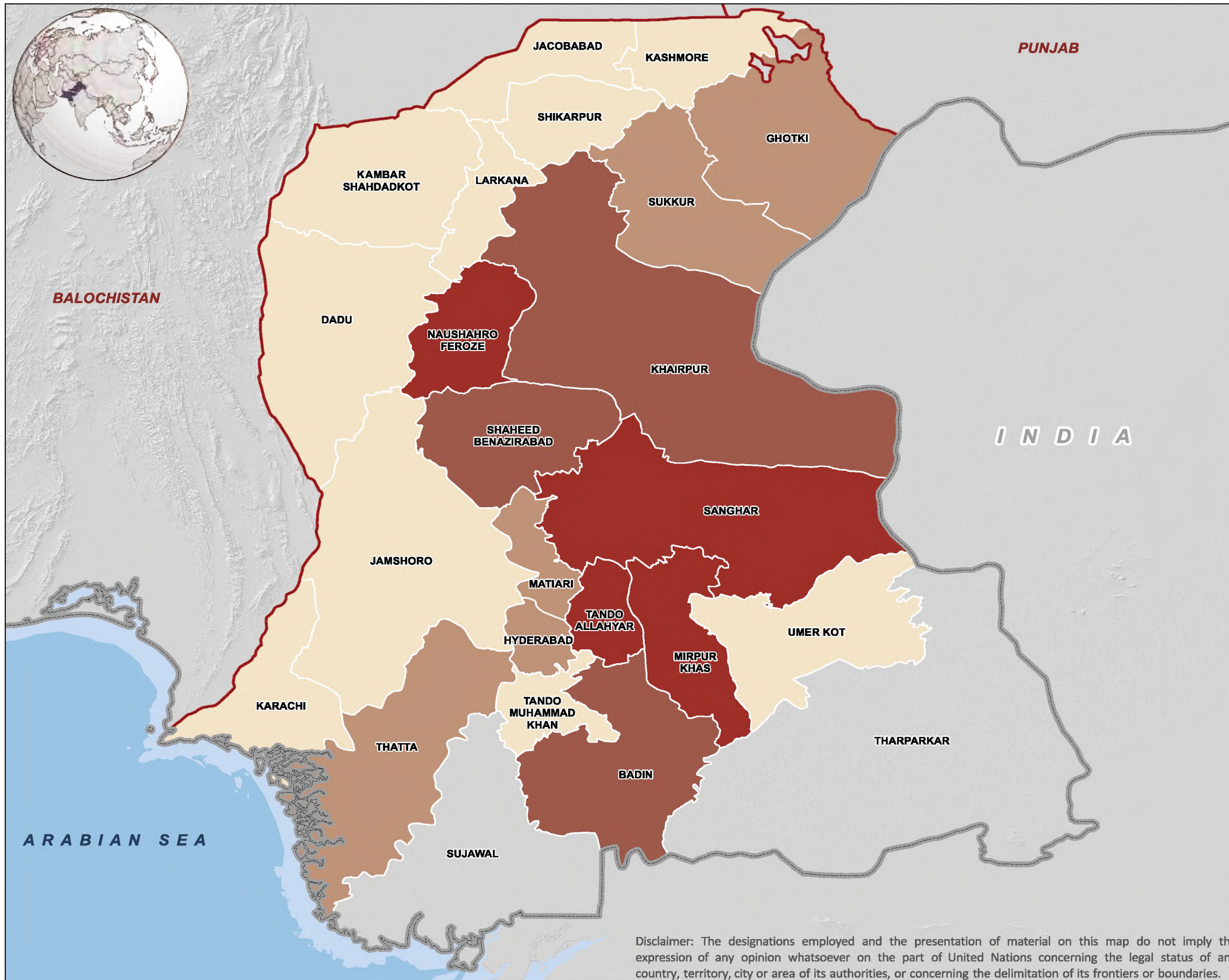
Created by: IM Unit, FAO Pakistan

Map Number: PAK\_Soil Fertility Atlas\_Sindh\_Phospn\_11.2\_20160419



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# DISTRICT-WISE USE OF POTASSIUM IN SINDH



## Map Legend

- Administrative limits**
- Country
  - Province
  - District
- Offtake of Potassium Fertilizer (tonnes)**
- 16 - 100
  - 101 - 200
  - 201 - 300
  - 301 - 400
  - No significant data

## About Map

The map shows offtake of Potassium in each district. The number shows offtake in tonnes. The data is based on the findings of NFDC fertilizer offtake data.

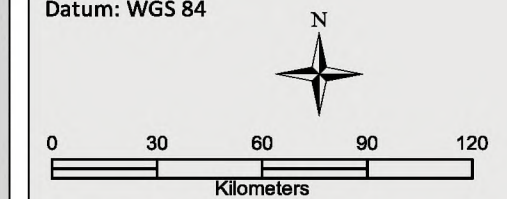
## Data Sources

FAO, GAUL, NFDC Annual Fertilizer Review (2014-2015)

## Map Scale and Datum

Nominal scale: 1:2,036,900 at A3

Datum: WGS 84



Date: 19 Apr 2016

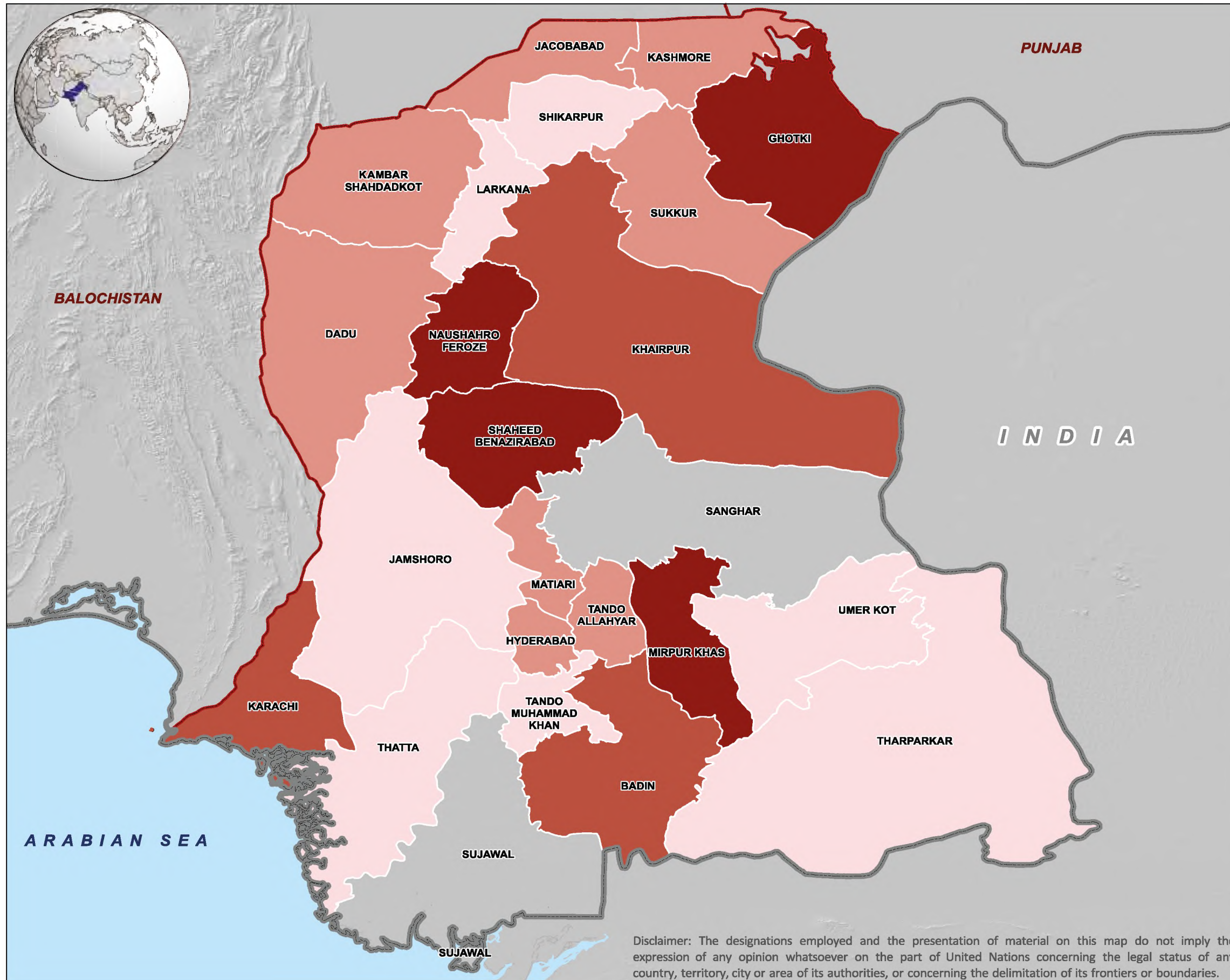
Created by: IM Unit, FAO Pakistan

Map Number: PAK\_Soil Fertility Atlas\_Sindh\_Potassiumn\_11.3\_20160419



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# DISTRICT-WISE NPK OFFTAKE IN SINDH



**Map Legend**

**Administrative limits**

- Country
- Province
- District

**Offtake of NPK (tonnes)**

- ≤ 20,000
- 20,001 - 40,000
- 40,001 - 60,000
- 60,001-80,000
- No significant data

**About Map**

The map shows district-wise average offtake (five years, i.e., 2010-2015) of NPK for all the crops grown in Sindh. Ghotki, Mirpur Khas, Naushahro Feroze and Shaheed Benazirabad are consuming relatively more NPK.

**Data Sources**

FAO, GAUL, NFDC fertilizer/nutrient offtake (2010-2015)

**Map Scale and Datum**

Nominal scale: 1:2,036,900 at A3

Datum: WGS 84

Date: 19 Apr 2016

Created by: IM Unit, FAO Pakistan

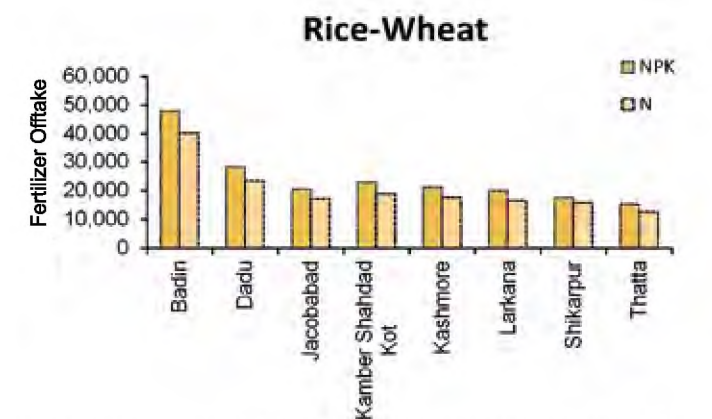
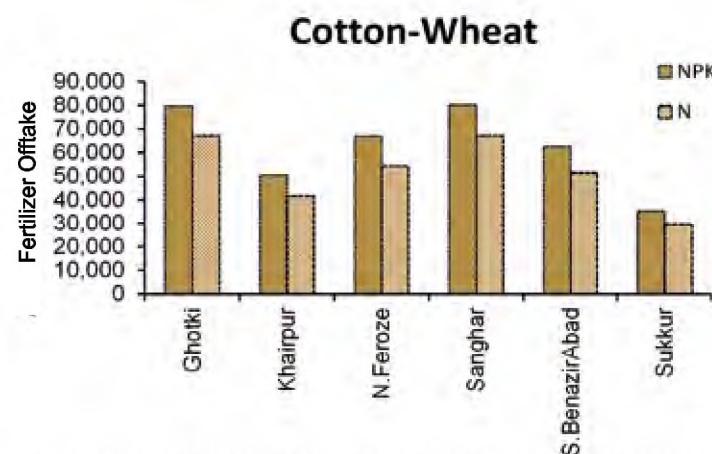
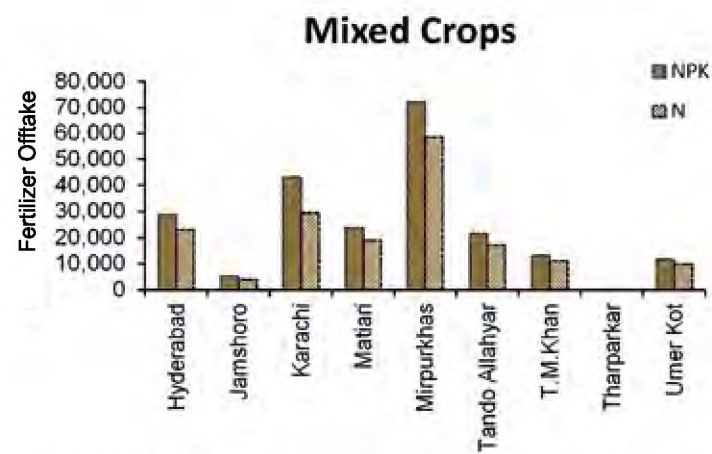
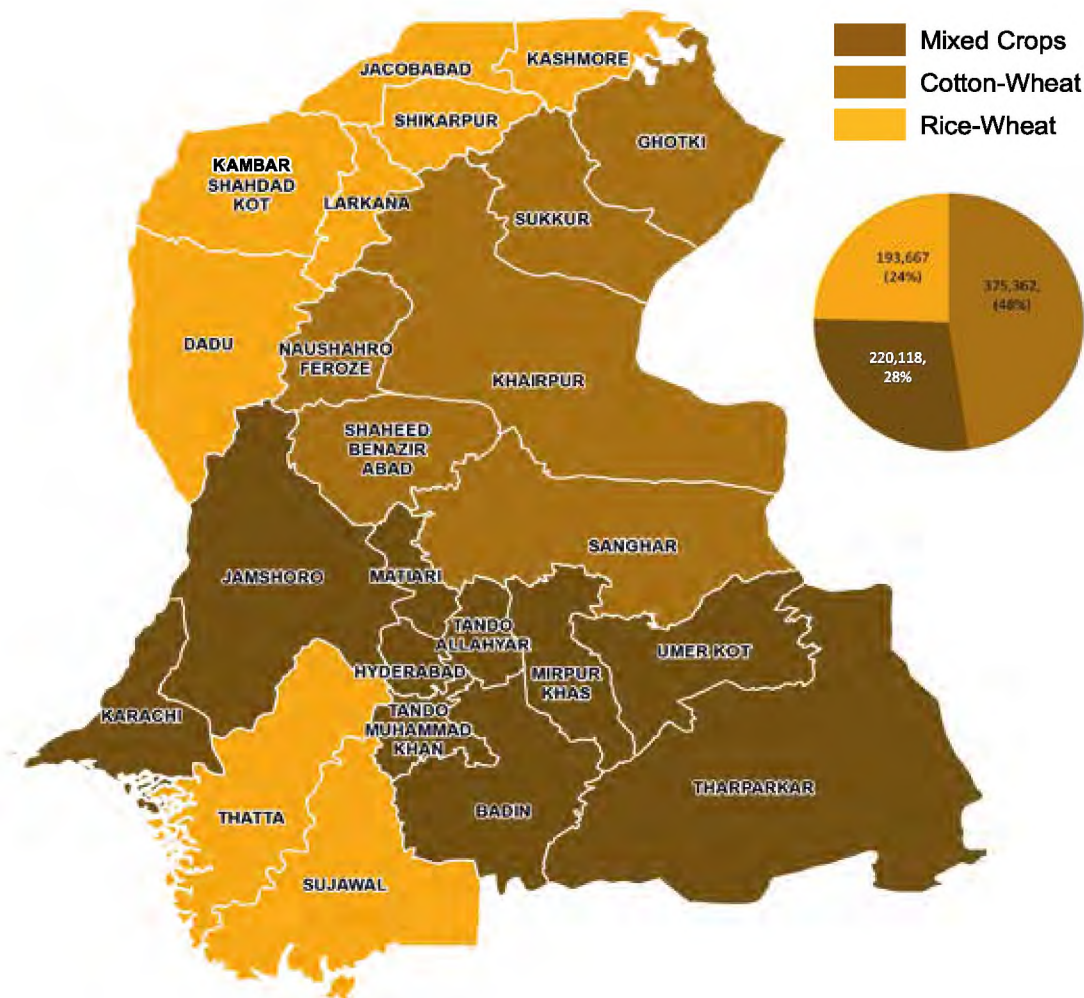
Map Number: PAK\_Soil Fertility Atlas\_Sindh\_Nitr\_11.1\_20160419



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# REGION-WISE COMPARATIVE NPK FERTILIZER OFFTAKE IN SINDH



### About Map

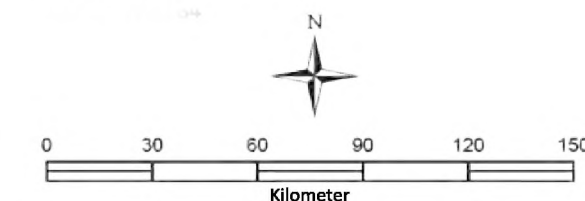
This map shows the five year outlook of NPK offtake in three selected crop production regions of Sindh (Tonnes). Cotton-Wheat region consumed most of the NPK followed by Mixed Crops and Rice-Wheat region. Moreover, data indicates that Mirpur Khas, Badin and Ghotki were the highest consumers of NPK amongst three regions. The proportional contribution of N ranged from 78 to 84% across three production regions reflecting that the application of nutrients/fertilizers is predominantly skewed towards N.

### Data Source

FAO, GAUL, NFDC fertilizer/nutrient offtake in Tonnes (2010-2015)

### Map Scale and Datum

Nominal scale: 1:2,698,500 at A3  
Datum: WGS 84

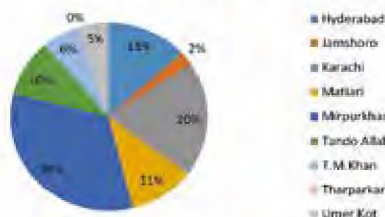


Date: 23 April 2017

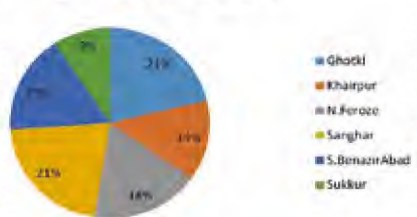
Created by: IM Unit, FAO Pakistan

Map Number: PAK\_Soil Fertility Atlas\_Sindh\_Region-wise\_9\_20170423

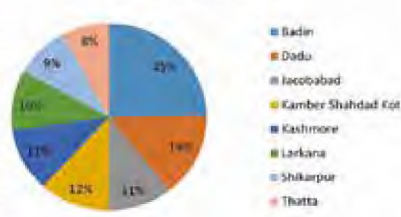
### Mixed Crops %NPK



### Cotton-Wheat %NPK



### Rice-Wheat %NPK



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