CHRISTOPHER PRENER, PH.D.
SPRING, 2017

WEEK 06
SUPPLEMENT

INTRO TO GIS$_C$

DESIGNING SMALL MULTIPLES

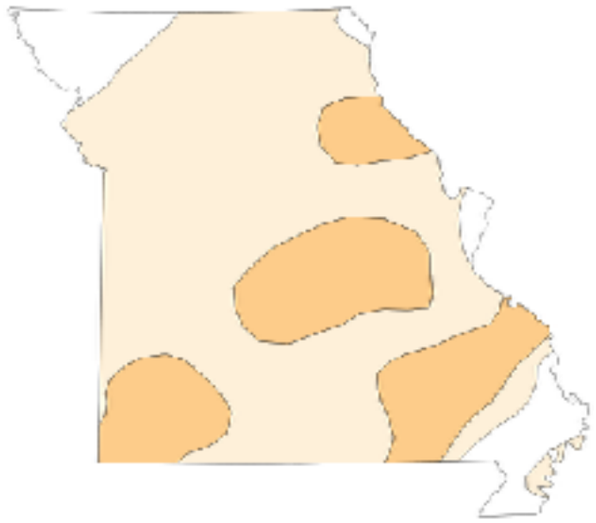
GENERAL DESIGN POINTS

- Use identical color scheme for each multiple.
- Use identical number of breaks and class cut points for each multiple, even if that means that some multiples do not have data for all possible classes.
- Be mindful of need to balance resolution of data with the number of multiples possible in the medium you are working in. In general, presentations < print < web in terms of number of possible multiples.
- Order multiples in logical manner (by date, for example).
- Multiples should be similar to thematic maps - limited ground layers and labeling. Let the data, and how it varies between multiples, be the center of attention.

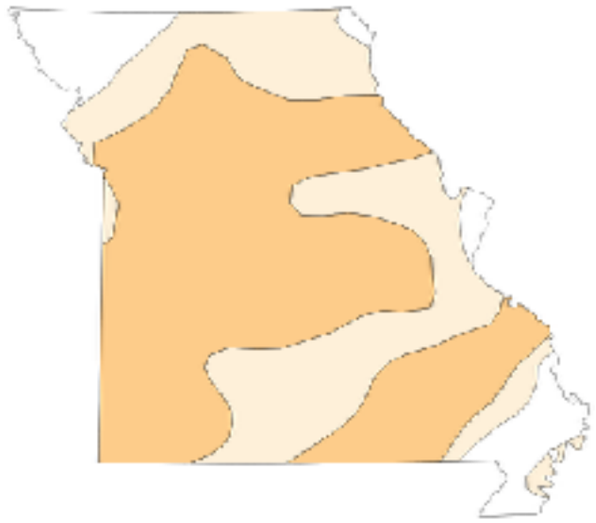
DROUGHT CONDITIONS – PRESENTATION LAYOUT 1

12/27/16

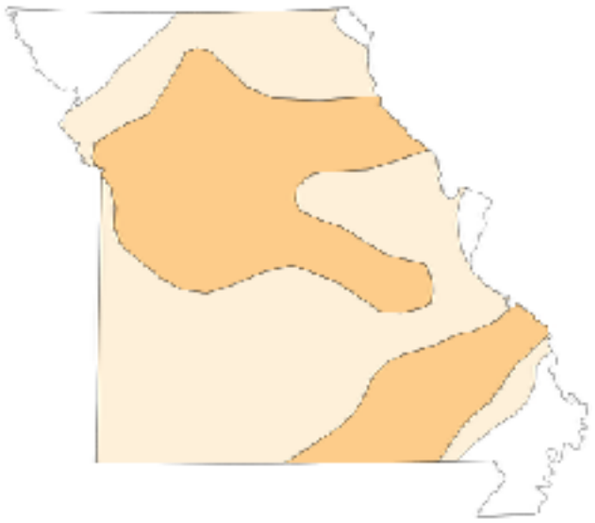
1/3/17



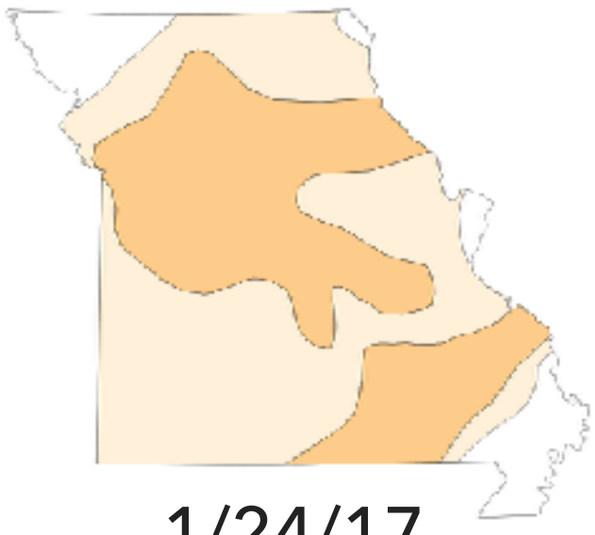
1/10/17



1/17/17



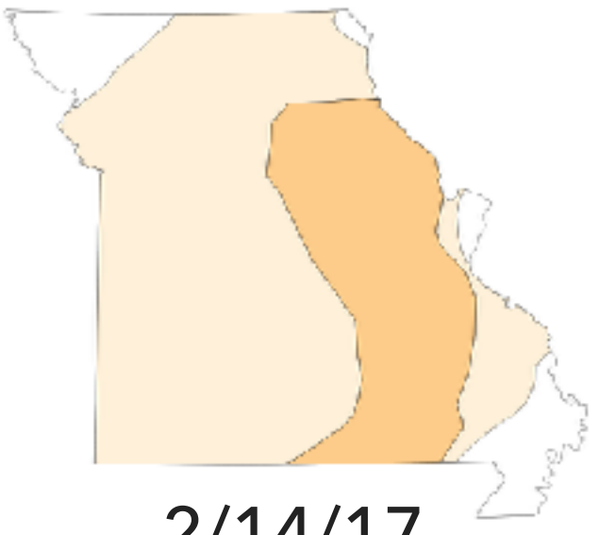
1/24/17



1/31/17

2/7/17

2/14/17



Abnormally Dry	Moderate Drought	Severe Drought	Extreme Drought	Exceptional Drought

Projection: UTM 15N

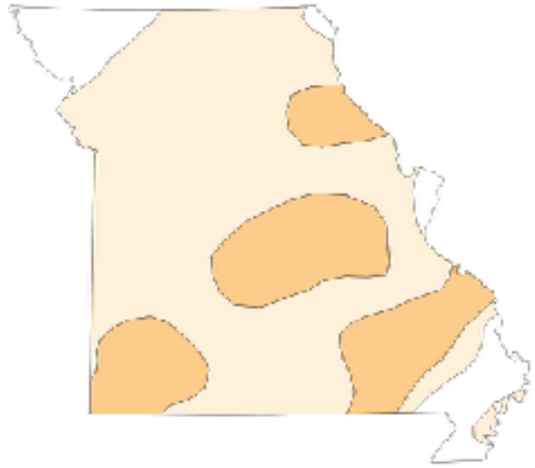
Data via The National Drought Mitigation Center

DROUGHT CONDITIONS – PRESENTATION LAYOUT 2

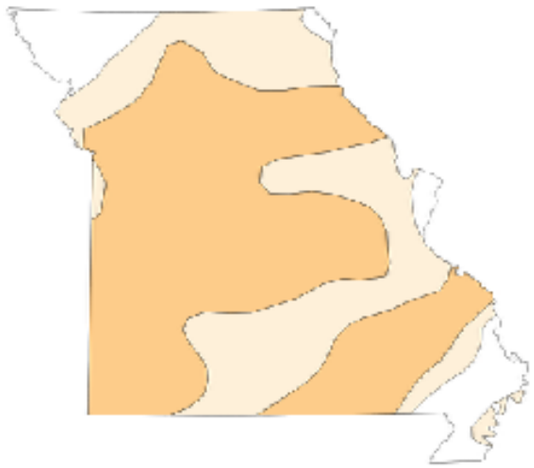
12/20/16

12/27/16

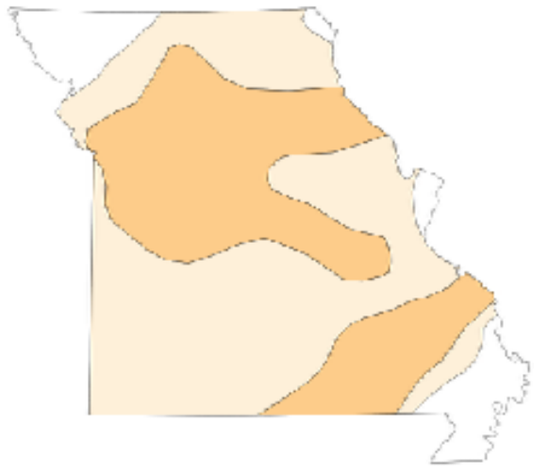
1/3/17



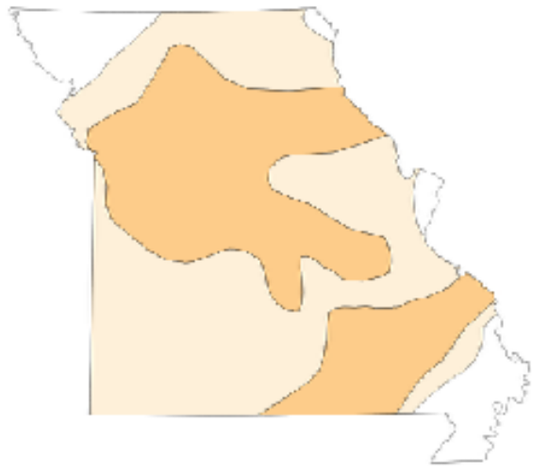
1/10/17



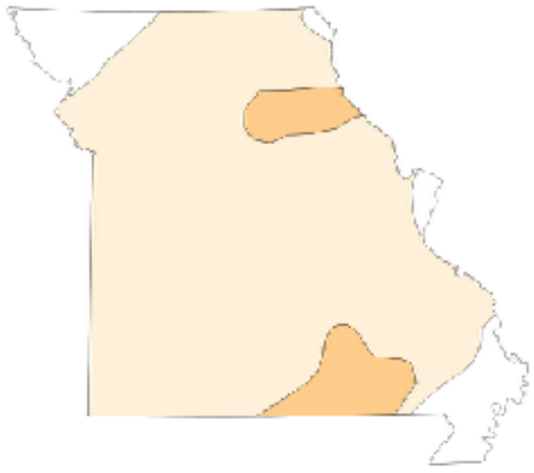
1/17/17



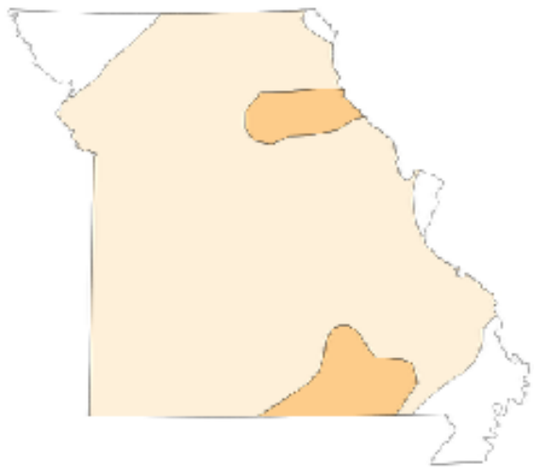
1/24/17



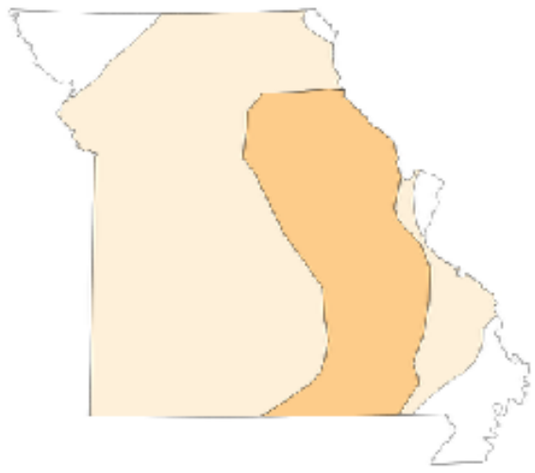
1/31/17



2/7/17



2/14/17



Abnormally Dry

Moderate Drought

Severe Drought

Extreme Drought

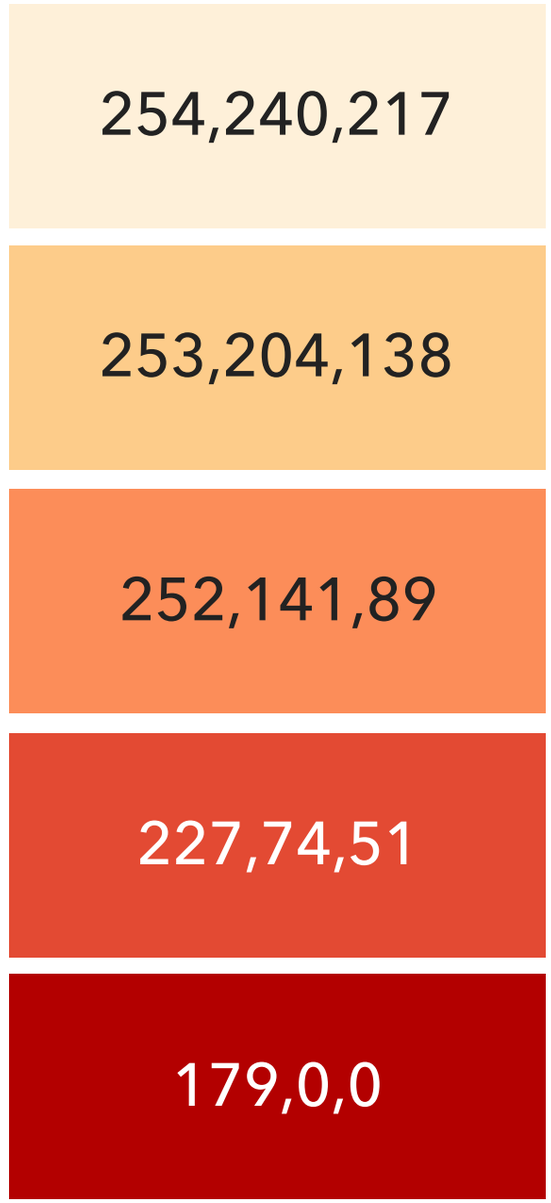
Exceptional Drought

Data via The National Drought Mitigation Center

Projection: UTM 15N

PRESENTATION LAYOUTS

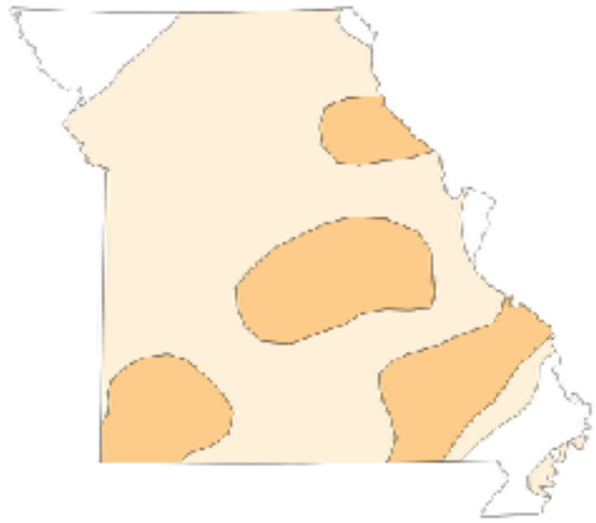
- Maps are 238pt by 216pt on layout 1 and 213pt by 194pt on layout 2
- Color values shown on key: 5-class OrRd, selected via Color Brewer website
- Color ramp is colorblind and LCD friendly, possibly not photocopier friendly, and not print friendly; selected because this is similar to the color ramp used by many drought graphics.
- Title font is DIN Condensed 62pt (normally use 72pt for titles in this font)
- Body font is Avenir Next, 28pt for labels, 24pt for key, and 22pt for notes



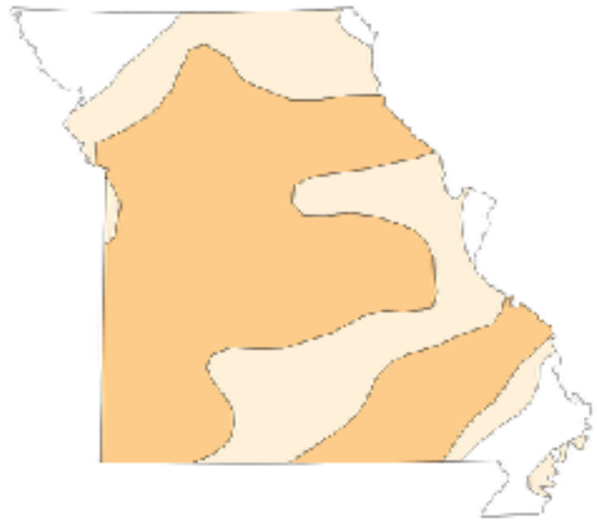
DROUGHT CONDITIONS – PRINT LAYOUT 1

12/27/16

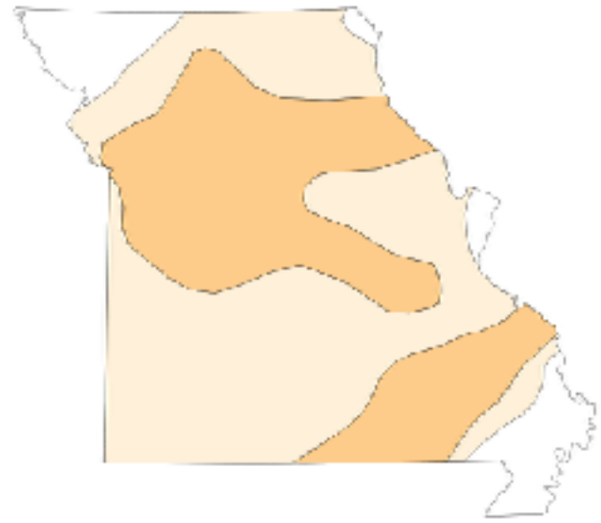
1/3/17



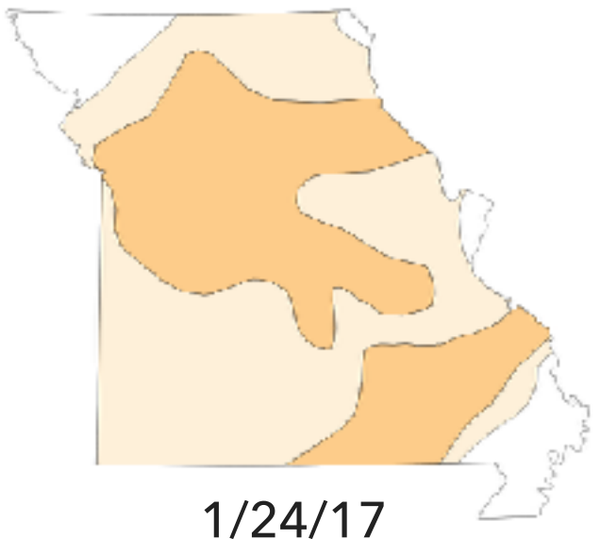
1/10/17



1/17/17



1/24/17



1/31/17

2/7/17

2/14/17

Abnormally Dry

Moderate Drought

Severe Drought

Extreme Drought

Exceptional Drought

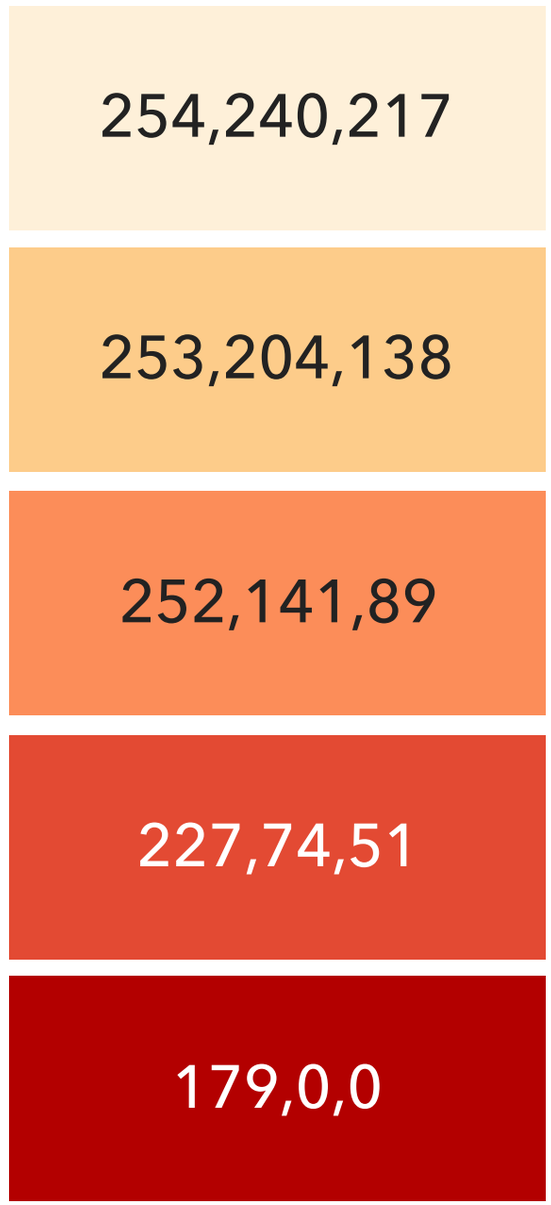
Data via The National Drought Mitigation Center
http://droughtmonitor.unl.edu

Projected Coordinate System: UTM 15N

Christopher Prener, Ph.D.

PRINT LAYOUT 1

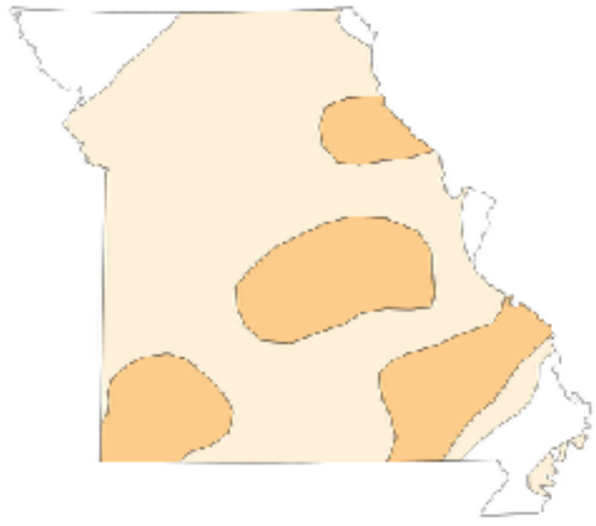
- Maps are 238pt by 216pt
- Color values shown on key: 5-class OrRd, selected via Color Brewer website
- Color ramp is colorblind and LCD friendly, possibly not photocopier friendly, and not print friendly; selected because this is similar to the color ramp used by many drought graphics.
- Title font is DIN Condensed 62pt
- Body font is Avenir Next, 20pt for labels, 18pt for key, and 16pt for notes



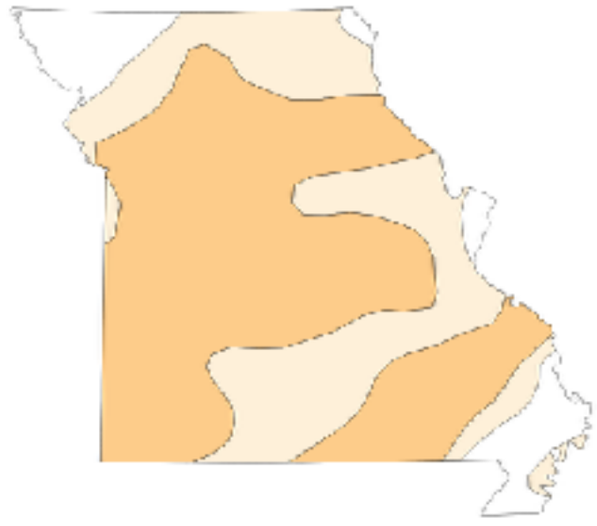
DROUGHT CONDITIONS – PRINT LAYOUT 2

12/27/16

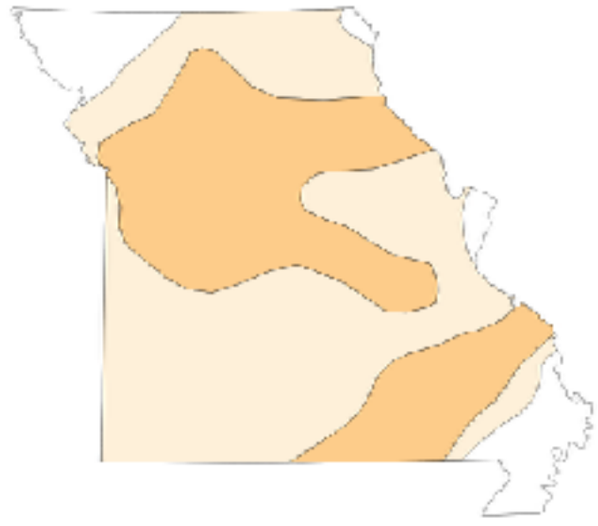
1/3/17

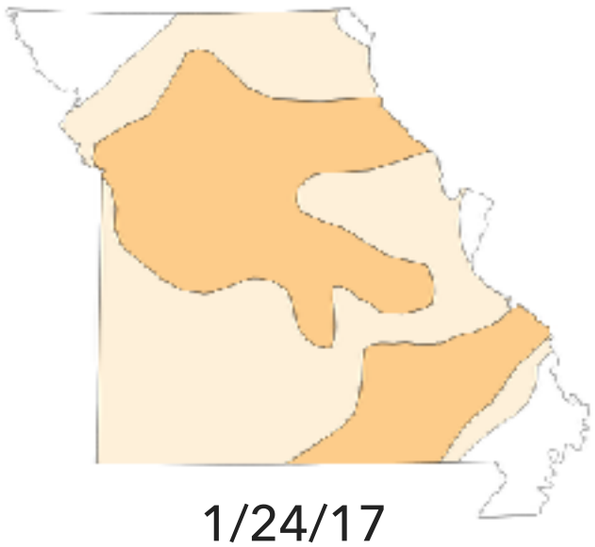


1/10/17



1/17/17





1/24/17

1/31/17

2/7/17

2/14/17

Abnormally Dry	Moderate Drought	Severe Drought	Extreme Drought	Exceptional Drought

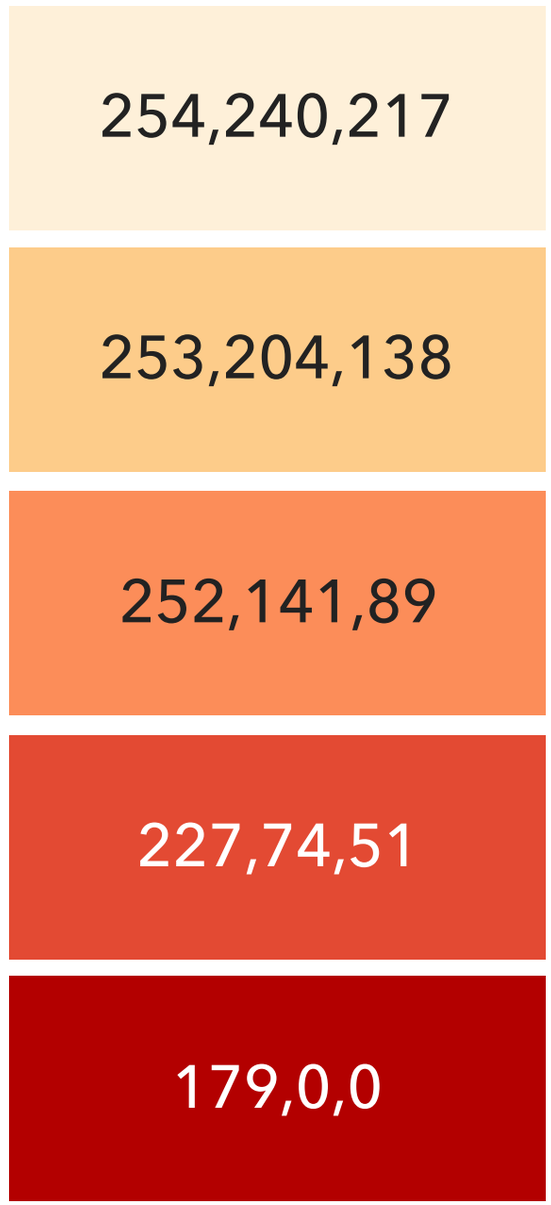
Data via The National Drought Mitigation Center
http://droughtmonitor.unl.edu

Projected Coordinate System: UTM 15N

Christopher Prener, Ph.D.

PRINT LAYOUT 2

- Maps are 238pt by 216pt
- Color values shown on key: 5-class OrRd, selected via Color Brewer website
- Color ramp is colorblind and LCD friendly, possibly not photocopier friendly, and not print friendly; selected because this is similar to the color ramp used by many drought graphics.
- Title font is DIN Condensed 72pt
- Body font is Avenir Next, 20pt for labels, 18pt for key, and 16pt for notes

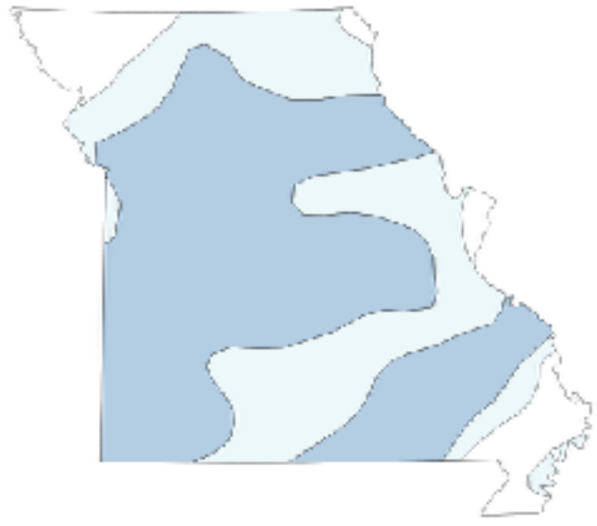


DROUGHT CONDITIONS – PRINT LAYOUT 3

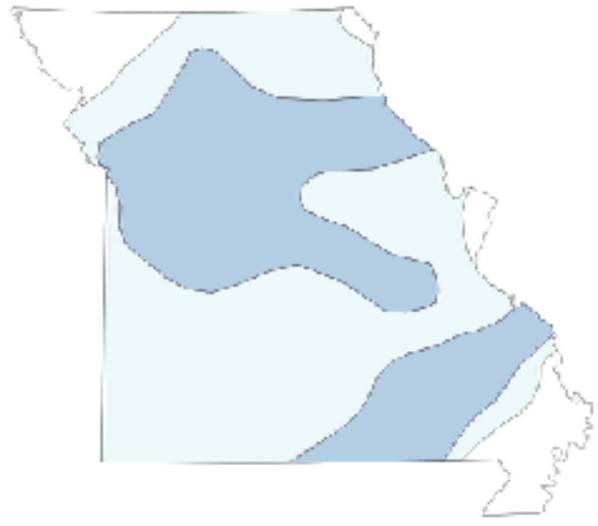
12/27/16

1/3/17

1/10/17



1/17/17



1/24/17

1/31/17

2/7/17

2/14/17

Abnormally Dry	Moderate Drought	Severe Drought	Extreme Drought	Exceptional Drought

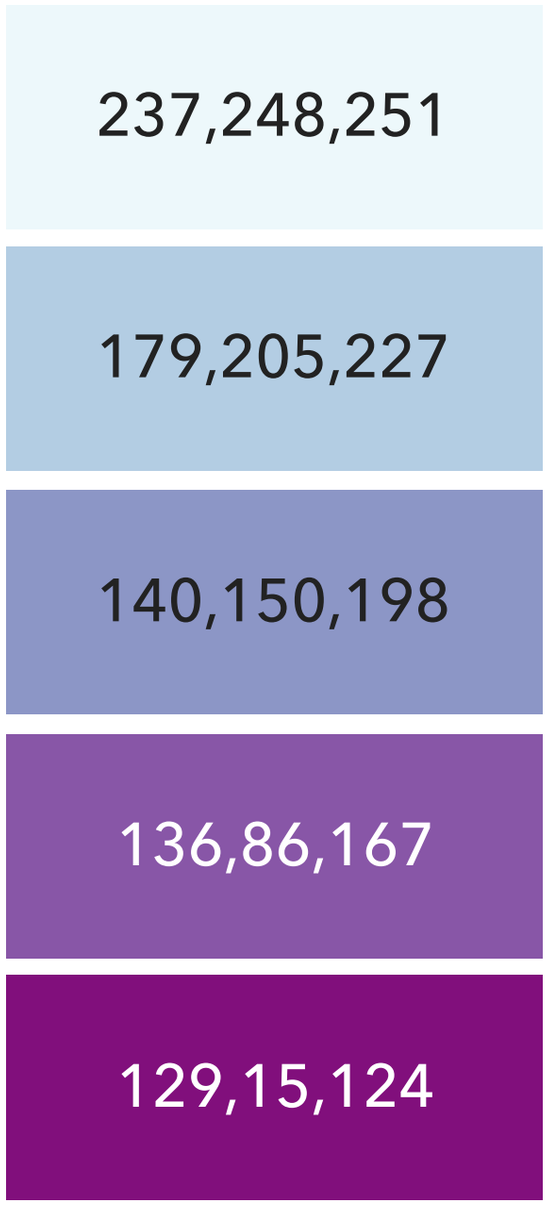
Data via The National Drought Mitigation Center
http://droughtmonitor.unl.edu

Projected Coordinate System: UTM 15N

Christopher Prener, Ph.D.

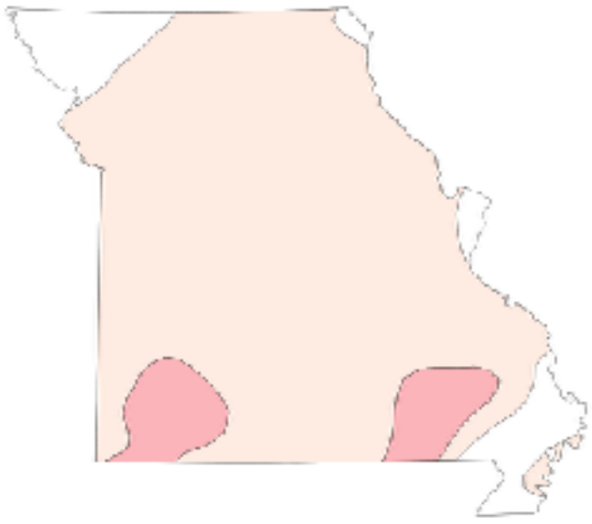
PRINT LAYOUT 3

- Maps are 238pt by 216pt
- Color values shown on key: 5-class BuPu, selected via Color Brewer website
- Color ramp is colorblind and LCD friendly, not photocopier friendly, and possibly not print friendly
- Title font is DIN Condensed 72pt
- Body font is Avenir Next, 20pt for labels, 18pt for key, and 16pt for notes

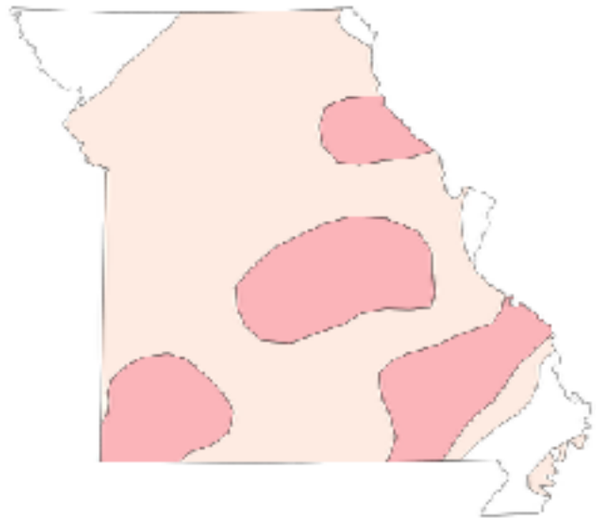


DROUGHT CONDITIONS – PRINT LAYOUT 4

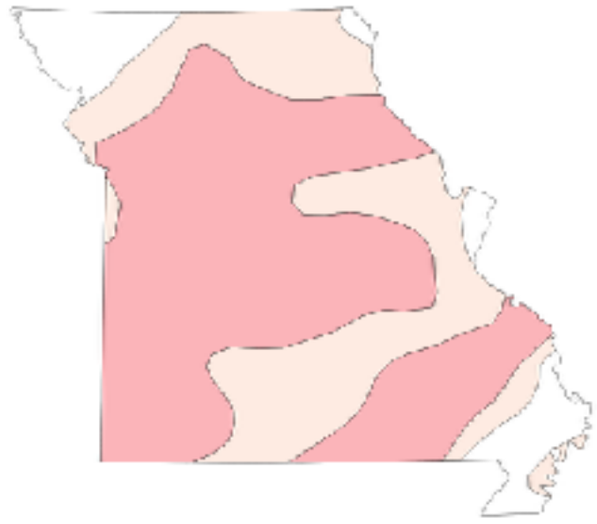
12/27/16



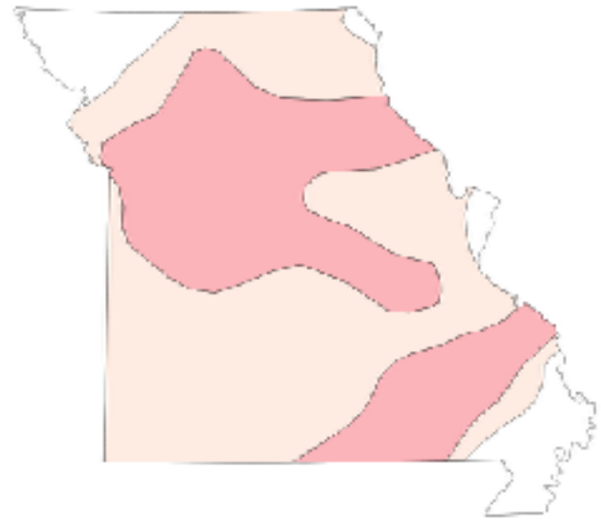
1/3/17

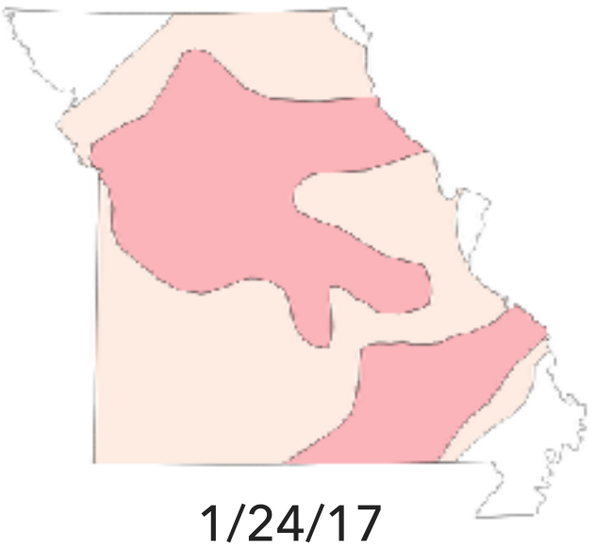


1/10/17

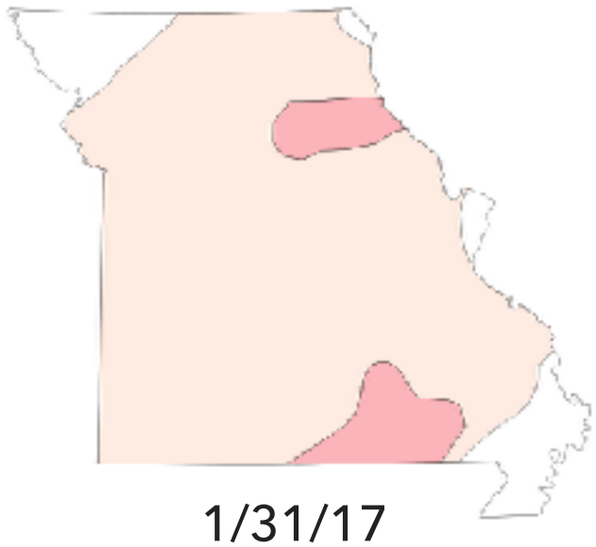


1/17/17

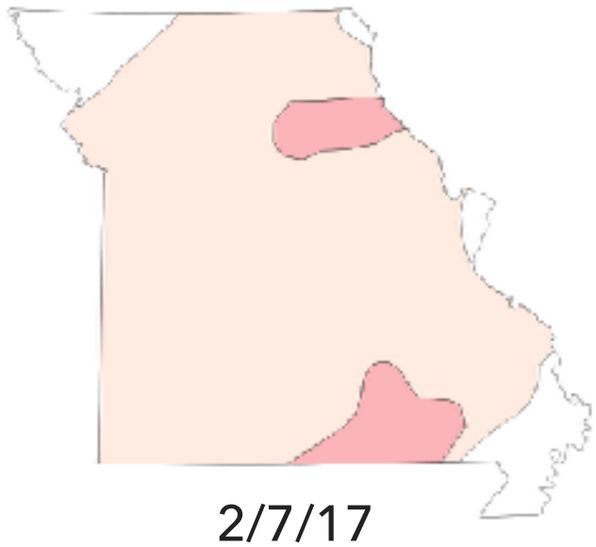




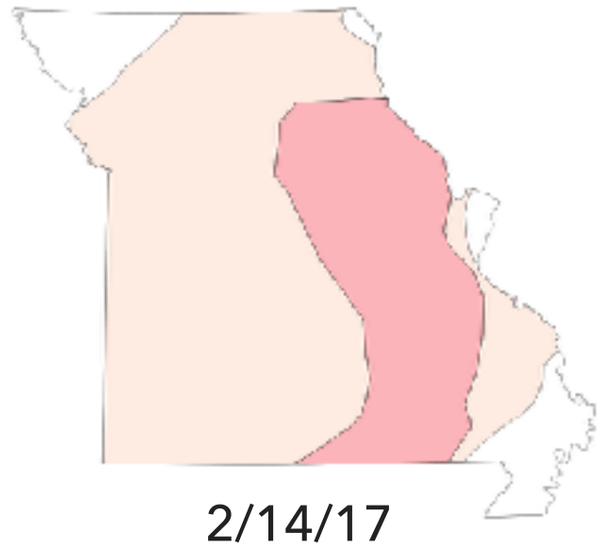
1/24/17



1/31/17



2/7/17



2/14/17

Abnormally Dry	Moderate Drought	Severe Drought	Extreme Drought	Exceptional Drought

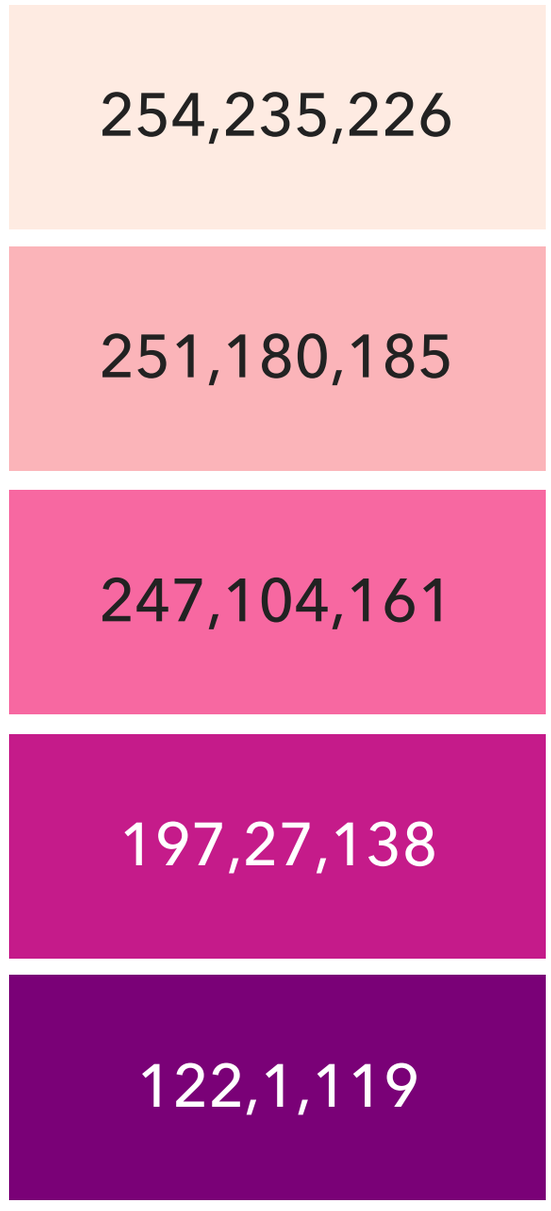
Data via The National Drought Mitigation Center
http://droughtmonitor.unl.edu

Projected Coordinate System: UTM 15N

Christopher Prener, Ph.D.

PRINT LAYOUT 4

- Maps are 238pt by 216pt
- Color values shown on key: 5-class RdPu, selected via Color Brewer website
- Color ramp is colorblind, LCD friendly, and print friendly, but not photocopier friendly
- Title font is DIN Condensed 72pt
- Body font is Avenir Next, 20pt for labels, 18pt for key, and 16pt for notes



DROUGHT CONDITIONS – PRINT LAYOUT 5

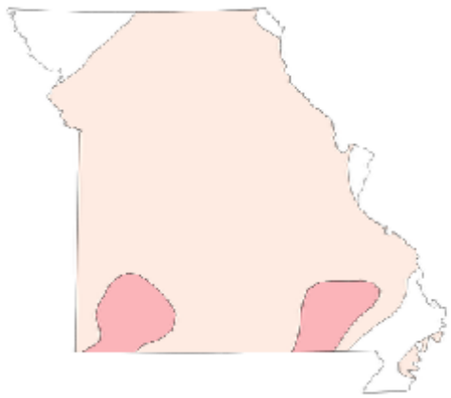
11/29/16

12/6/16

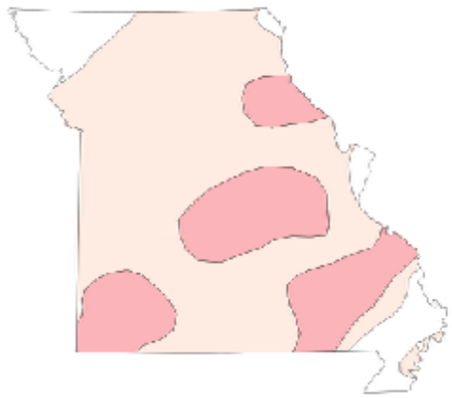
12/13/16

12/20/16

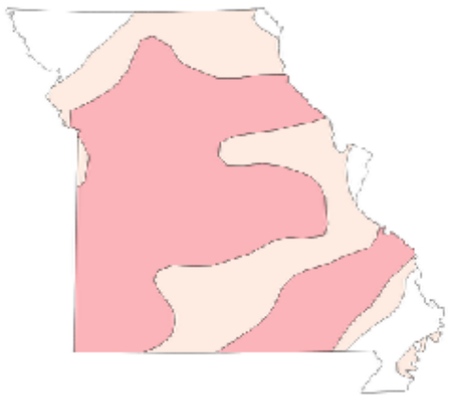
12/27/16



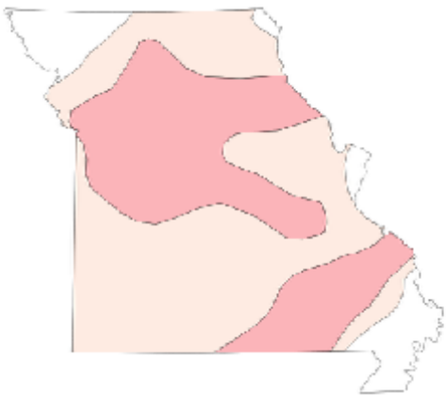
1/3/17



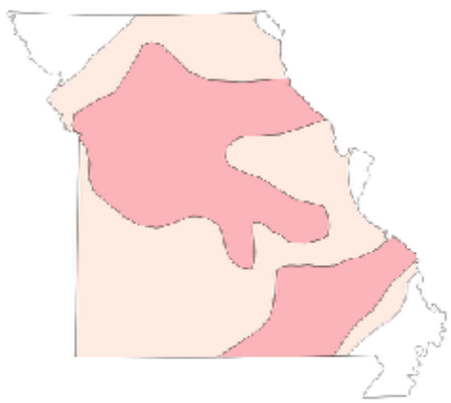
1/10/17



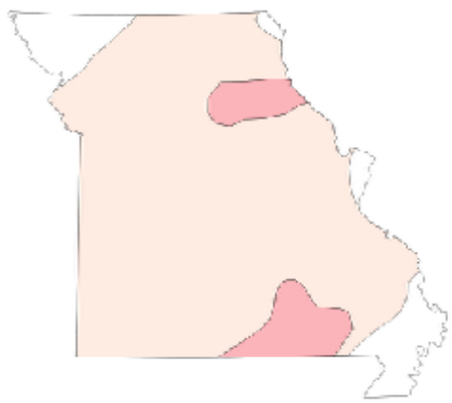
1/17/17



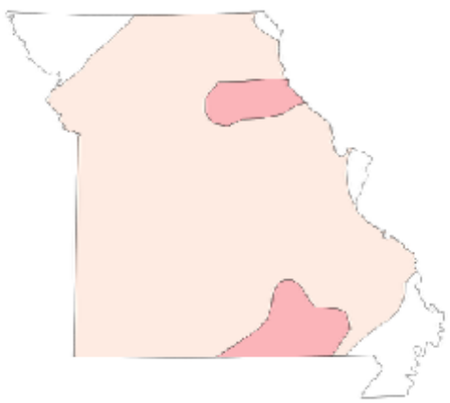
1/24/17



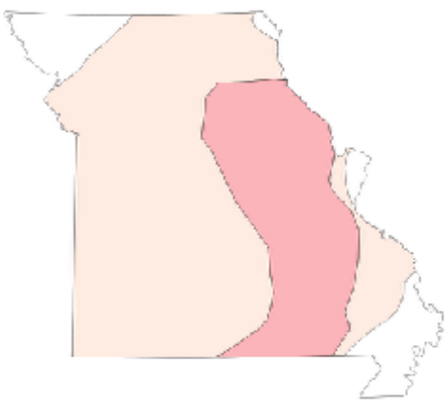
1/31/17



2/7/14



2/14/17



Abnormally Dry

Moderate Drought

Severe Drought

Extreme Drought

Exceptional Drought

Data via The National Drought Mitigation Center
http://droughtmonitor.unl.edu

Projected Coordinate System: UTM 15N

Christopher Prener, Ph.D.

PRINT LAYOUT 5

- Maps are 180pt by 164pt to accommodate four additional weeks of data
- Color values shown on key: 5-class RdPu, selected via Color Brewer website
- Color ramp is colorblind, LCD friendly, and print friendly, but not photocopier friendly
- Title font is DIN Condensed 62pt
- Body font is Avenir Next, 20pt for labels, 18pt for key, and 16pt for notes

254,235,226

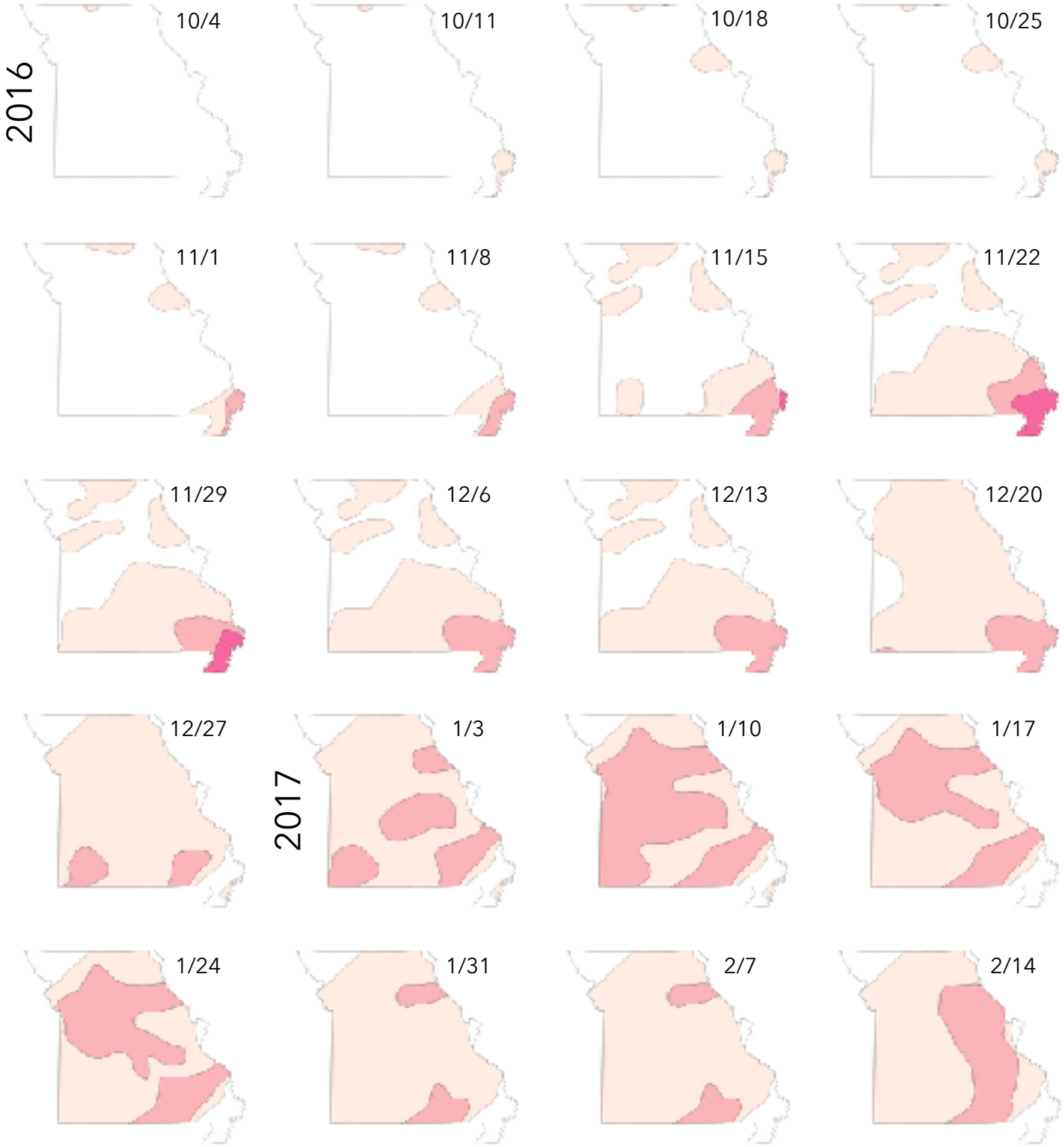
251,180,185

247,104,161

197,27,138

122,1,119

DROUGHT CONDITIONS – PRINT LAYOUT 6



Abnormally Dry	Moderate Drought	Severe Drought	Extreme Drought	Exceptional Drought

Data via The National Drought Mitigation Center - http://droughtmonitor.unl.edu

Projected Coordinate System: UTM 15N

Christopher Prener, Ph.D.

PRINT LAYOUT 6

- Maps are 180pt by 164pt to accommodate eight additional weeks of data that span the entire length of Missouri's current dry spell
- Color values shown on key: 5-class RdPu, selected via Color Brewer website
- Color ramp is colorblind, LCD friendly, and print friendly, but not photocopier friendly
- Title font is DIN Condensed 40pt
- Body font is Avenir Next, 18pt for year labels, 11pt for date labels, 12pt for key, and 10pt for notes