

# Sneed:

## K Means analysis

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# Sneed



# My Problem

- Higgs Honors Thesis 2014



# Data Collection:

- Austin College Environmental Studies & Biology Department
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# Data Cleanup

- pdfs, excel, pandas
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# Method of Analysis

## K Means

### Fields:

- FM1
- CM1

### Grasses

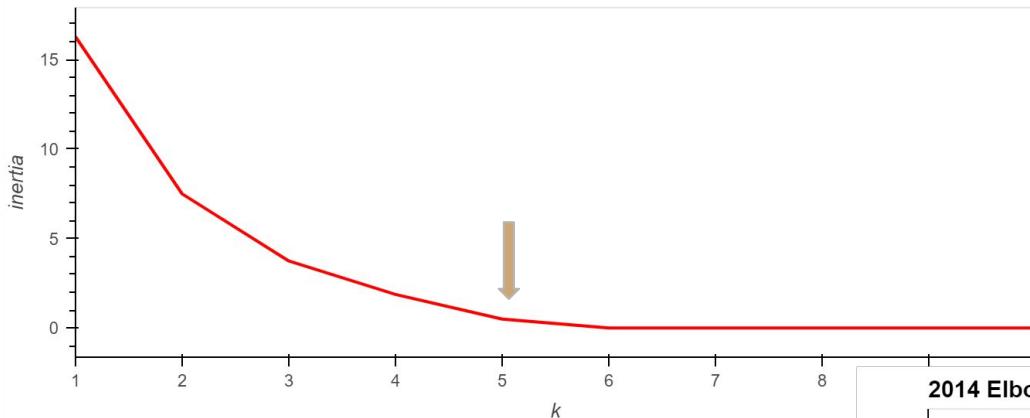
- Indian Grass
- Little Blue Stem
- Big Blue Stem

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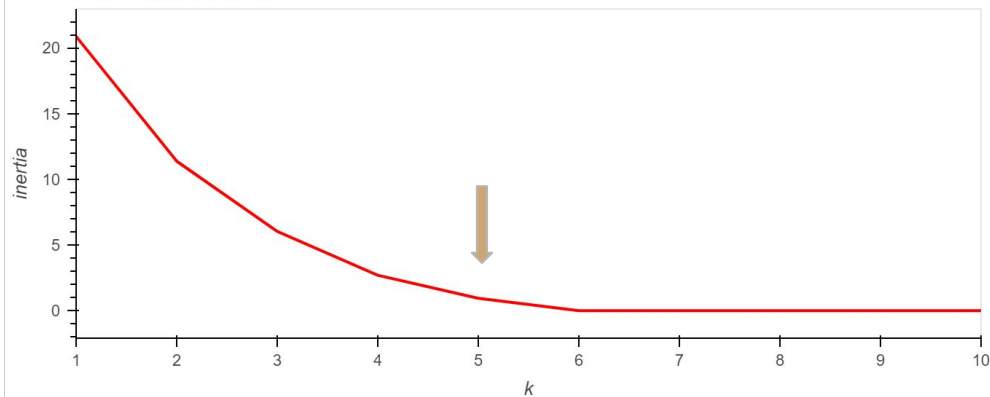
# Results: 2004 Elbow Curve FM1

$K = 5$

FM1 2004 Elbow Curve

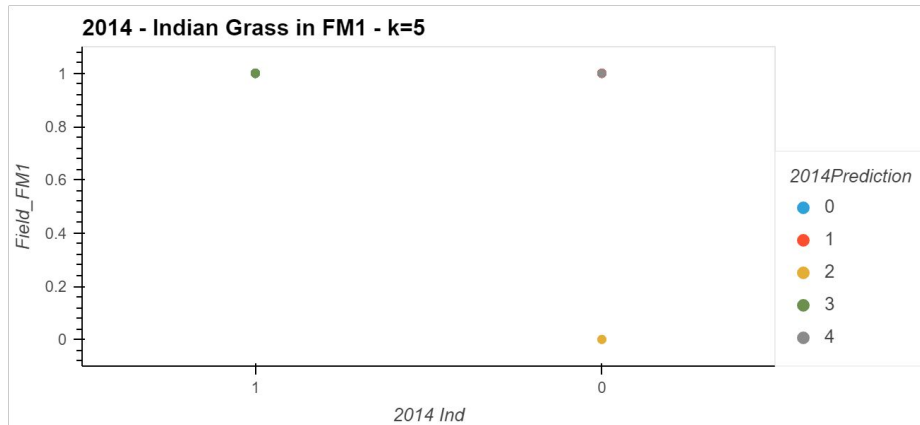
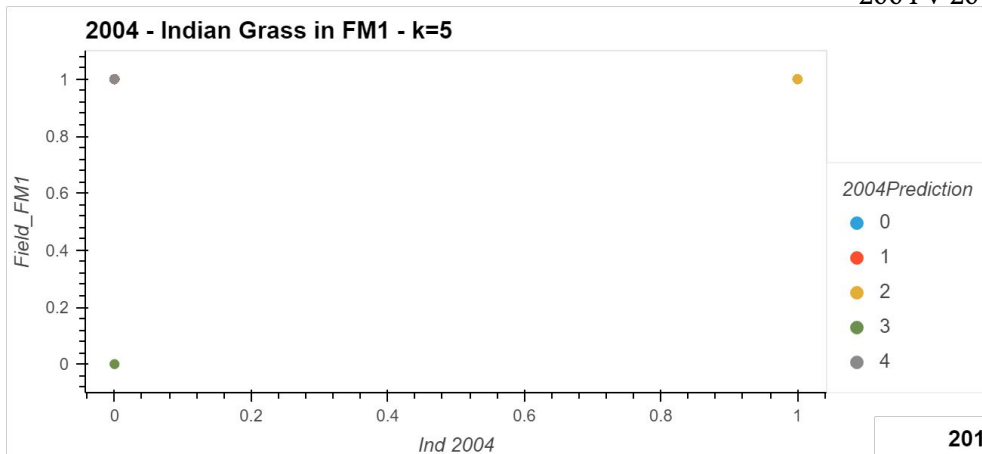


2014 Elbow Curve



# Results: FM1 v Indian Grass

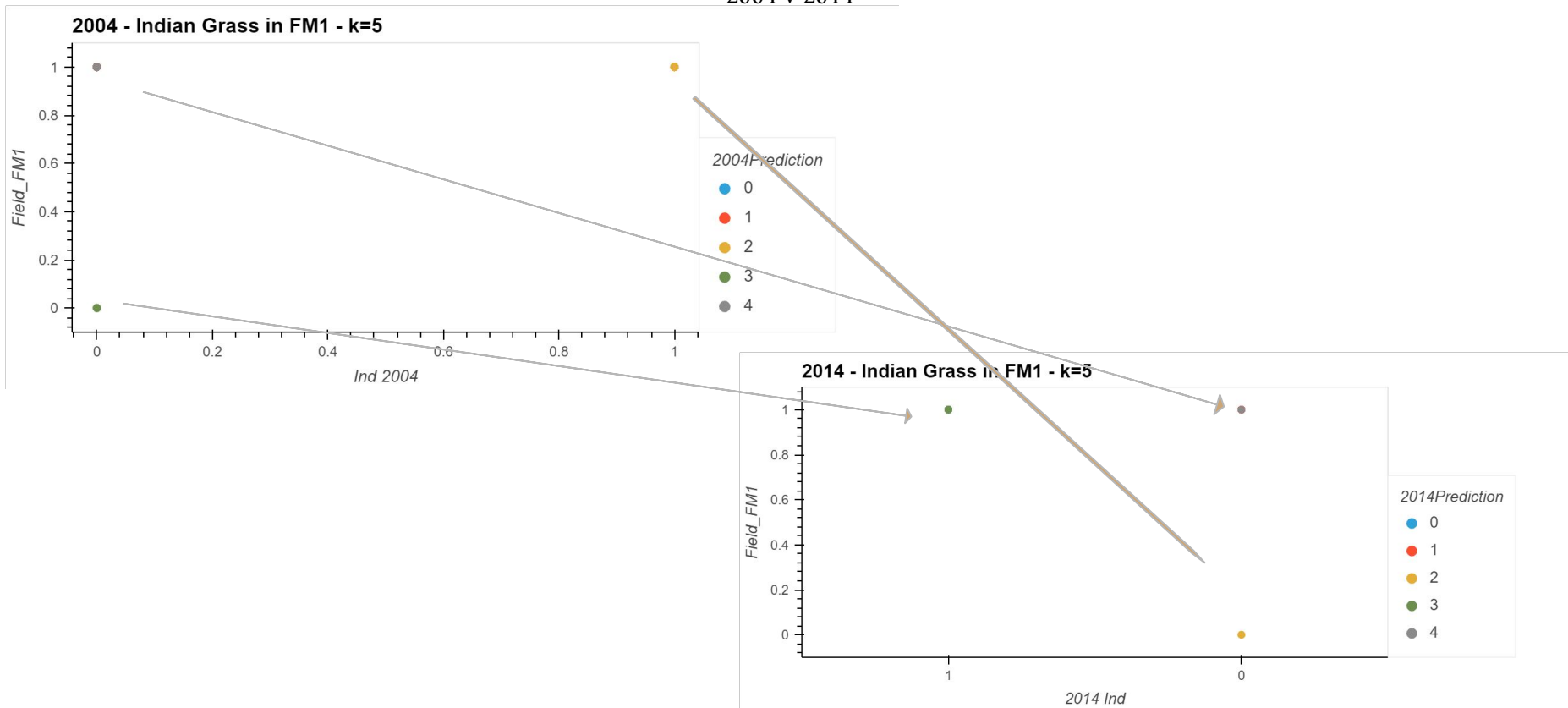
2004 v 2014





# Results: FM1 v Indian Grass

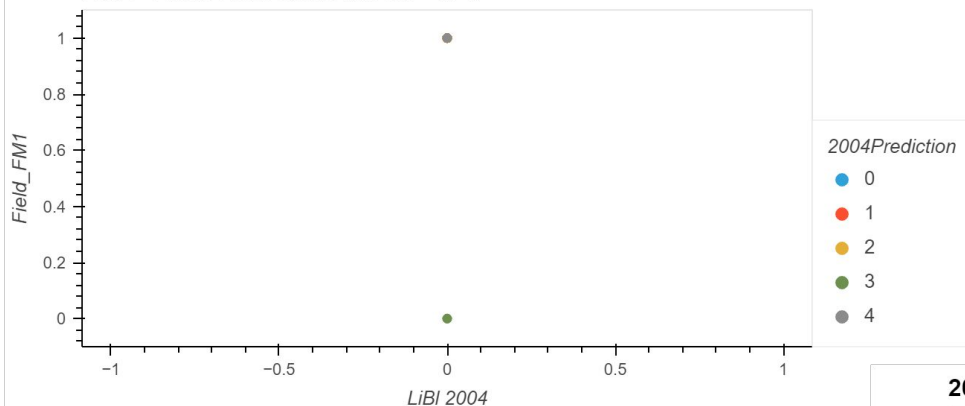
2004 v 2014



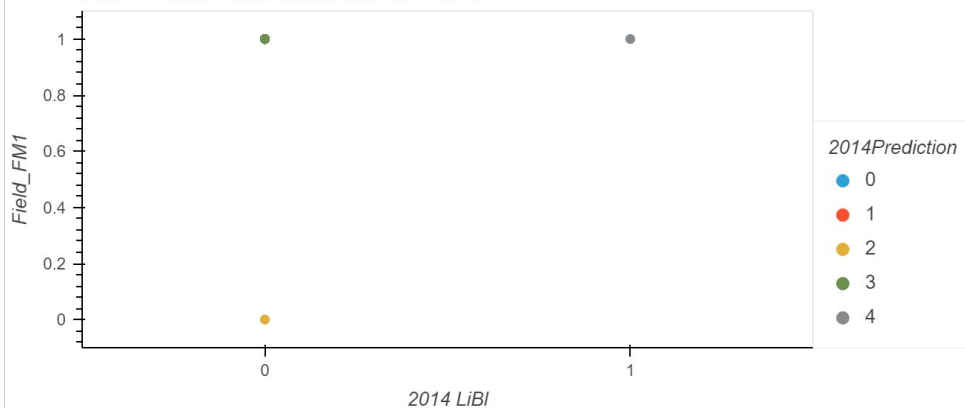
# Results: FM1 v Little Blue Stem

2004 v 2014

2004 - Little Blue Stem in FM1 - k=5

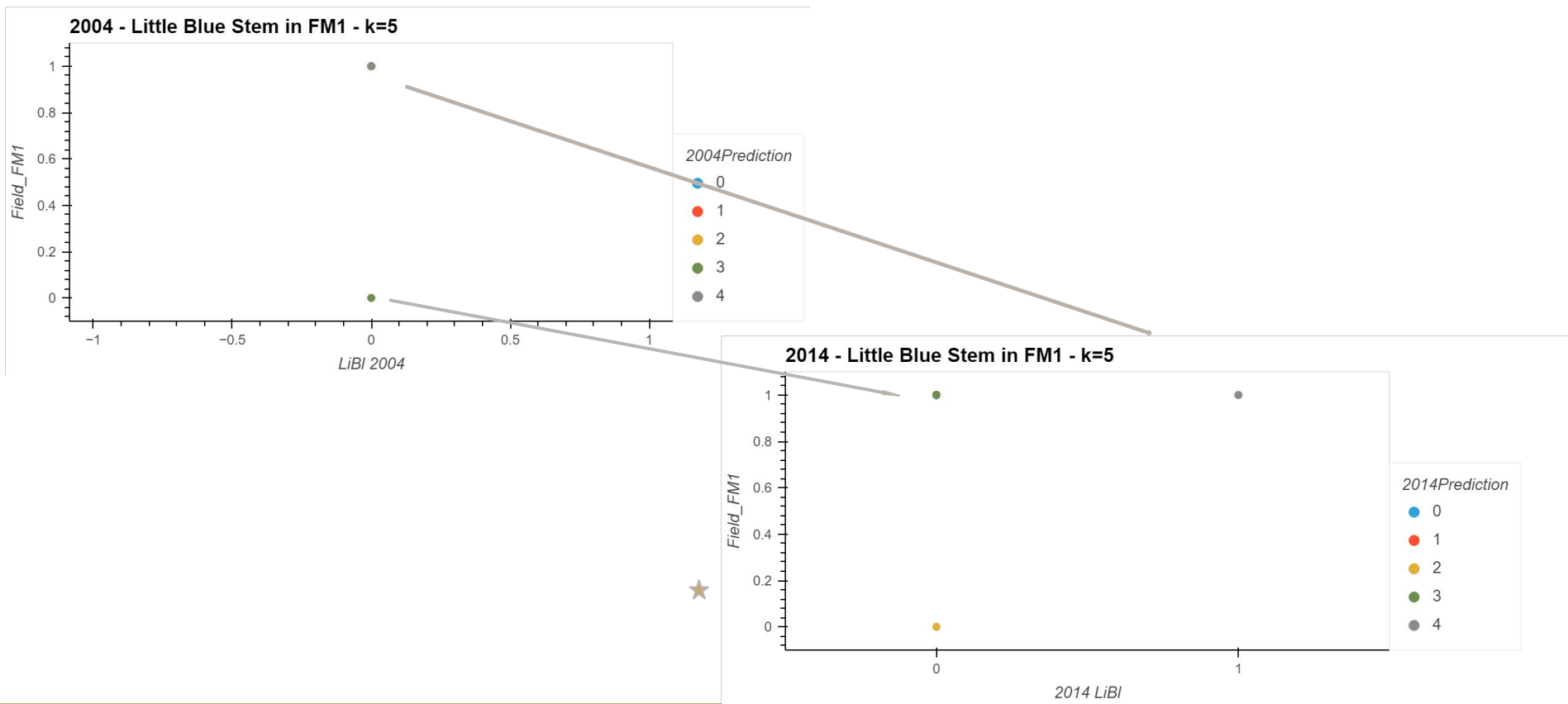


2014 - Little Blue Stem in FM1 - k=5



# Results: FM1 v Little Blue Stem

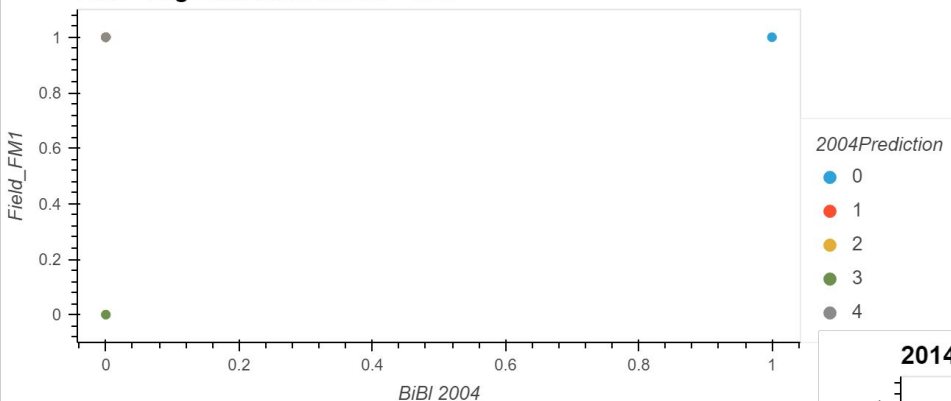
2004 v 2014



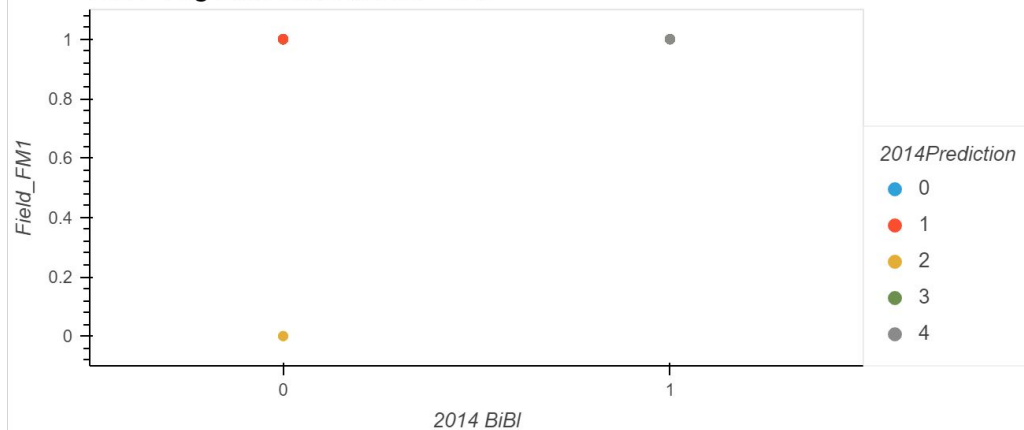
# Results: FM1 v Big Blue Stem

2004 v 2014

2004 - Big Blue Stem in FM1 - k=5



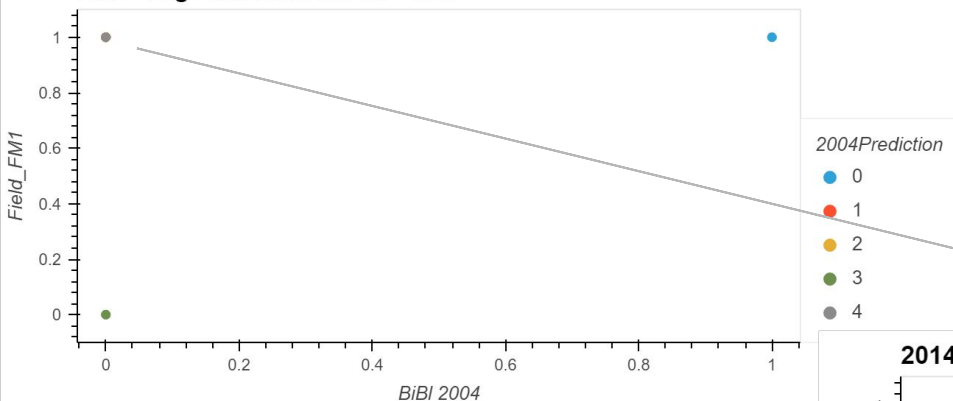
2014 - Big Blue Stem in FM1 - k=5



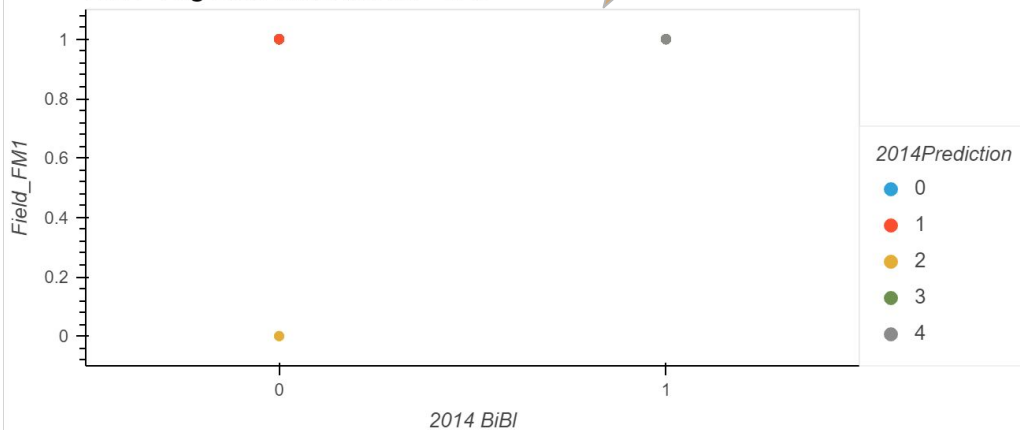
# Results: FM1 v Big Blue Stem

2004 v 2014

2004 - Big Blue Stem in FM1 - k=5



2014 - Big Blue Stem in FM1 - k=5



# Future Direction

Questions?