

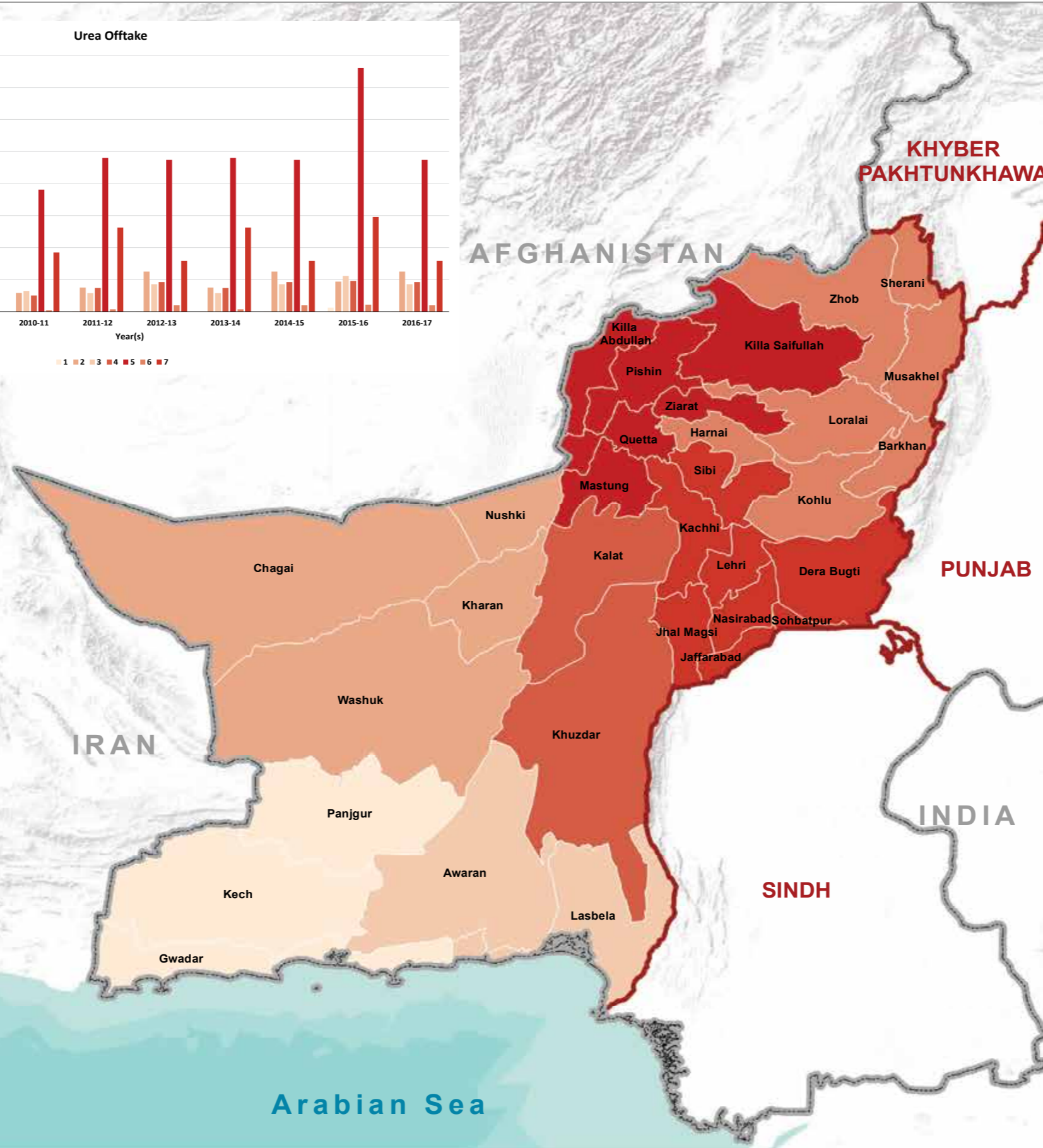
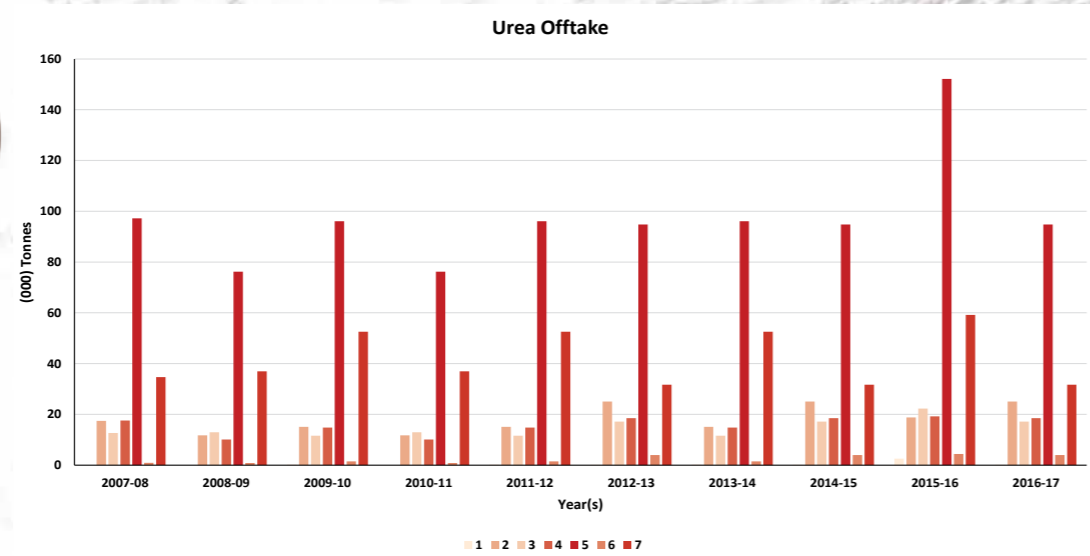


**SECTION III**  
**FERTILIZERS OFFTAKE MAPS**

# TRENDS OF YEAR WISE UREA OFFTAKE IN BALOCHISTAN



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## Map Legend

### Administrative limits

- International boundary
- Provincial boundary
- District boundary
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Zone 7

### About Map

The urea offtake data for ten years (2008 - 2017) in seven Crop Production Zones (CPZs) of Balochistan is presented. The maximum annual urea offtake in CPZ-5 during eight years (2008 - 2016) followed by a sharp decline in year 2017 was observed. A similar trend of urea offtake, as for CPZ-5, was recorded for CPZs 2, 3, 4 and 7. However, CPZs 1 and 6 exhibited the lowest urea offtake. While urea offtake decreased drastically in CPZs 2 and 5 during 2015 – 2016, a corresponding increase in urea offtake was registered in CPZs 3, 4 and 7. This shows a changing trend of urea offtake over the years in the same CPZs in Balochistan. Notably, a minimum total urea offtake for Balochistan province was recorded in 2016.

Date: 19 Nov, 2018  
 Created by: IM UNIT, FAO Pakistan  
 Map Number: PAK\_Soil\_Fertility\_Atlas\_Bal\_Urea\_Off\_Take\_Map\_20181119\_1700

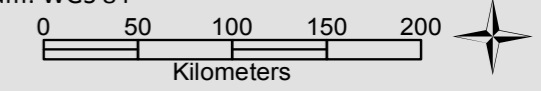
### Data Sources

GAUL, FAO and NFDC Fertilizer Offtake Data (2008 - 2017)

### Map Scale and Datum

Nominal scale: 1:3,804,672 at A3

Datum: WGS 84

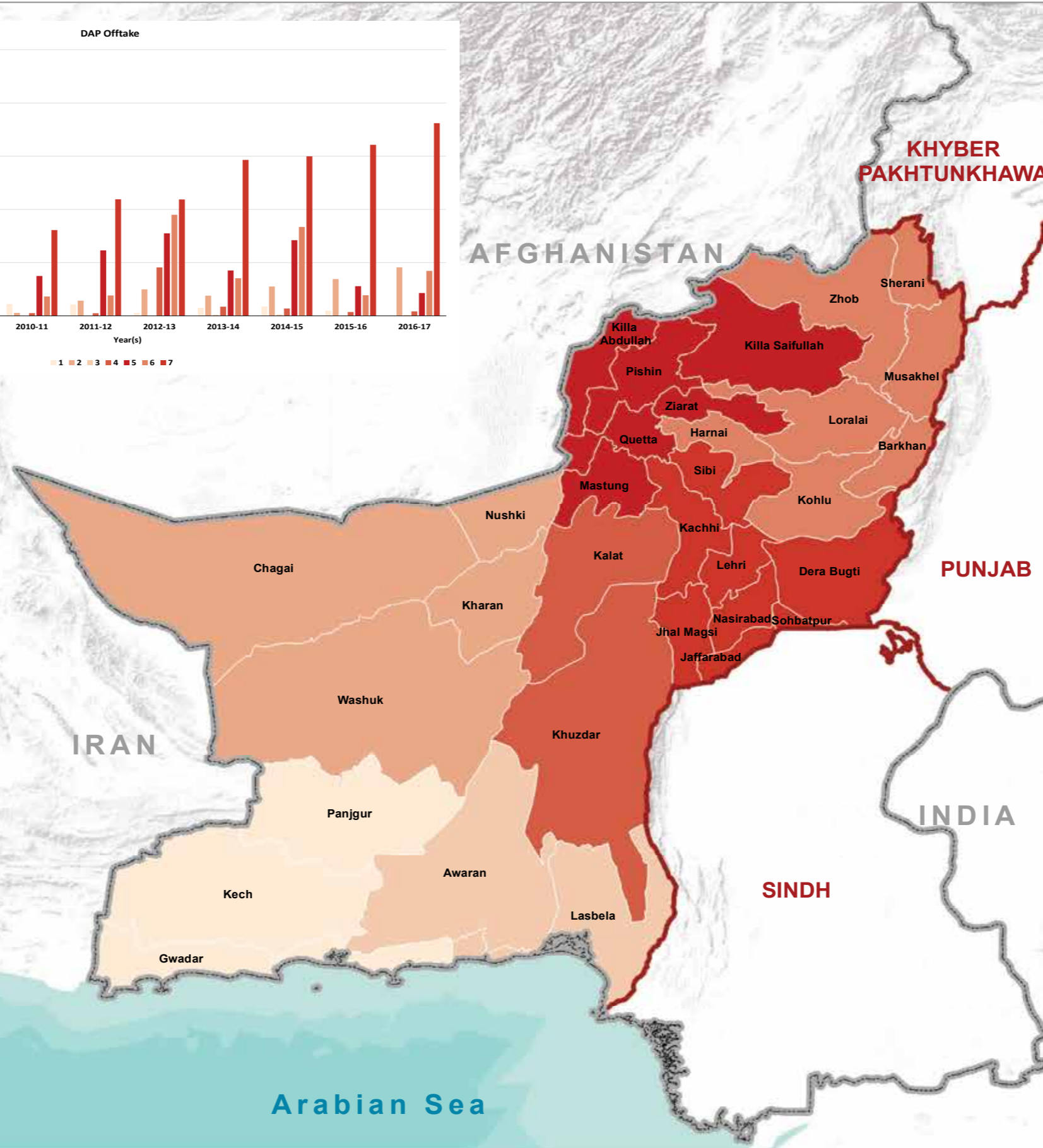
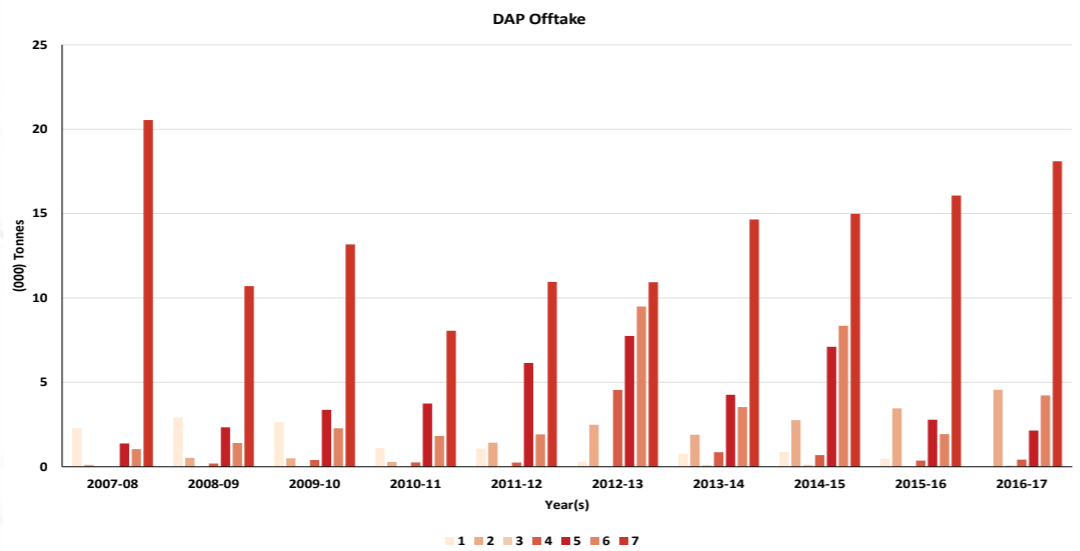


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# TRENDS OF YEAR WISE DAP OFFTAKE IN BALOCHISTAN



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## Map Legend

### Administrative limits

- International boundary
- Provincial boundary
- District boundary
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Zone 7

### About Map

The DAP offtake data for ten years (2008-2017) in seven Crop Production Zones (CPZs) of Balochistan is presented. The maximum annual DAP offtake (20500 tonnes) was recorded in CPZ-7 during 2007-08, afterwards the DAP offtake shows abrupt decline (48%) which hits the lowest value in 2010-11. However, the DAP offtake recovered gradually up to the year 2016-17. Contrary to this, the lowest average DAP offtake was reported in CPZ-3 with maximum total offtake being merely 100 tonnes during 2013-15 and 2016-17. The remaining crop zones exhibit annual average 2.3 (000) tonnes of DAP offtake. This shows that offtake of DAP was unevenly distributed among the various CPZs in Balochistan, with an averagely reported <5 (000) tonnes in CPZs 1-6 as compared to 13.8 (000) tonnes in CPZ-7.

Date: 19 Nov, 2018  
Created by: IM UNIT, FAO Pakistan  
Map Number: PAK\_Soil\_Fertility\_Atlas\_Bal\_Urea\_Off\_Take\_Map\_20181119\_1700

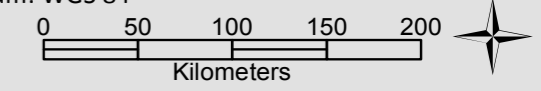
### Data Sources

GAUL, FAO and NFDC Fertilizer Offtake Data (2008 - 2017)

### Map Scale and Datum

Nominal scale: 1:3,804,672 at A3

Datum: WGS 84

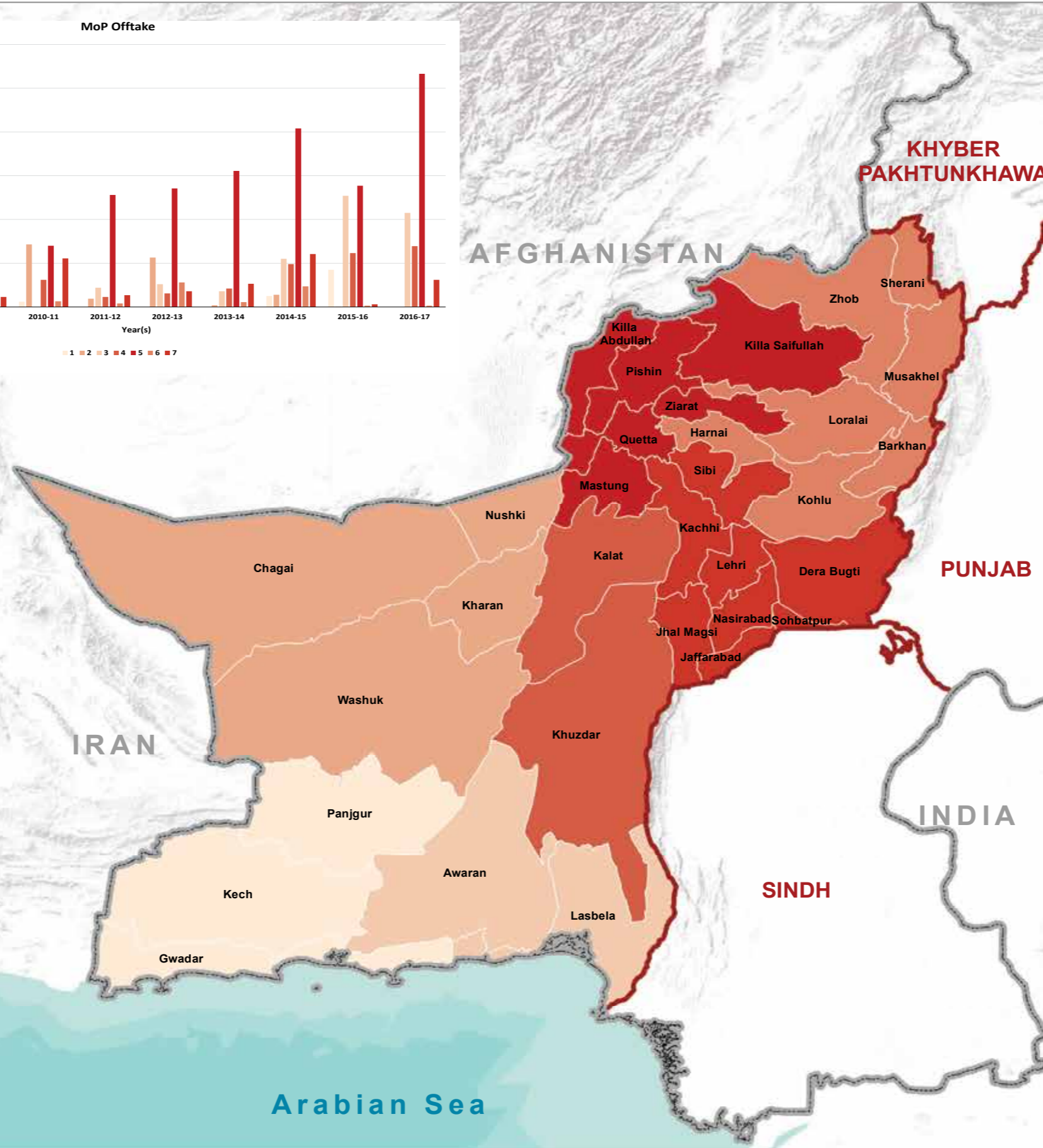
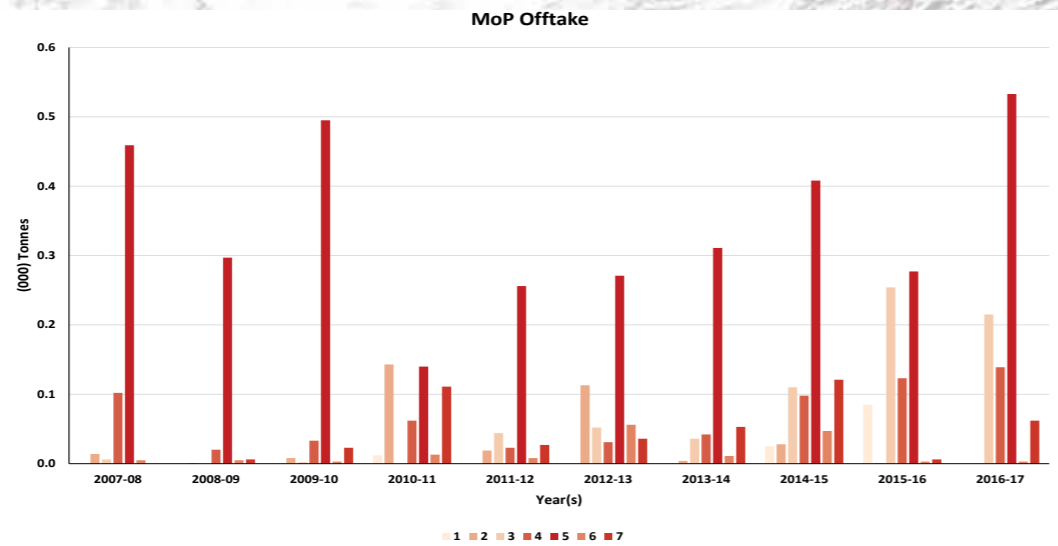
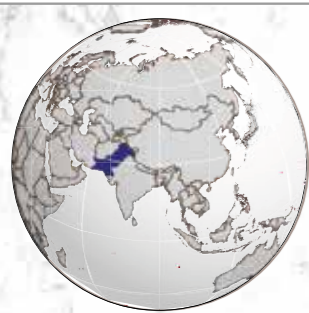


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# TRENDS OF YEAR WISE MoP OFFTAKE IN BALOCHISTAN



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## Map Legend

### Administrative limits

- International boundary
- Provincial boundary
- District boundary
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Zone 7

### About Map

The MoP offtake data for ten years in seven Crop Production Zones (CPZs) of Balochistan is presented. The maximum annual MoP offtake is seen in CPZ-5 during 2009-10 and 2016-17, with abrupt fluctuations in rest of the years. Moreover, noticeable MoP offtake was also recorded in CPZ-3 where the maximum MoP offtake touches the 0.3 (000) tonnes during 2015-16. Overall trend showed no appreciable MoP offtake in other CPZs during the corresponding years. A slightly increasing trend in MoP offtake was recorded in CPZs 2, 3 and 4 of Balochistan during 2012-13; 2015-16 and 2016-17, respectively.

Date: 19 Nov, 2018  
 Created by: IM UNIT, FAO Pakistan  
 Map Number: PAK\_Soil\_Fertility\_Atlas\_Bal\_Urea\_Off\_Take\_Map\_20181119\_1700

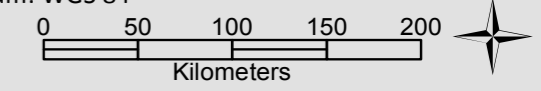
### Data Sources

GAUL, FAO and NFDC Fertilizer Offtake Data (2008 - 2017)

### Map Scale and Datum

Nominal scale: 1:3,804,672 at A3

Datum: WGS 84

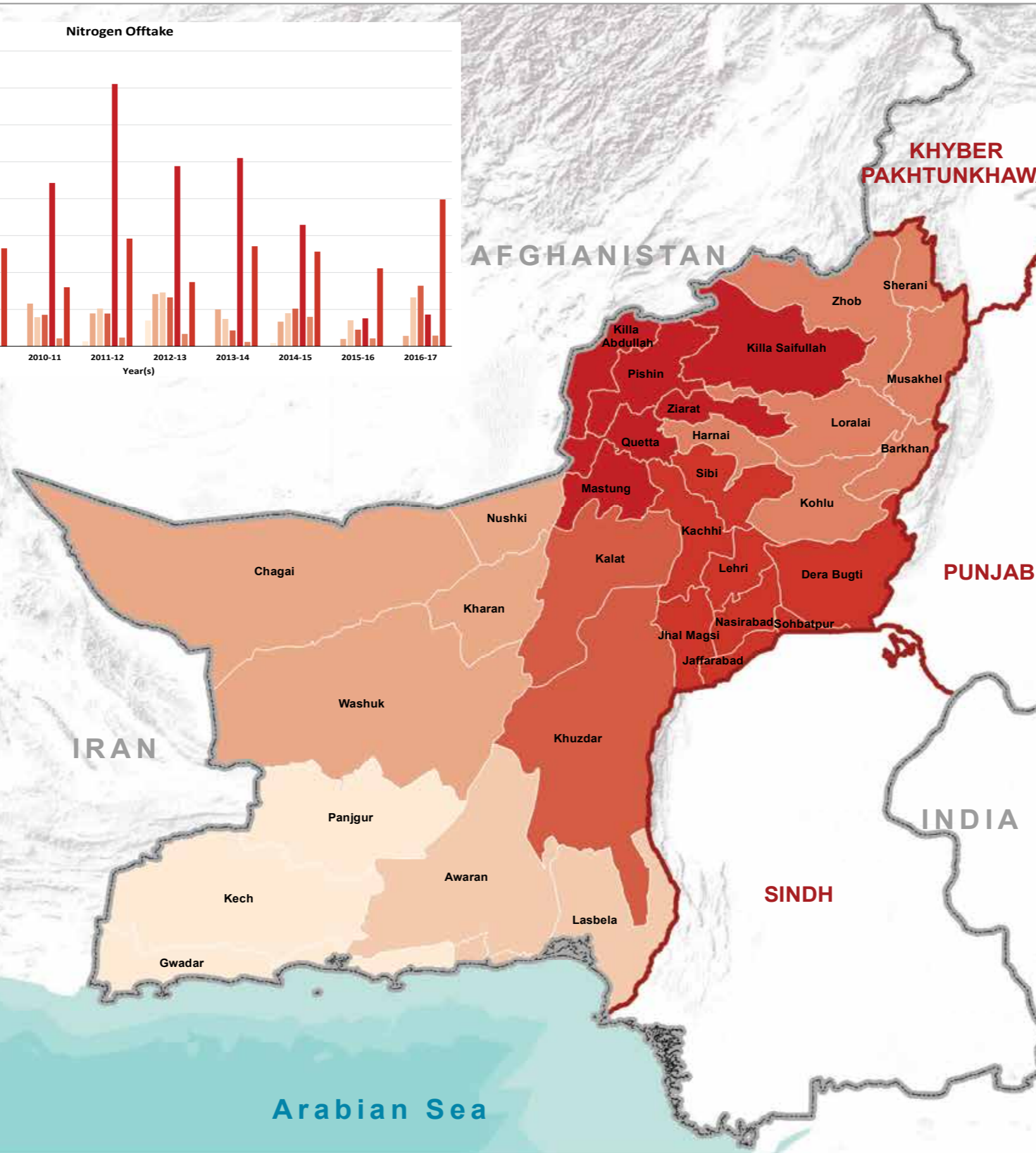
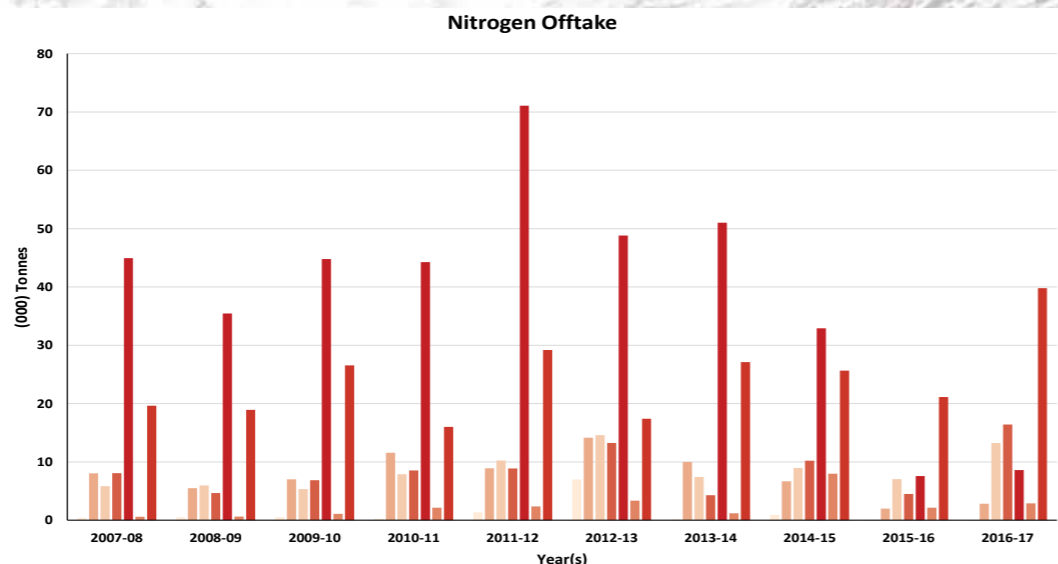


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# TRENDS OF YEAR WISE NITROGEN OFFTAKE IN BALOCHISTAN



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## Map Legend

### Administrative limits

- International boundary
- Provincial boundary
- District boundary
- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Zone 7

### About Map

The nitrogen offtake data for ten years in seven Crop Production Zones (CPZs) of Balochistan is presented. The nitrogen offtake data exhibited almost the same trend as urea offtake data. The maximum annual nitrogen offtake in CPZ-5 during eight years (2008 - 2015) and then a sharp decline in urea offtake in year 2016 was observed. The urea offtake trend in CPZ-5 was followed by CPZs 2, 3, 4 and 7. However, CPZs 1 and 6 exhibited the lowest urea offtake during 2007-14 while slight increases were noticed during following years 2014-17. This shows a changing trend of urea offtake in the same CPZs in Balochistan. Notably, a minimum total urea offtake for Balochistan province was recorded in 2016.

Date: 19 Nov, 2018

Created by: IM UNIT, FAO Pakistan

Map Number: PAK\_Soil\_Fertility\_Atlas\_Bal\_Urea\_Off\_Take\_Map\_20181119\_1700

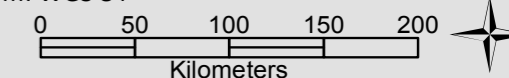
### Data Sources

GAUL, FAO and NFDC Fertilizer Offtake Data (2008 - 2017)

### Map Scale and Datum

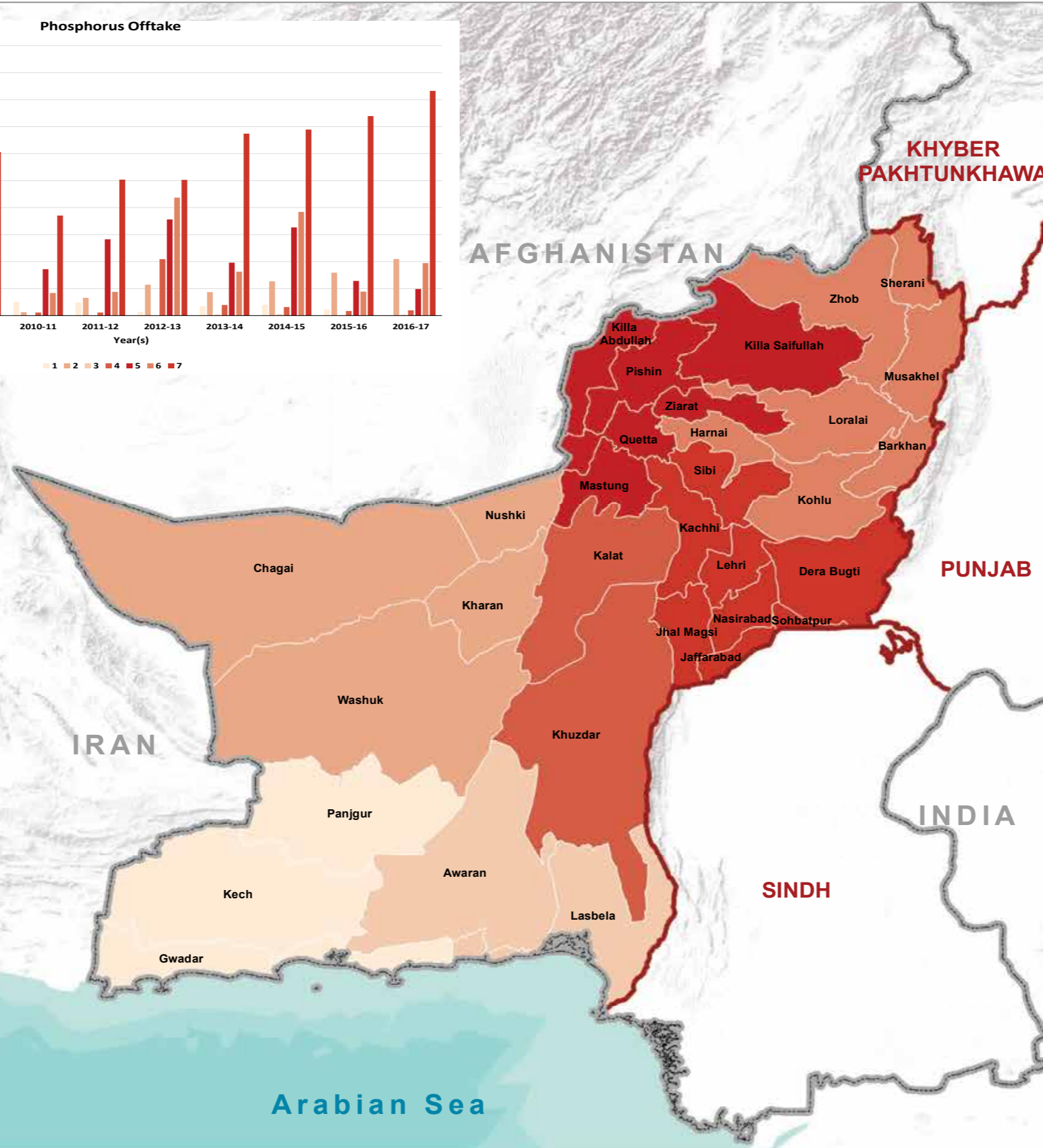
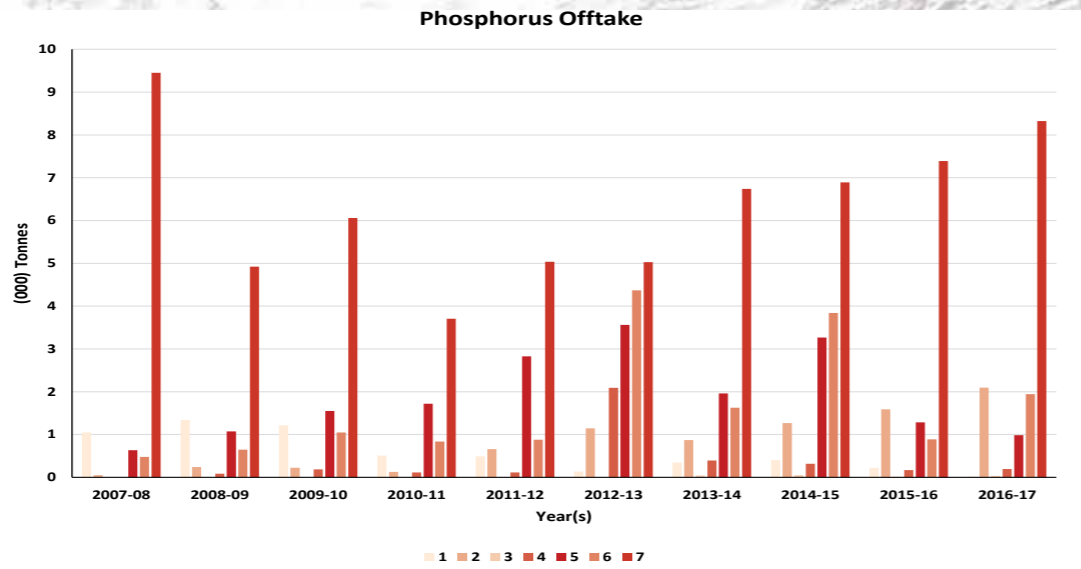
Nominal scale: 1:3,804,672 at A3

Datum: WGS 84



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# TRENDS OF YEAR WISE PHOSPHORUS OFFTAKE IN BALOCHISTAN



### Map Legend

**Administrative limits**

- International boundary
- Provincial boundary
- District boundary

**CPZs**

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5
- Zone 6
- Zone 7

### About Map

The phosphorus ( $P_2O_5$ ) offtake data for ten years in seven Crop Production Zones (CPZs) of Balochistan is presented. The maximum annual phosphate offtake in CPZ-7 was recorded during 2007-08, which showed a declining trend during the following years 2008-12. However, afterwards the increasing trend in phosphorus offtake is shown in CPZs 5, 6 and 7 as well. The phosphorus offtake data clearly divide the report period into two phases. During the first phase (2007-12), noticeable phosphorus offtake is recorded in CPZ-7 only. On the other hand, appreciable phosphorus offtake is noticed in CPZs 2, 4, 5 and 6 as well along with CPZ 7. These inconsistent trends may actually reflect the farmers' abrupt decisions especially related to fertilizer use and management.

Date: 19 Nov, 2018  
 Created by: IM UNIT, FAO Pakistan  
 Map Number: PAK\_Soil\_Fertility\_Atlas\_Bal\_Urea\_Off\_Take\_Map\_20181119\_1700

### Data Sources

GAUL, FAO and NFDC Fertilizer Offtake Data (2008 - 2017)

### Map Scale and Datum

Nominal scale: 1:3,804,672 at A3  
 Datum: WGS 84

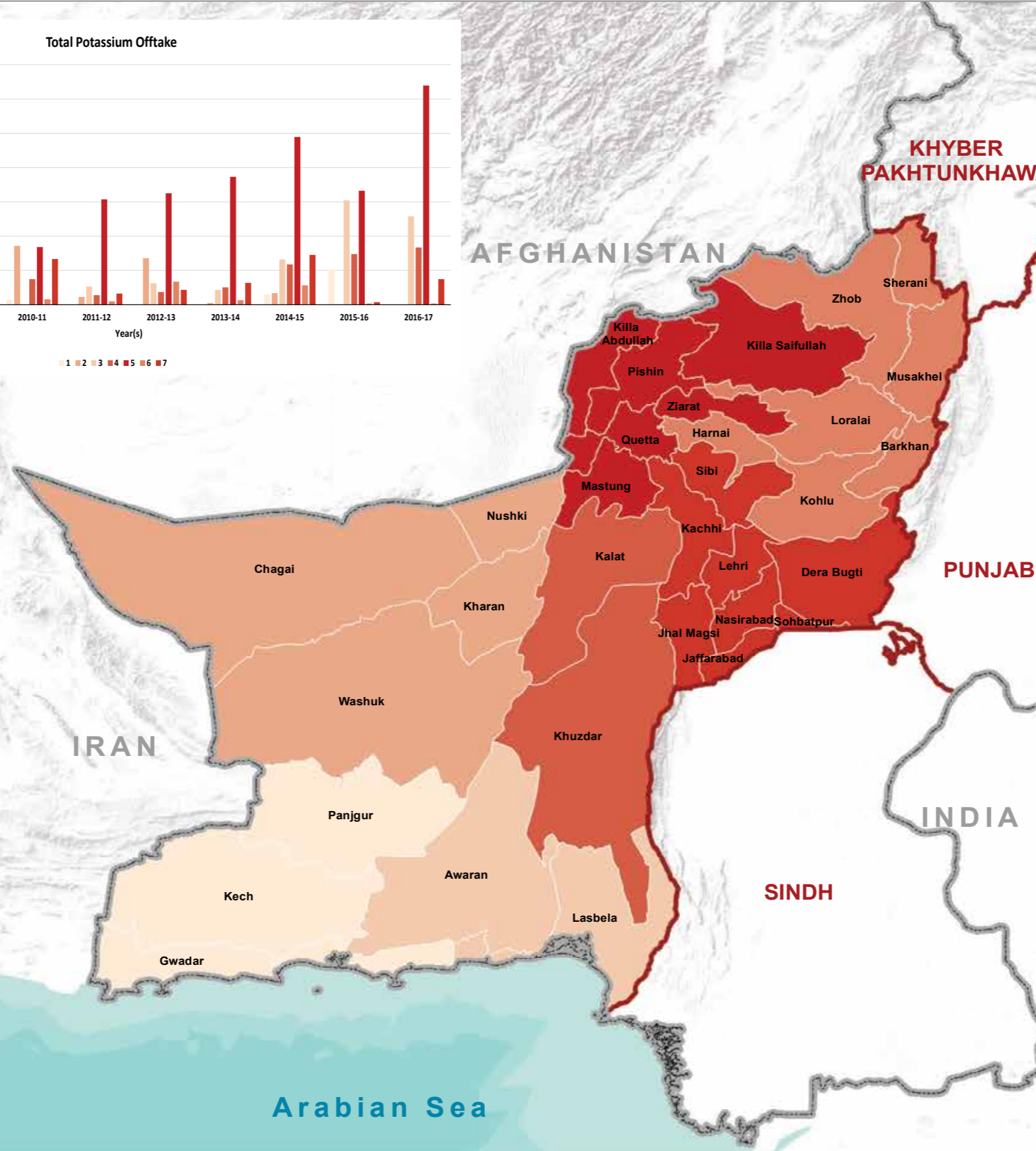
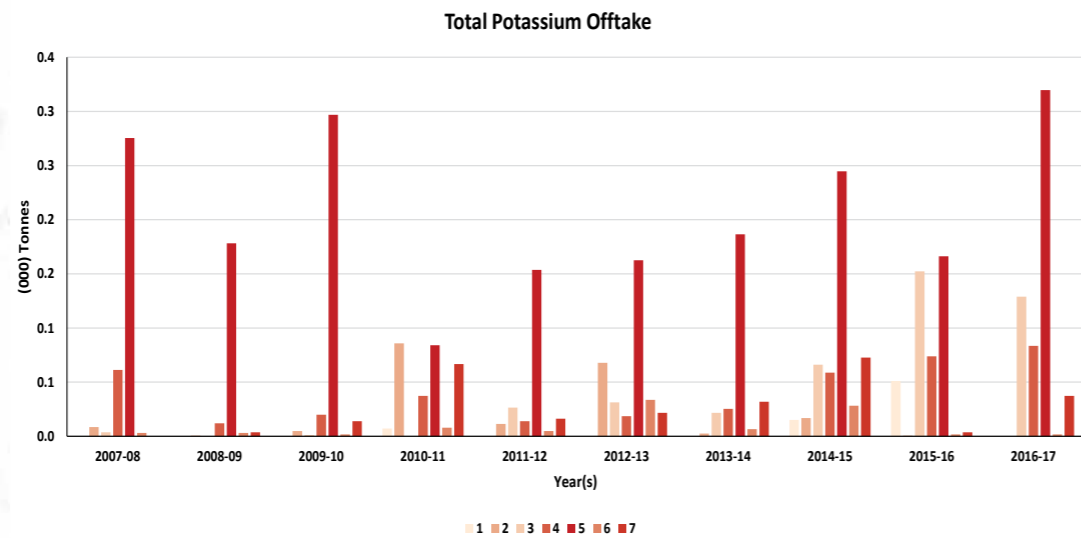
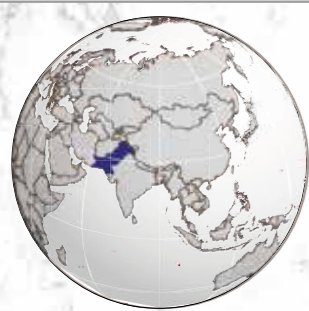


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# TRENDS OF YEAR WISE POTASSIUM OFFTAKE IN BALOCHISTAN



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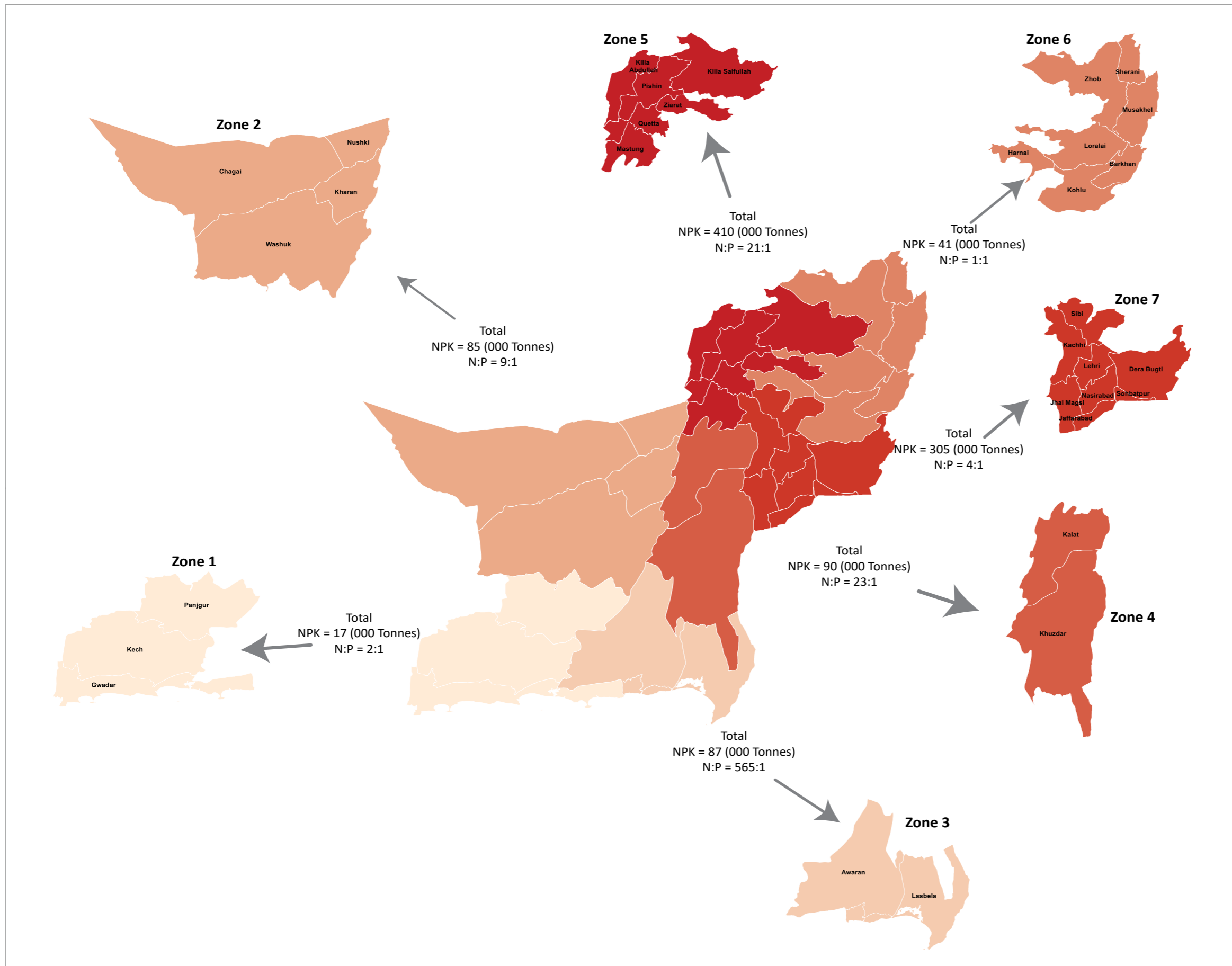


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# COMPARATIVE CUMULATIVE NUTRIENTS OFFTAKE IN BALOCHISTAN

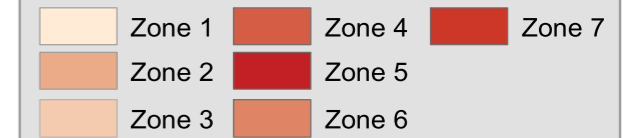


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## Map Legend

### Administrative limits



## About Map

Cumulative nutrients (N + P<sub>2</sub>O<sub>5</sub> + K<sub>2</sub>O) offtake in Balochistan, across seven Crop Production Zones (CPZs) for the last decade (2008-2017) is presented. Based on the comparative nutrients offtake, CPZs are arranged in the order: CPZ-5 > CPZ-7 > CPZ-4 > CPZ-3 > CPZ-2 > CPZ-6 > CPZ-6. The ratio between N and P mainly varied between 1:1 and 565:1. There may be different patterns of nutrients offtake due to border infiltration across the different CPZs at farm gate, and the larger variation in N:P ratio may not be truly representative of the fertilizer use.

## Data Sources

GAUL, FAO and NFDC Fertilizer Offtake Data (2008 - 2017)

## Map Scale and Datum

Nominal scale: 1:3,804,672 at A3

Datum: WGS 84

