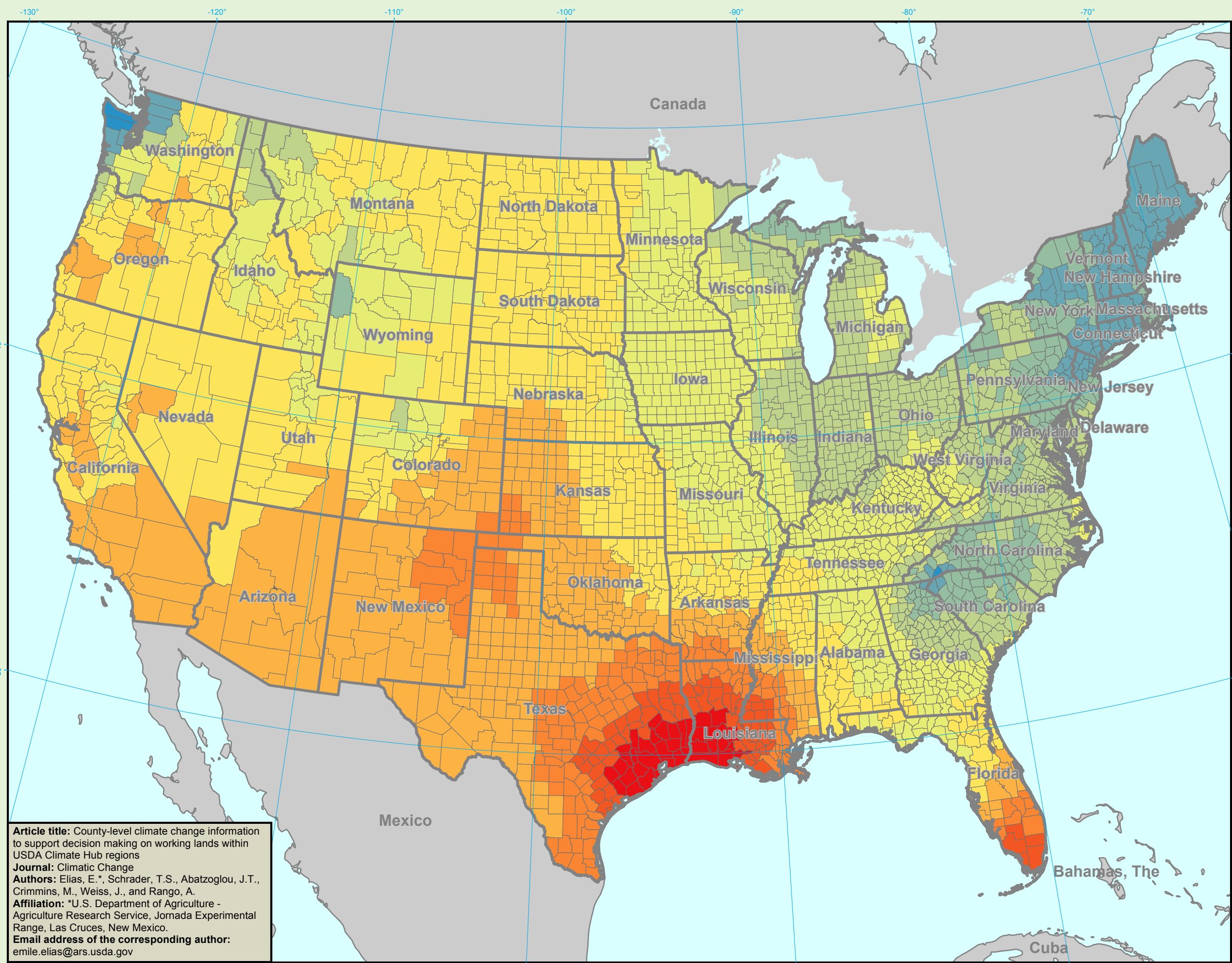




CONUS Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

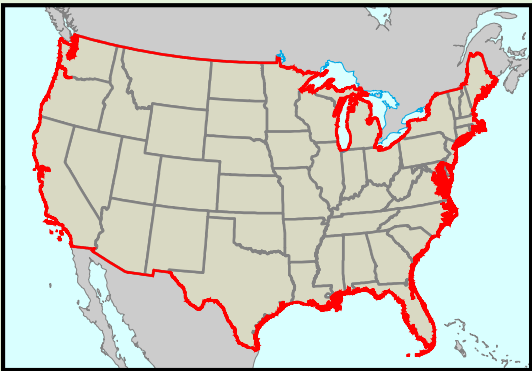
1 in = 219 miles
1 cm = 139 km

0 55 110 220 330 440 Miles
0 85 170 340 510 680 Kilometers

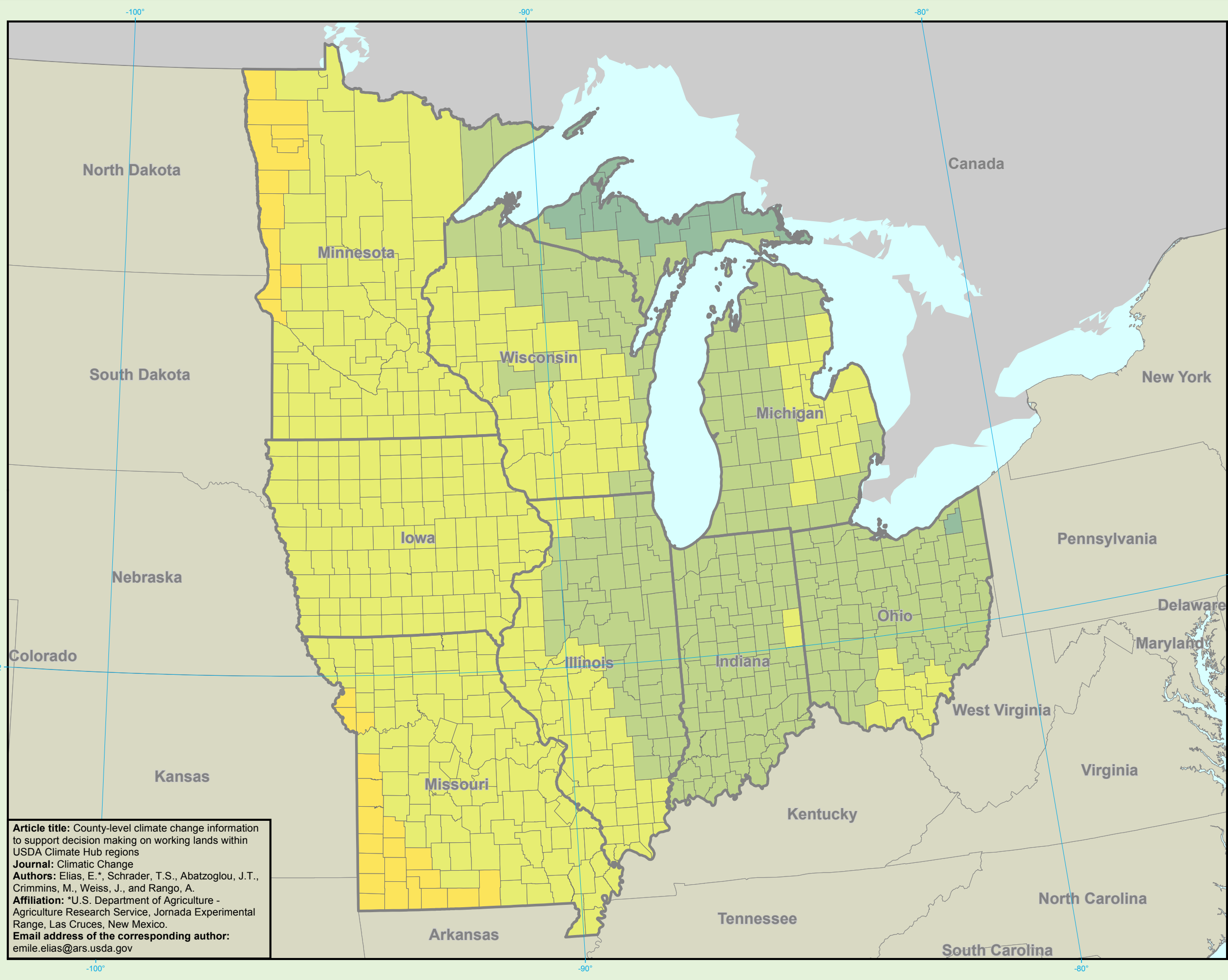
Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

- 84.200 - -58.729
- 58.728 - -33.258
- 33.257 - -7.787
- 7.786 - 17.684
- 17.685 - 43.154
- 43.155 - 68.625
- 68.626 - 94.096
- 94.097 - 119.567
- 119.568 - 145.038
- 145.039 - 170.508



Article title: County-level climate change information to support decision making on working lands within USDA Climate Hub regions
Journal: Climatic Change
Authors: Elias, E.*, Schrader, T.S., Abatzoglou, J.T., Crimmins, M., Weiss, J., and Rango, A.
Affiliation: *U.S. Department of Agriculture - Agriculture Research Service, Jornada Experimental Range, Las Cruces, New Mexico.
Email address of the corresponding author: emile.elias@ars.usda.gov



Midwest Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

1 in = 102 miles
1 cm = 65 km

0 25 50 100 150 200 Miles
0 37.5 75 150 225 300 Kilometers

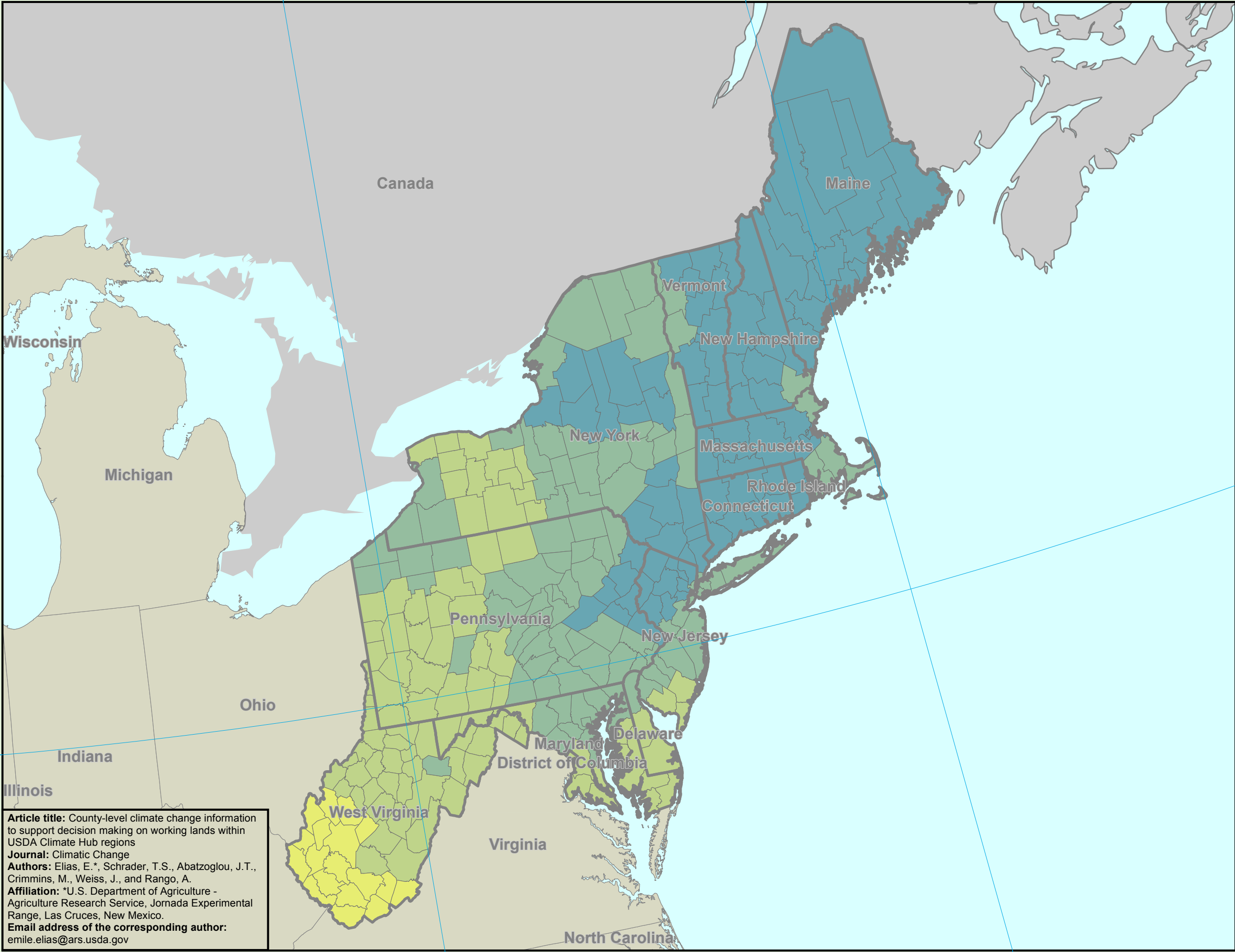
Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

- 84.200 - -58.729
- 58.728 - -33.258
- 33.257 - -7.787
- 7.786 - 17.684
- 17.685 - 43.154
- 43.155 - 68.625
- 68.626 - 94.096
- 94.097 - 119.567
- 119.568 - 145.038
- 145.039 - 170.508



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Authors: Elias, E.*, Schrader, T.S., Abatzoglou, J.T., Crimmins, M., Weiss, J., and Rango, A.
Affiliation: *U.S. Department of Agriculture - Agriculture Research Service, Jornada Experimental Range, Las Cruces, New Mexico.
Email address of the corresponding author: emile.elias@ars.usda.gov



Northeast Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

1 in = 91 miles
1 cm = 58 km

0 20 40 80 120 160 Miles
0 35 70 140 210 280 Kilometers

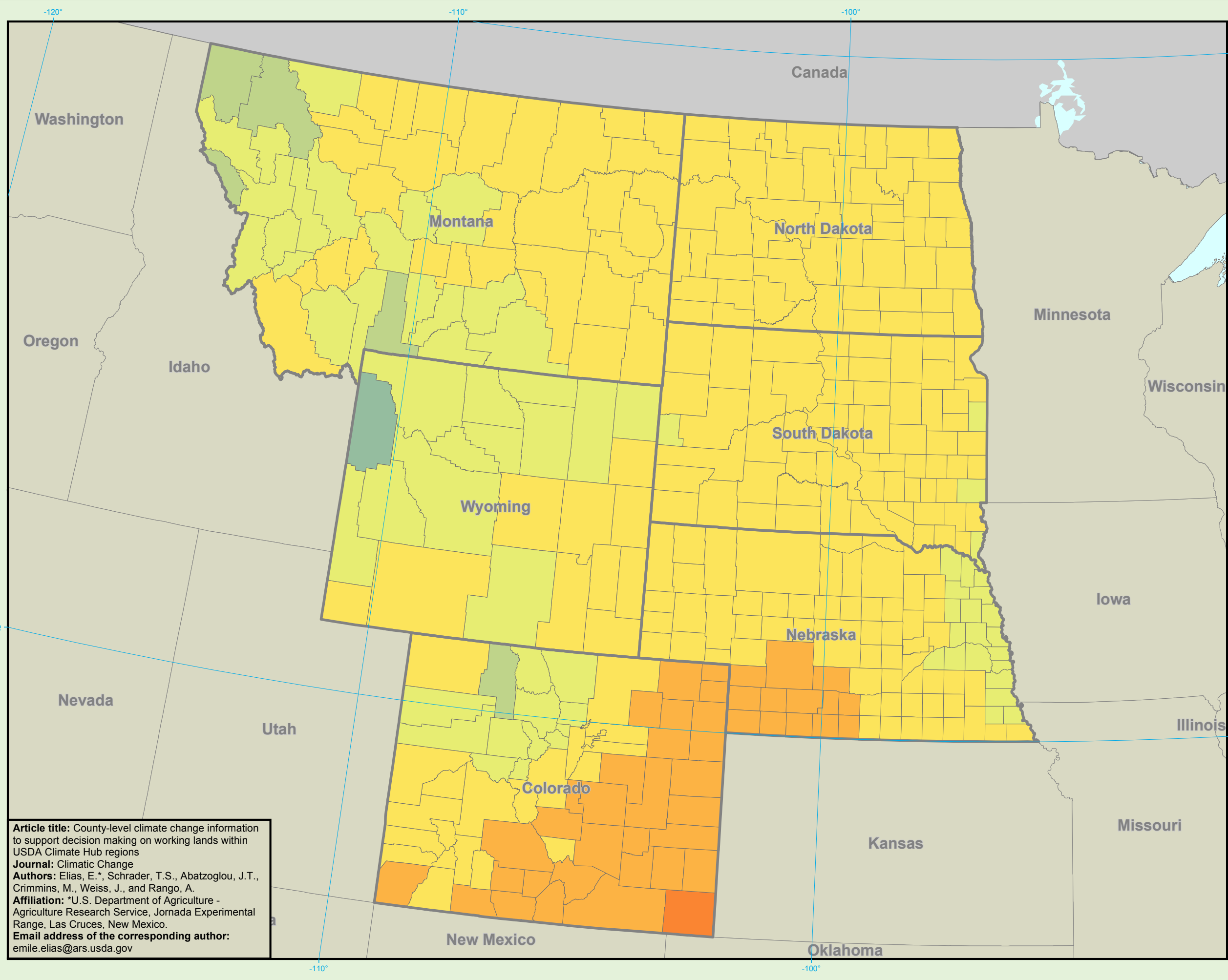
Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

- 84.200 - -58.729
- 58.728 - -33.258
- 33.257 - -7.787
- 7.786 - 17.684
- 17.685 - 43.154
- 43.155 - 68.625
- 68.626 - 94.096
- 94.097 - 119.567
- 119.568 - 145.038
- 145.039 - 170.508



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Authors: Elias, E.*, Schrader, T.S., Abatzoglou, J.T., Crimmins, M., Weiss, J., and Rango, A.
Affiliation: *U.S. Department of Agriculture - Agriculture Research Service, Jornada Experimental Range, Las Cruces, New Mexico.
Email address of the corresponding author: emile.elias@ars.usda.gov



Northern Plains Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

1 in = 101 miles
1 cm = 64 km

0 25 50 100 150 200 Miles

0 37.5 75 150 225 300 Kilometers

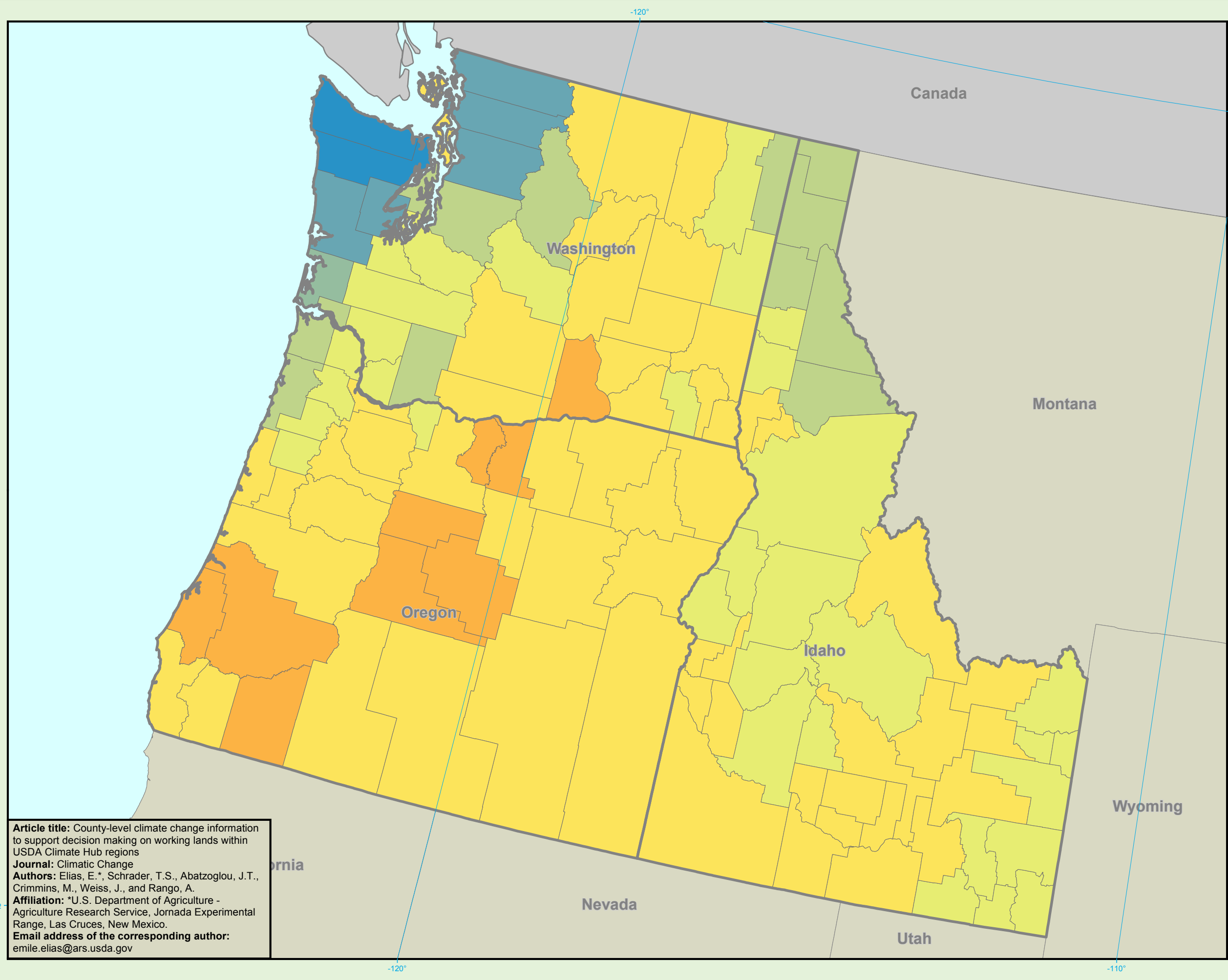
Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

- 84.200 - -58.729
- 58.728 - -33.258
- 33.257 - -7.787
- 7.786 - 17.684
- 17.685 - 43.154
- 43.155 - 68.625
- 68.626 - 94.096
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Email address of the corresponding author: emile.elias@ars.usda.gov





Northwest Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

1 in = 65 miles
1 cm = 41 km

0 15 30 60 90 120 Miles
0 25 50 100 150 200 Kilometers

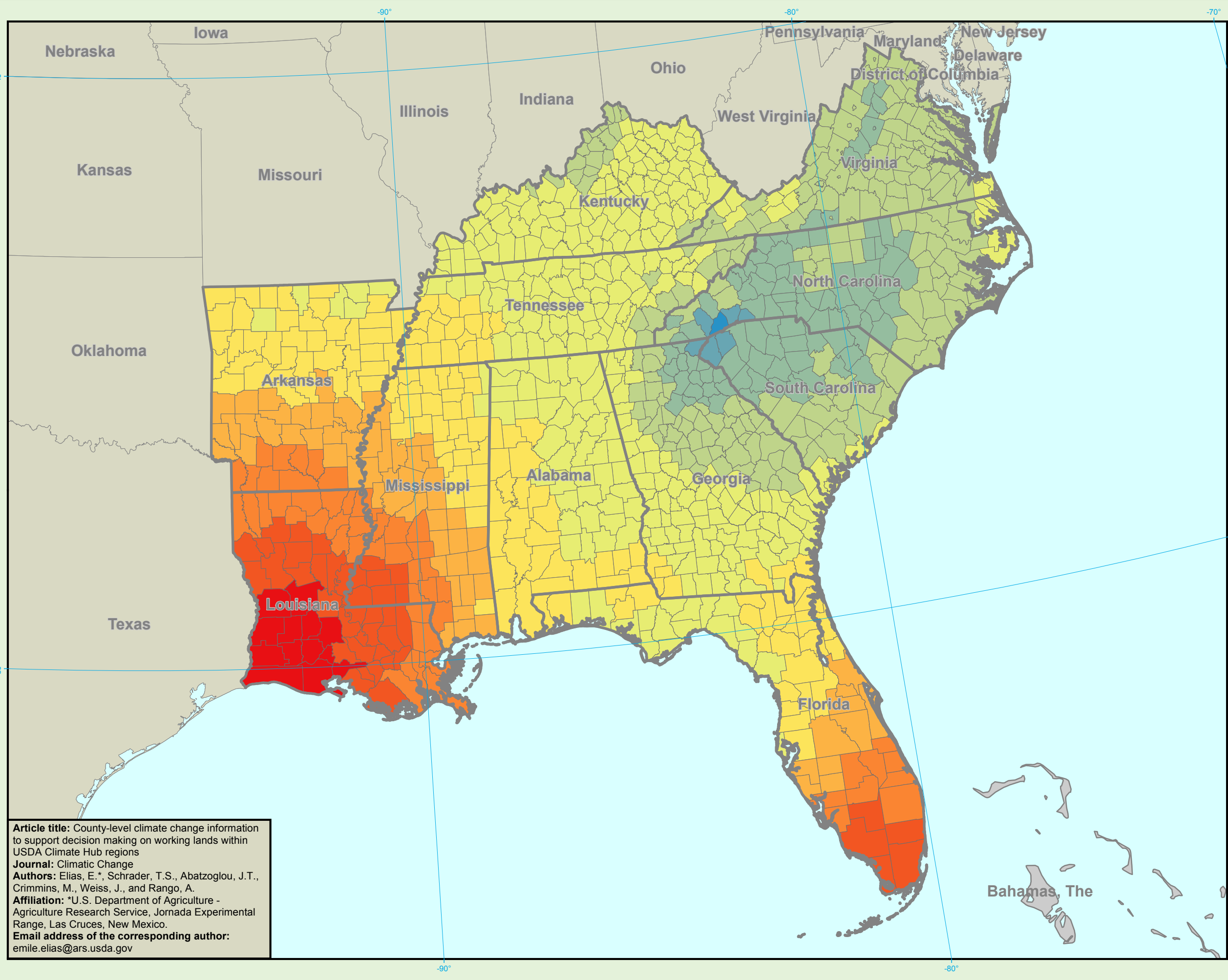
Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

- 84.200 - -58.729
- 58.728 - -33.258
- 33.257 - -7.787
- 7.786 - 17.684
- 17.685 - 43.154
- 43.155 - 68.625
- 68.626 - 94.096
- 94.097 - 119.567
- 119.568 - 145.038
- 145.039 - 170.508



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Affiliation: *U.S. Department of Agriculture - Agriculture Research Service, Jornada Experimental Range, Las Cruces, New Mexico.
Email address of the corresponding author: emile.elias@ars.usda.gov



Southeast Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

1 in = 115 miles
1 cm = 73 km

0 30 60 120 180 240 Miles
0 40 80 160 240 320 Kilometers

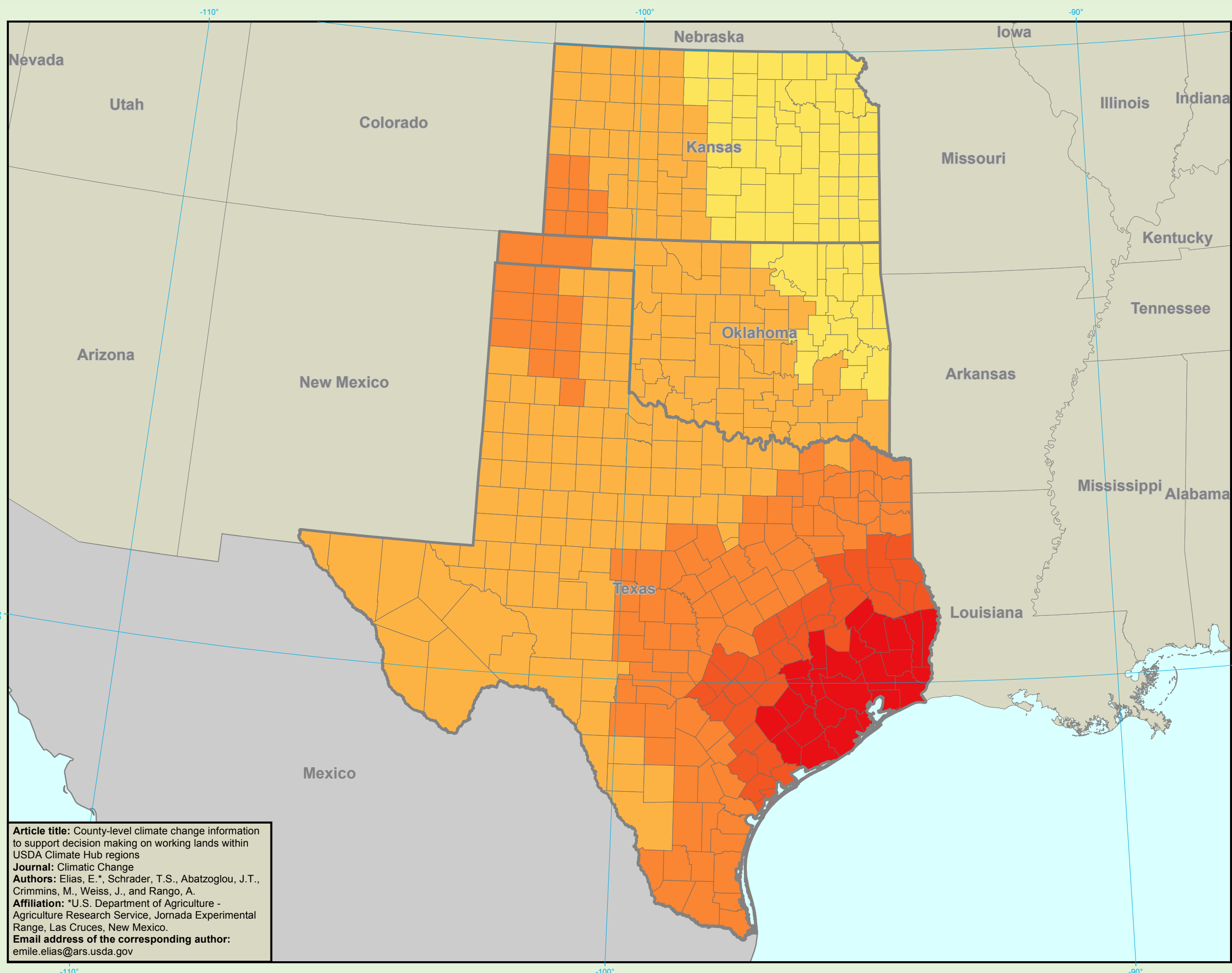
Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

Red	-84.200 - -58.729
Dark Orange	-58.728 - -33.258
Orange	-33.257 - -7.787
Light Orange	-7.786 - 17.684
Yellow	17.685 - 43.154
Light Yellow	43.155 - 68.625
Light Green	68.626 - 94.096
Green	94.097 - 119.567
Dark Green	119.568 - 145.038
Blue	145.039 - 170.508



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Journal: Climatic Change
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Affiliation: *U.S. Department of Agriculture - Agriculture Research Service, Jornada Experimental Range, Las Cruces, New Mexico.
Email address of the corresponding author: emile.elias@ars.usda.gov



Southern Plains Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

1 in = 108 miles
1 cm = 69 km

0 25 50 100 150 200 Miles
0 40 80 160 240 320 Kilometers

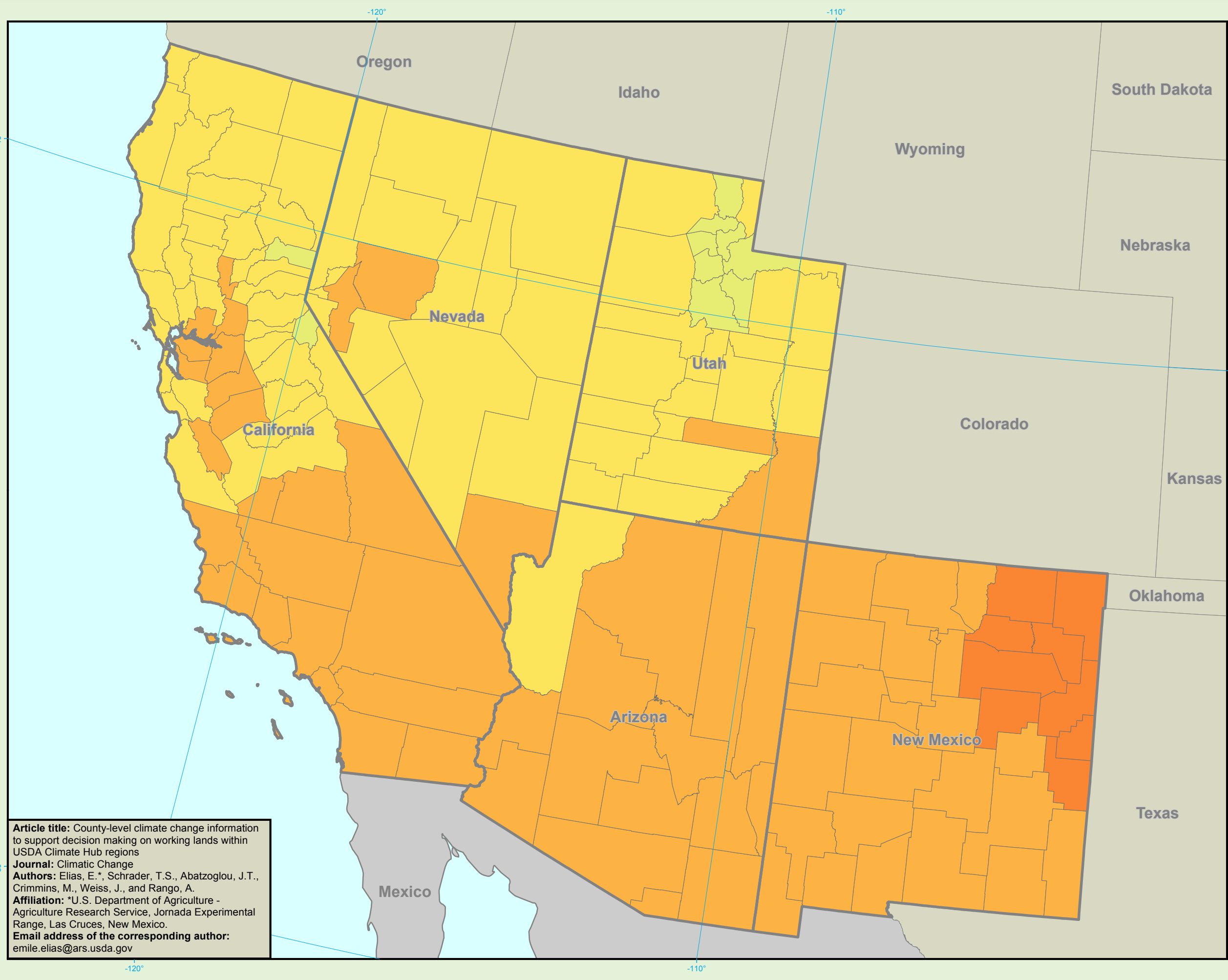
Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

- 84.200 - -58.729**
- 58.728 - -33.258**
- 33.257 - -7.787**
- 7.786 - 17.684**
- 17.685 - 43.154**
- 43.155 - 68.625**
- 68.626 - 94.096**
- 94.097 - 119.567**
- 119.568 - 145.038**
- 145.039 - 170.508**



Article title: County-level climate change information to support decision making on working lands within USDA Climate Hub regions
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Authors: Elias, E.*, Schrader, T.S., Abatzoglou, J.T., Crimmins, M., Weiss, J., and Rango, A.
Affiliation: *U.S. Department of Agriculture - Agriculture Research Service, Jornada Experimental Range, Las Cruces, New Mexico.
Email address of the corresponding author: emile.elias@ars.usda.gov



Southwest Climate Hub Region Annual Precipitation

Coordinate System: Albers
Central Meridian: 96°0'0"W
1st Std Parallel: 20°0'0"N
2nd Std Parallel: 60°0'0"N
Latitude of Origin: 40°0'0"N

1 in = 98 miles
1 cm = 62 km

0

25

50

100

150

200

Miles

0

37.5

75

150

225

300

Kilometers

N

E

S

W

Change values are derived from 20 global climate models means comparing historic (1971-2000) to future (2040-2069) scenarios and aggregated to county level.

Precipitation Delta (mm)

- -84.200 - -58.729
- -58.728 - -33.258
- -33.257 - -7.787
- -7.786 - 17.684
- 17.685 - 43.154
- 43.155 - 68.625
- 68.626 - 94.096
- 94.097 - 119.567
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- 145.039 - 170.508



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