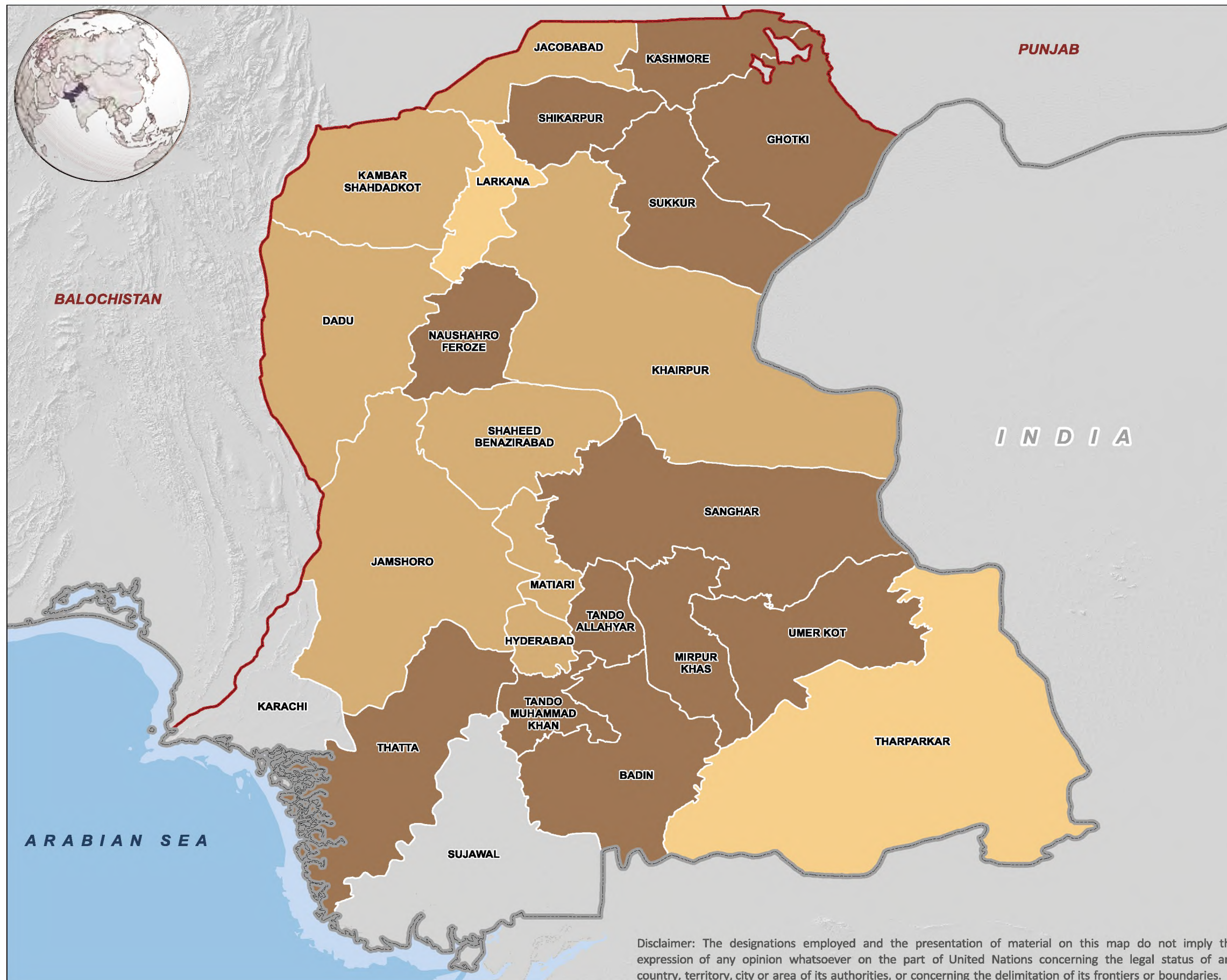




SECTION 4
SOIL FERTILITY STATUS MAPPING

DISTRICT-WISE AVERAGE pH



Map Legend

Administrative limits

- Country
- Province
- District

pH value

- ≤ 8.00
- 8.01 - 8.20
- 8.21 - 8.41
- Data not available

About Map

The map shows average pH of soils (1:2.5, soil: water ratio) in each district. Three categories of soil based on pH are obvious; pH values <8.5 throughout the province may not be a big factor impacting crop productivity. For details, please see Annexure III.

Data Sources

FAO, GAUL, Fauji Fertilizer Company Limited, Rawalpindi

Map Scale and Datum

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

Datum: WGS 84

Date: 24 March 2016

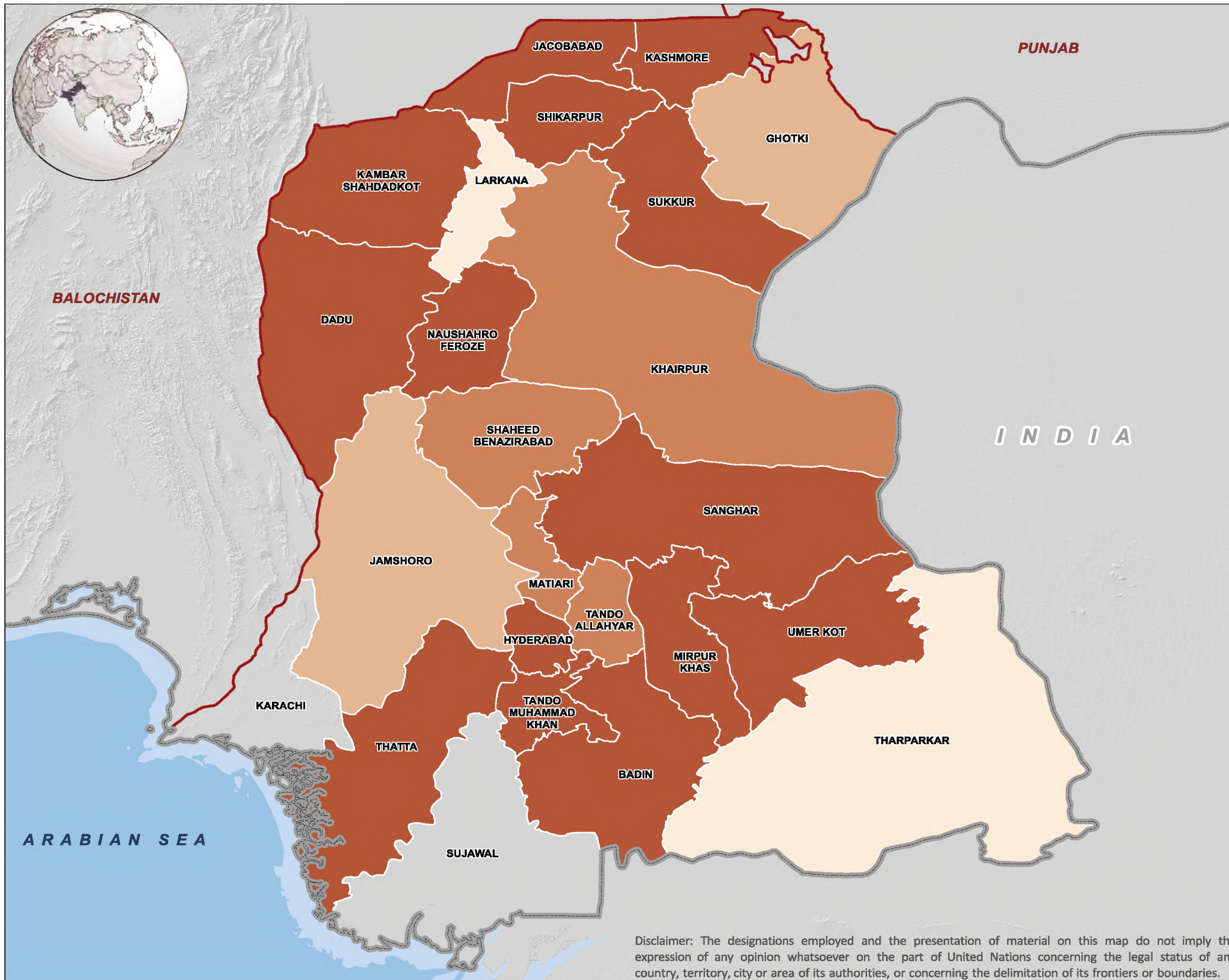
Created by: IM Unit, FAO Pakistan

Map Number: PAK_Soil Fertility Atlas_Sindh_pH_15.1_20160419



Disclaimer: The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of United Nations concerning the legal status of any country, territory, city or area of its authorities, or concerning the delimitation of its frontiers or boundaries.

DISTRICT-WISE AVERAGE ELECTRICAL CONDUCTIVITY (EC)



Map Legend

Administrative limits

- Country
- Province
- District

EC value (dSm⁻¹)

- ≤ 0.51
- 0.52 - 1.00
- 1.01 - 1.50
- > 1.50

□ Data not available

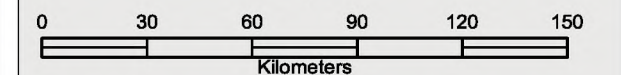
About Map

The map shows the average EC (1: 2.5, soil: water extract) in soils of each district. Including two districts Sukkur and Naushahro Feroze, soils in most of the rice growing and mixed crops of cotton-wheat regions seem to be affected by salinity. For details, please see Annexure III.

FAO, GAUL, Fauji Fertilizer Company Limited, Rawalpindi

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

Datum: WGS 84



Date: 24 March 2016

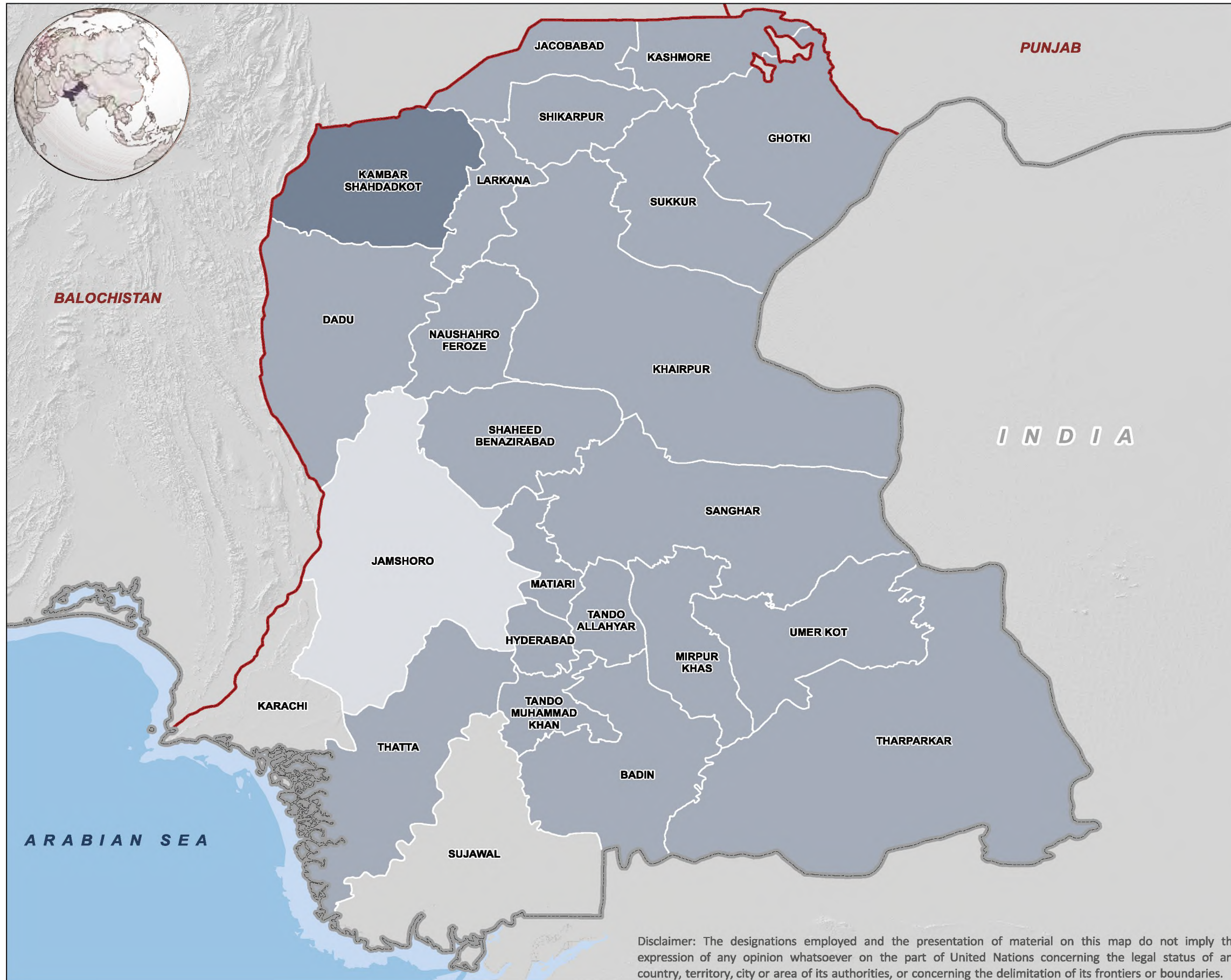
Created by: IM Unit, FAO Pakistan

Map Number: PAK_Soil Fertility Atlas_Sindh_EC_15.2_20160324



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DISTRICT-WISE AVERAGE ORGANIC MATTER CONTENT



Map Legend

Administrative limits

- Country
- Province
- District

Organic Matter (%)

- Very weak (≤ 0.5)
- Weak (0.5-1.0)
- Moderate fertile (1.0-1.5)
- Fertile (>1.5)
- Data not available

About Map

The map shows fertility status of soils based on average organic matter content. Except for the district Qambar Shahdadt, soil organic matter content is lower than the level ($>1.5\%$) considered adequate for fertile soils. For details, please see Annexure III.

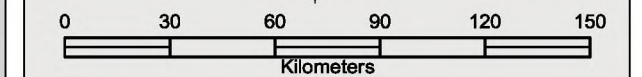
Data Sources

FAO, GAUL, Fauji Fertilizer Company Limited, Rawalpindi

Map Scale and Datum

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

Datum: WGS 84



Date: 24 March 2016

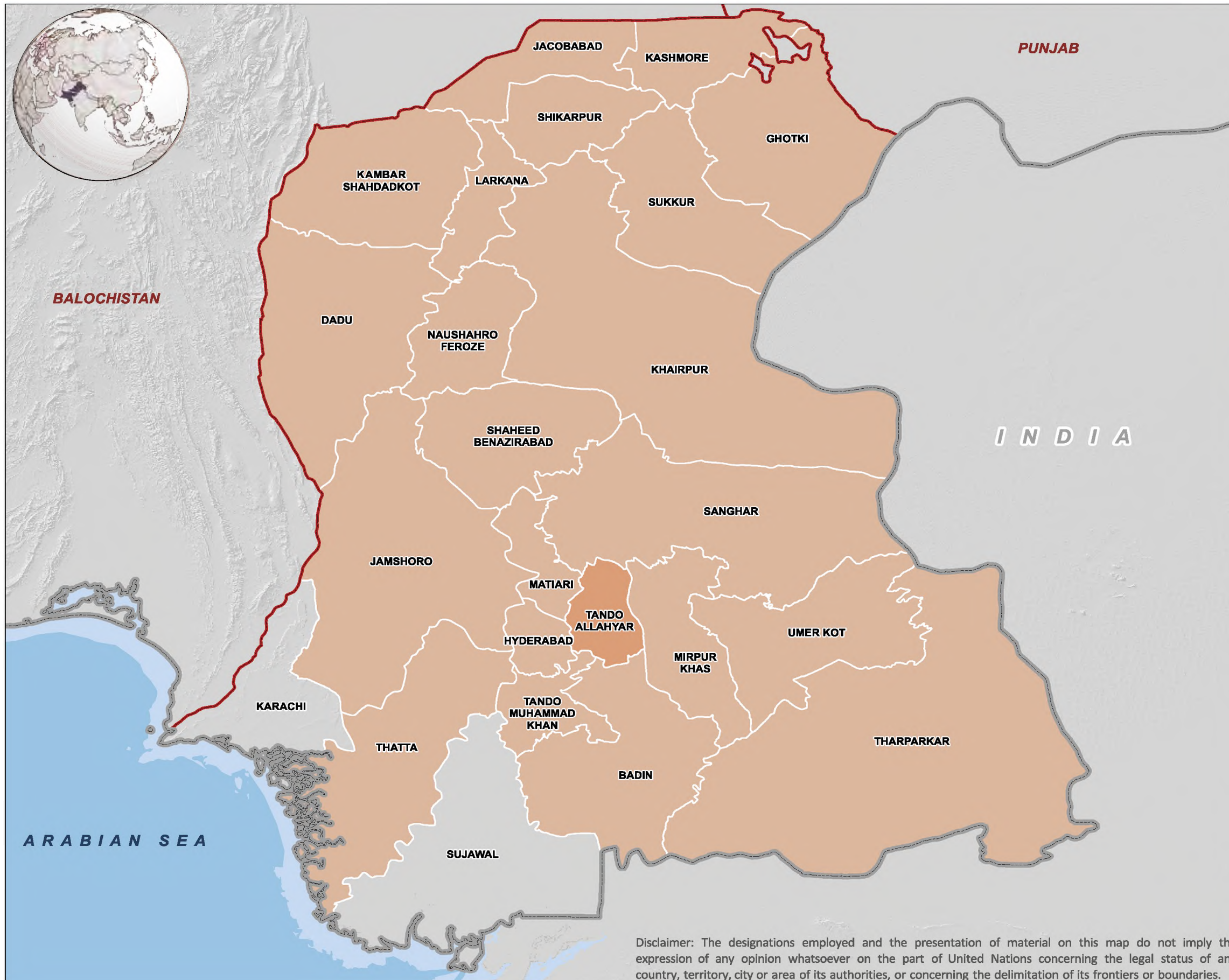
Created by: IM Unit, FAO Pakistan

Map Number: PAK_Soil Fertility Atlas_Sindh_OM_15.3_20160324



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DISTRICT-WISE AVERAGE AVAILABLE PHOSPHORUS



Map Legend

Administrative limits

- Country
- Province
- District

Available Phosphorus (ppm)

- Very weak (≤ 5.0)
- Weak (5.1 - 10.0)
- Data not available

About Map

The map shows fertility status of soils based on plant available phosphorus. Soils in all districts of Sindh are weak with respect to phosphorus level required for healthy crop growth. For details, please see Annexure III.

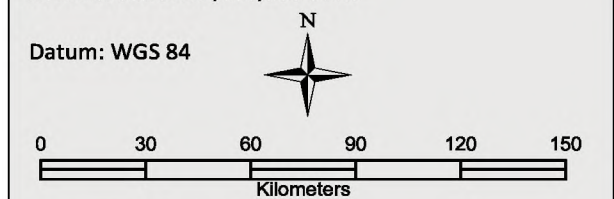
Data Sources

FAO, GAUL, Fauji Fertilizer Company Limited, Rawalpindi

Map Scale and Datum

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

Datum: WGS 84



Date: 24 March 2016

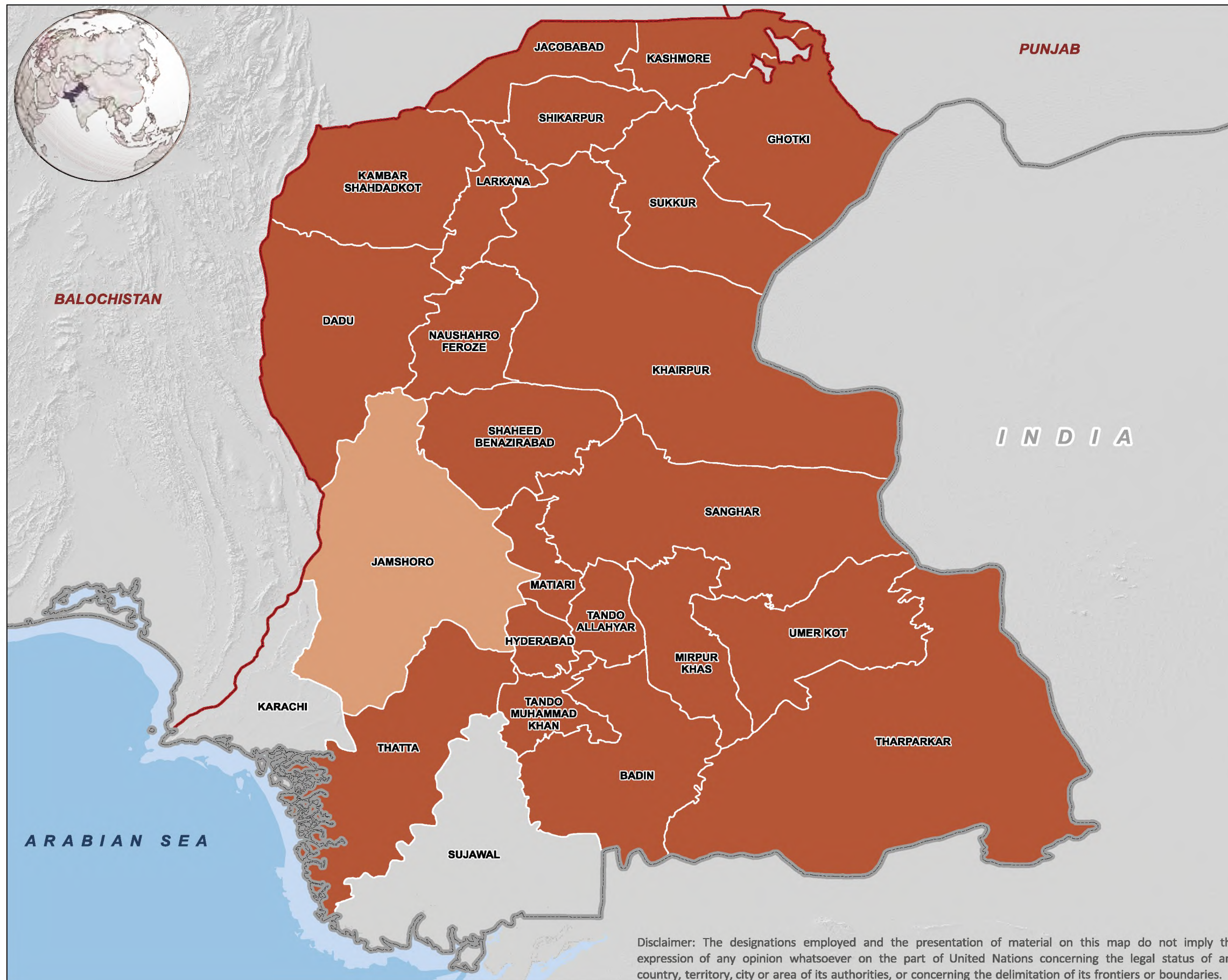
Created by: IM Unit, FAO Pakistan

Map Number: PAK_Soil Fertility Atlas_Sindh_P_15.4_20160324



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DISTRICT-WISE AVERAGE EXTRACTABLE POTASSIUM



Map Legend

Administrative limits

- Country
- Province
- District

Extractable Potassium (ppm)

- Low (≤ 100)
- Marginal (101 - 150)
- Adequate (> 150)
- Data not available

About Map

The map shows fertility status of soils based on extractable potassium. Overall, the soils in all districts except, Jamshoro, of Sindh have adequate K levels. For details, please see Annexure III.

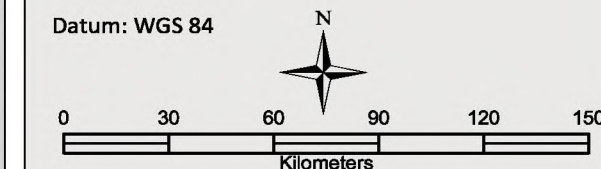
Data Sources

FAO, GAUL, Fauji Fertilizer Company Limited, Rawalpindi

Map Scale and Datum

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

Datum: WGS 84



Date: 24 March 2016

Created by: IM Unit, FAO Pakistan

Map Number: PAK_Soil Fertility Atlas_Sindh_ExtK_15.5_20160324



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