SPRINT – 2

DATA EXPLORATION

TEAM ID	PNT2022TMID41233
PROJECT NAME	ESTIMATE THE CROP YIELDING USING DATA ANALYTICS

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Exploration

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Cards

2.95B
Area

1

Area and Produ..._Name regions

2

Area by Season colored by Crop

Data relationships

Area and Production for State_Name regions

Area (Sum)   Production (Sum)

12,522   433,631,630   63,956.5
97,880,045,375.7

Details

Over all values of **State_Name**, the sum of **Area** is almost 3.0 billion.

Area ranges from almost thirteen thousand, when **State_Name** is Chandigarh, to nearly 434 million, when **State_Name** is Uttar Pradesh.

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Cards

2

Area by Season colored by Crop

3

Data relationships

Area by Season colored by Crop

Crop
- Wheat
- Soyabean
- Rice
- Rapeseed &Mustard
- Maize
- Jowar
- Groundnut
- Gram
- Cotton(lint)
- Bajra

Area (Sum):
500,000,000
400,000,000
300,000,000
200,000,000
100,000,000
0

Autumn   Kharif   Rabi   Summer   Whole Year   Winter

Season

Details

Across all **seasons** and **crops**, the sum of **Area** is over 2.2 billion.

For **Area**, the most significant values of **Season** are Kharif and Rabi, whose respective **Area** values add up to nearly 1.9 billion, or 84.2 % of the total.

For **Area**, the most significant values of **Crop** are Rice and Wheat, whose respective **Area** values add up to over 1.2 billion, or 54.9 % of the total.

The summed values of **Area** range from 30 to over 466 million.

Area is unusually high when the combinations of **Season** and **Crop** are Rabi

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Cards

Area by Season colored by Crop

Crop
- Wheat
- Rapeseed &Mustard
- Groundnut
- Bajra
- Soyabean
- Maize
- Gram
- Rice
- Jowar
- Cotton(lint)

Area (Sum)

500,000,000
400,000,000
300,000,000
200,000,000
100,000,000
0

Autumn   Kharif   Rabi   Summer   Whole Year   Winter

Season

Details

Area values add up to nearly 1.9 billion, or 84.2 % of the total.

For **Area**, the most significant values of **Crop** are Rice and Wheat, whose respective **Area** values add up to over 1.2 billion, or 54.9 % of the total.

The summed values of **Area** range from 30 to over 466 million.

Area is unusually high when the combinations of **Season** and **Crop** are Rabi and Wheat and Kharif and Rice.

Area is unusually high when **Crop** is Rice.

Area is unusually high when **Season** is Kharif.

Data relationships

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Cards

Area and Production by Season

Column
- Production (Sum)

Line
- Area (Sum)

Production (Sum)

200,000,000,000

150,000,000,000

100,000,000,000

50,000,000,000

0

Area (Sum)

2,000,000,000

1,500,000,000

1,000,000,000

500,000,000

0

Autumn   Kharif   Rabi   Summer   Whole Year   Winter

Season

Area by Crop_Y...olored by Crop

Data relationships

Details

Over all **seasons**, the sum of **Production** is approximately 141 billion.

Production ranges from over 64 million, when **Season** is Autumn, to approximately 134 billion, when **Season** is Whole Year.

Production is unusually high when **Season** is Whole Year.

Over all **seasons**, the sum of **Area** is almost 3.0 billion.

For **Area**, the most significant values of **Season** are Kharif and Rabi, whose respective **Area** values add up to almost 2.4 billion, or 79.7 % of the total.

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Cards

Area and Production by Season

Area by Crop_Y...olored by Crop

Data relationships

Area and Production by Season

Column
- Production (Sum)

Line
- Area (Sum)

Production (Sum)
200,000,000,000
150,000,000,000
100,000,000,000
50,000,000,000
0

Area (Sum)
2,000,000,000
1,500,000,000
1,000,000,000
500,000,000
0

Autumn Kharif Rabi Summer Whole Year Winter

Season

Details

134 billion, when **Season** is Whole Year.

Production is unusually high when **Season** is Whole Year.

Over all **seasons**, the sum of **Area** is almost 3.0 billion.

For **Area**, the most significant values of **Season** are Kharif and Rabi, whose respective **Area** values add up to almost 2.4 billion, or 79.7 % of the total.

Area ranges from over 48 million, when **Season** is Autumn, to over 1.4 billion, when **Season** is Kharif.

Area is unusually high when **Season** is Kharif.

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Cards

Area by Crop_Y...olored by Crop

Data relationships

Area by Crop_Year colored by Crop

Crop
- Wheat
- Rapeseed &Mustard
- Groundnut
- Bajra
- Soyabean
- Maize
- Gram
- Rice
- Jowar
- Cotton(lint)

Area (Sum)
100,000,000
50,000,000
0

1997 1999 2001 2003 2005 2007 2009 2011 2013
1998 2000 2002 2004 2006 2008 2010 2012 2014

Crop_Year

Details

For **Area**, the most significant values of **Crop_Year** are 2010, 2008, 2006, 2004, and 2009, whose respective **Area** values add up to almost 666 million, or 30 % of the total.

Area is unusually low when **Crop_Year** is 2015.

Across all values of **Crop_Year** and Crop, the sum of **Area** is over 2.2 billion.

For **Area**, the most significant values of **Crop** are Rice and Wheat, whose respective **Area** values add up to over 1.2 billion, or 54.9 % of the total.

The summed values of **Area** range from 690 to nearly 48 million.

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Cards

Area by Crop_Y...olored by Crop

Data relationships

Area by Crop_Year colored by Crop

Crop
- Wheat
- Rapeseed &Mustard
- Groundnut
- Bajra
- Soyabean
- Maize
- Gram
- Rice
- Jowar
- Cotton(lint)

Area (Sum)

100,000,000

50,000,000

0

1997 1999 2001 2003 2005 2007 2009 2011 2013
1998 2000 2002 2004 2006 2008 2010 2012 2014

Crop_Year

Details

Area is unusually low when **Crop_Year** is 2015.

Across all values of **Crop_Year** and **Crop**, the sum of **Area** is over 2.2 billion.

For **Area**, the most significant values of **Crop** are Rice and Wheat, whose respective **Area** values add up to over 1.2 billion, or 54.9 % of the total.

The summed values of **Area** range from 690 to nearly 48 million.

Area is unusually high when the combination of **Crop_Year** and **Crop** is 2012 and Rice.

Area is unusually high when **Crop** is Rice.

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Cards

Area and Produ... District_Name

Crop_Year color... sized by Area

Data relationships

Area and Production for District_Name

MURSHIDABAD   NADIA BARMER   AHMEDNAGAR   AURANGABAD

100%

80%

Area (Sum)

60%

40%

20%

0%

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Production (Sum) 1

Details

Over all values of **District_Name**, the sum of **Area** is almost 205 million.

For **Area**, the most significant values of **District_Name** are MURSHIDABAD, NADIA, and GULBARGA, whose respective **Area** values add up to over 70 million, or 34.3 % of the total.

Area ranges from over 18 million, when **District_Name** is BARDHAMAN, to over 24 million, when **District_Name** is MURSHIDABAD.