Nolan Doesken
Colorado Climate Center

Presented to
Water Availability Task Force
August 12, 2015
Denver, CO
June 2015 Average Temperature History for Colorado (NCDC)

66.5°F (-0.6) Ranks 39th Coolest 1895-2015. Coolest since 2004.
Departure from Normal Temperature (F)
7/1/2015 - 7/31/2015

Generated 8/5/2015 at HPRCC using provisional data.
Departure from Normal Temperature (°F)
8/1/2015 – 8/10/2015

Generated 8/11/2015 at HPRCC using provisional data.
Denver-Stapleton Daily Max/Min Temperature with Normal (Oct 1, 2014 - Present)
Grand Junction Daily Max/Min Temperature with Normals (Oct 1, 2014 - Present)
Colorado July 2015 Precipitation as a Percentage of Normal

Precip as % of Normal
- 0
- 1 - 10
- 11 - 20
- 21 - 30
- 31 - 50
- 51 - 70
- 71 - 90
- 91 - 110
- 111 - 130
- 131 - 150
- 151 - 170
- 171 - 200
- 201 - 250
- 251 - 300
- 300+
July 2015 Statewide Precipitation

2.38" (+0.28")
39th wettest on Record 1895-2014
Last time this was 2013
Colorado Water Year Precipitation
as a Percentage of Normal
October 2014 - July 2015
Precipitation (in)
8/1/2015 - 8/10/2015

Generated 8/11/2015 at HPRCC using provisional data.
Precipitation (in)
8/1/2015 - 8/10/2015
Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO
NWS Cooperative Stations for WATF
Division 3 – Mesa Verde NP

Mesa Verde NP
2015 Water Year

- 30 Year Averages: 1981-2010
- Period of Record Average: 1893-2009
- 2015 Water Year Accumulated
- Max Precip
- Min Precip

Accumulated Precipitation (Inches)

Months:
- OCT
- NOV
- DEC
- JAN
- FEB
- MAR
- APR
- MAY
- JUN
- JUL
- AUG
- SEP
Division 3 – Mesa Verde NP

Mesa Verde NP
Precipitation Accumulation

-7.91"
Division 4 – Alamosa

Alamosa WSO
Precipitation Accumulation

+2.22”
Division 5 – Pueblo

Pueblo WSO
2015 Water Year
Division 6 - Walsh

Walsh 1W
Precipitation Accumulation

-3.18”
Burlington, CO
Precipitation Accumulation

+8.62”
Division 7 – Akron

Akron 4E

2015 Water Year
Division 7 – Akron

Akron 4E
Precipitation Accumulation

-1.82”
Division 8 - Boulder

Boulder Precipitation Accumulation

+20.35”
CoAgMet Reference Evapotranspiration Stations

Average
2012
2009
2015

Date
4/1
5/1
6/1
7/1
8/1
9/1

Kimberly-Penman Reference ET (in)
U.S. Drought Monitor

Colorado

August 4, 2015
(Released Thursday, Aug. 6, 2015)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

<table>
<thead>
<tr>
<th>Current</th>
<th>None</th>
<th>D0-D4</th>
<th>D1-D4</th>
<th>D2-D4</th>
<th>D3-D4</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>97.95</td>
<td>2.05</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Last Week</th>
<th>None</th>
<th>D0-D4</th>
<th>D1-D4</th>
<th>D2-D4</th>
<th>D3-D4</th>
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</tbody>
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<table>
<thead>
<tr>
<th>3 Months Ago</th>
<th>None</th>
<th>D0-D4</th>
<th>D1-D4</th>
<th>D2-D4</th>
<th>D3-D4</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>56.2%</td>
<td>42.1%</td>
<td>57.8%</td>
<td>50.5%</td>
<td>31.7%</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start of Calendar Year</th>
<th>None</th>
<th>D0-D4</th>
<th>D1-D4</th>
<th>D2-D4</th>
<th>D3-D4</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>92%</td>
<td>68.9%</td>
<td>30.1%</td>
<td>21.3%</td>
<td>12.3%</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Start of Water Year</th>
<th>None</th>
<th>D0-D4</th>
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<th>D2-D4</th>
<th>D3-D4</th>
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<td>2.3%</td>
<td>0.00</td>
</tr>
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<th>One Year Ago</th>
<th>None</th>
<th>D0-D4</th>
<th>D1-D4</th>
<th>D2-D4</th>
<th>D3-D4</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>59.9%</td>
<td>40.1%</td>
<td>26.9%</td>
<td>15.5%</td>
<td>2.6%</td>
<td>0.5%</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Intensity:
- Yellow: D0 Abnormally Dry
- Red: D3 Extreme Drought
- Orange: D1 Moderate Drought
- Brown: D4 Exceptional Drought
- Brown: D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
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National Drought Mitigation Center

http://droughtmonitor.unl.edu/
Colorado Climate Center

Data and Power Point Presentations available for downloading

http://ccc.atmos.colostate.edu/presentations.php