



Meeting Date: January 28, 2015

Staff Contact: Katherine Yuhas, Water Conservation Officer

TITLE: Water Use Update

ACTION: None

SUMMARY:

Drought conditions have lessened in the Middle Rio Grande Valley and we are currently only in moderate drought. Drought conditions are expected to improve over the next few months due to higher than average precipitation, so that by the end of April our service area is anticipated to be no longer in drought.

Gallons per capita per day usage (GPCD) for 2014 was 134, a reduction of two gallons per capita per day from 2013. The savings came from a one gallon reduction from our residential customers and a one gallon reduction from our industrial, commercial and institutional customers.

55% of our water sold went to single family residential customers, 18% to multi-family customers, 17% to commercial customers, 5% to parks, golf and athletic fields, 4% to institutional customers and 1% to industrial customers.

Outdoor water use has been reduced from 113 GPCD in the pre-conservation years (1987 – 1993) to 51 GPCD in 2014, a reduction of 55%.

Peak day usage has been reduced from 209.48 million gallons on 6/29/94 to 143.48 on 7/26/14, a reduction of 32%.

FISCAL IMPACT:

None

WATER USE UPDATE

Water Authority Board

January 28, 2015



Albuquerque Bernalillo County
Water Utility Authority



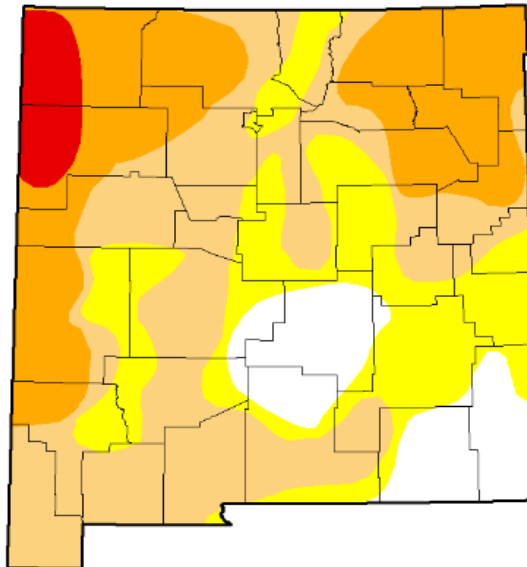
Drought Summary

[Current Calendar Year Review](#) | [Current Water Year Review](#) | [Temperature and Precipitation Outlooks](#)

[Other Hydrologic Information](#) | [Special Hydrologic/Climate Features](#) | [Related Web Sites](#)

U.S. Drought Monitor New Mexico

January 13, 2015
(Released Thursday, Jan. 15, 2015)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|-------|-------|-------|-------|-------|------|
| Current | 12.01 | 87.99 | 84.59 | 29.10 | 3.70 | 0.00 |
| Last Week 6/9/2015 | 12.01 | 87.99 | 84.59 | 29.10 | 3.70 | 0.00 |
| 3 Months Ago 10/14/2014 | 16.70 | 83.30 | 82.64 | 30.04 | 0.00 | 0.00 |
| Start of Calendar Year 1/1/2015 | 12.01 | 87.99 | 85.36 | 29.10 | 3.70 | 0.00 |
| Start of Water Year 9/30/2014 | 16.70 | 83.30 | 82.57 | 30.04 | 0.00 | 0.00 |
| One Year Ago 1/14/2014 | 0.39 | 99.61 | 79.94 | 33.13 | 3.97 | 0.00 |

Intensity:

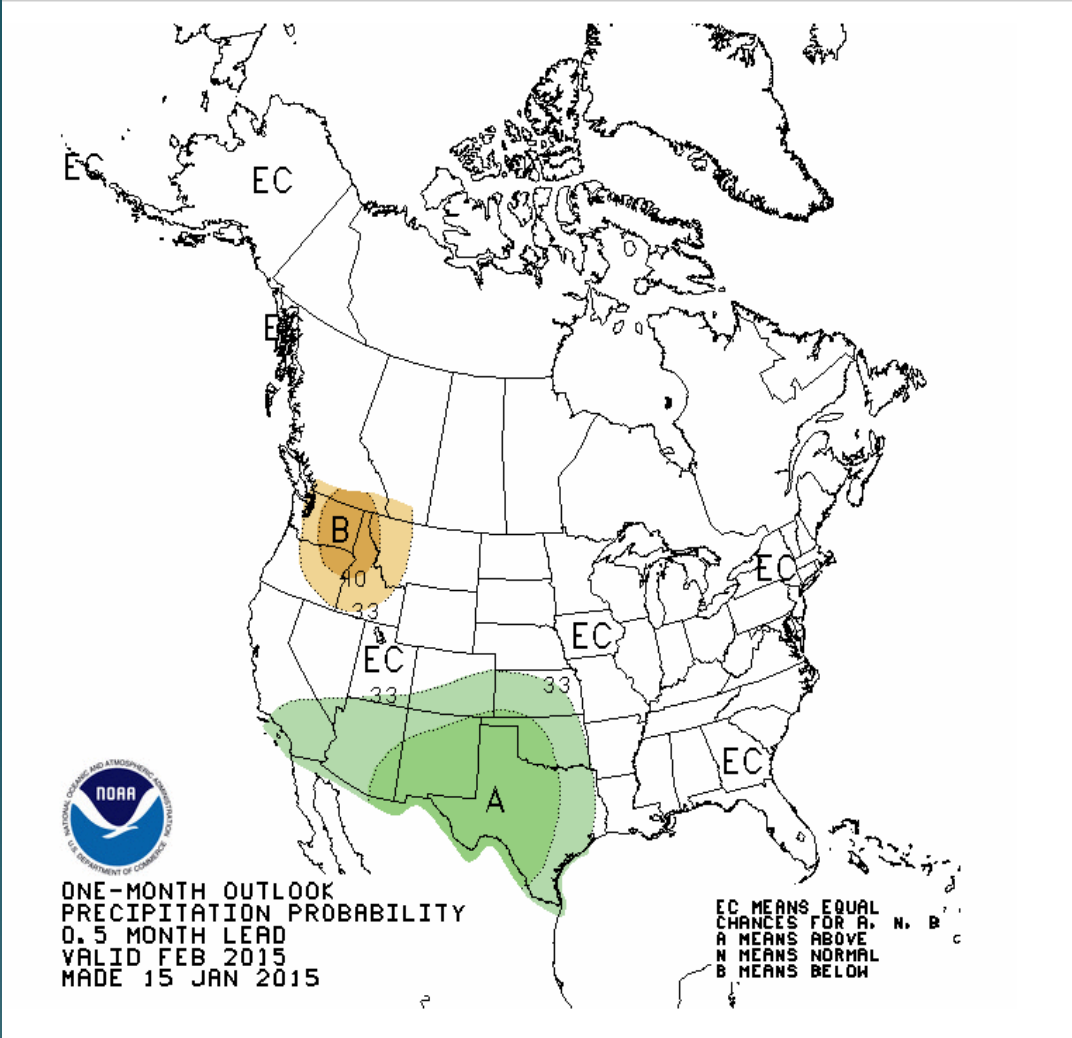
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

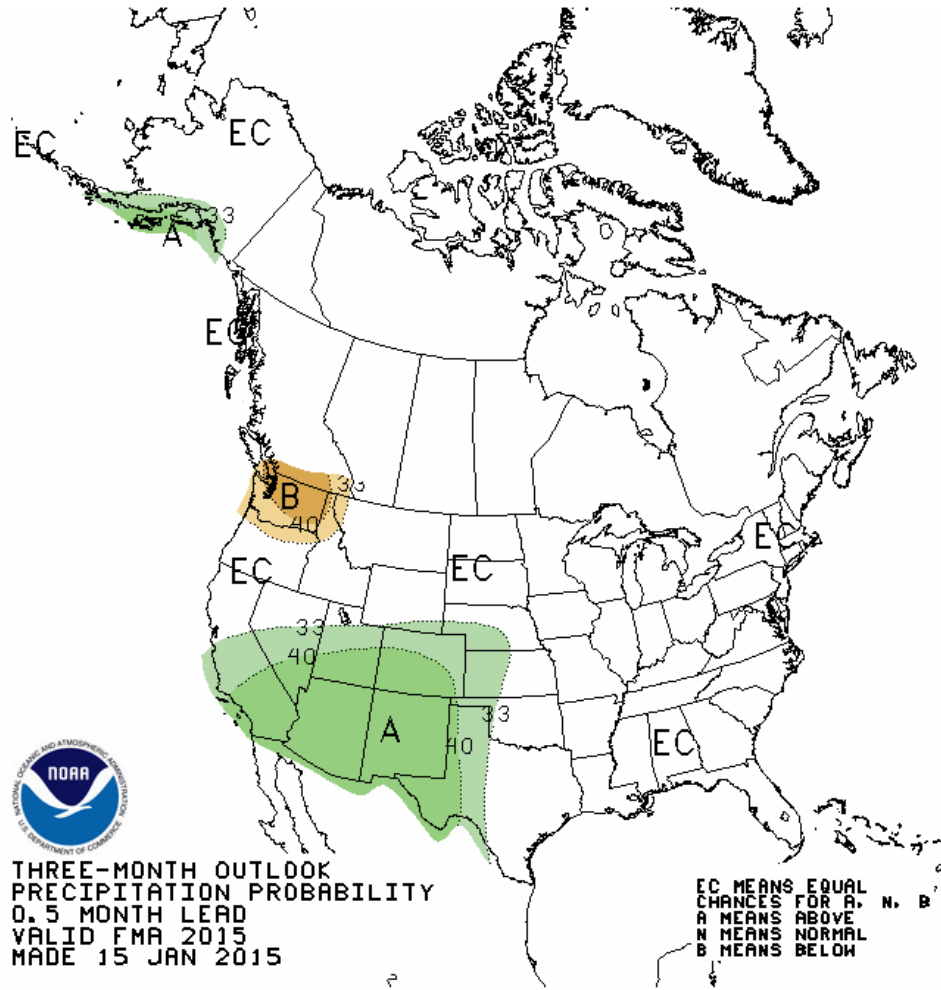
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Richard Tinker
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>





NOAA
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 U.S. DEPARTMENT OF COMMERCE

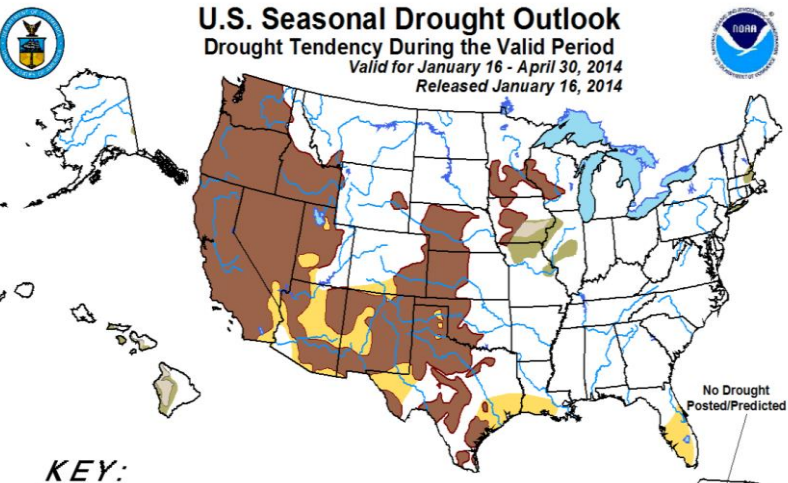
THREE-MONTH OUTLOOK
 PRECIPITATION PROBABILITY
 0.5 MONTH LEAD
 VALID FMA 2015
 MADE 15 JAN 2015

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for January 16 - April 30, 2014

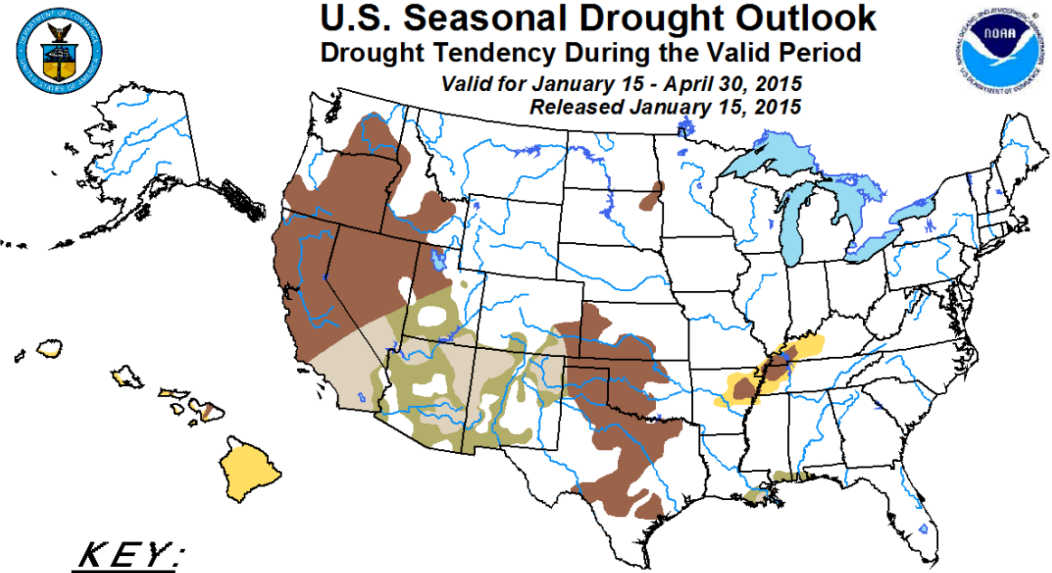
Released January 16, 2014



KEY:

- Drought persists or intensifies
- Drought remains but improves
- Drought removal likely
- Drought development likely

Author: Brad Pugh, Climate Prediction Center, NOAA
http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.html
 Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity).
 For weekly drought updates, see the latest U.S. Drought Monitor.
 NOTE: The tan area areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain.
 The Green areas imply drought removal by the end of the period (D0 or none)



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Author: David Miskus, Climate Prediction Center, NOAA
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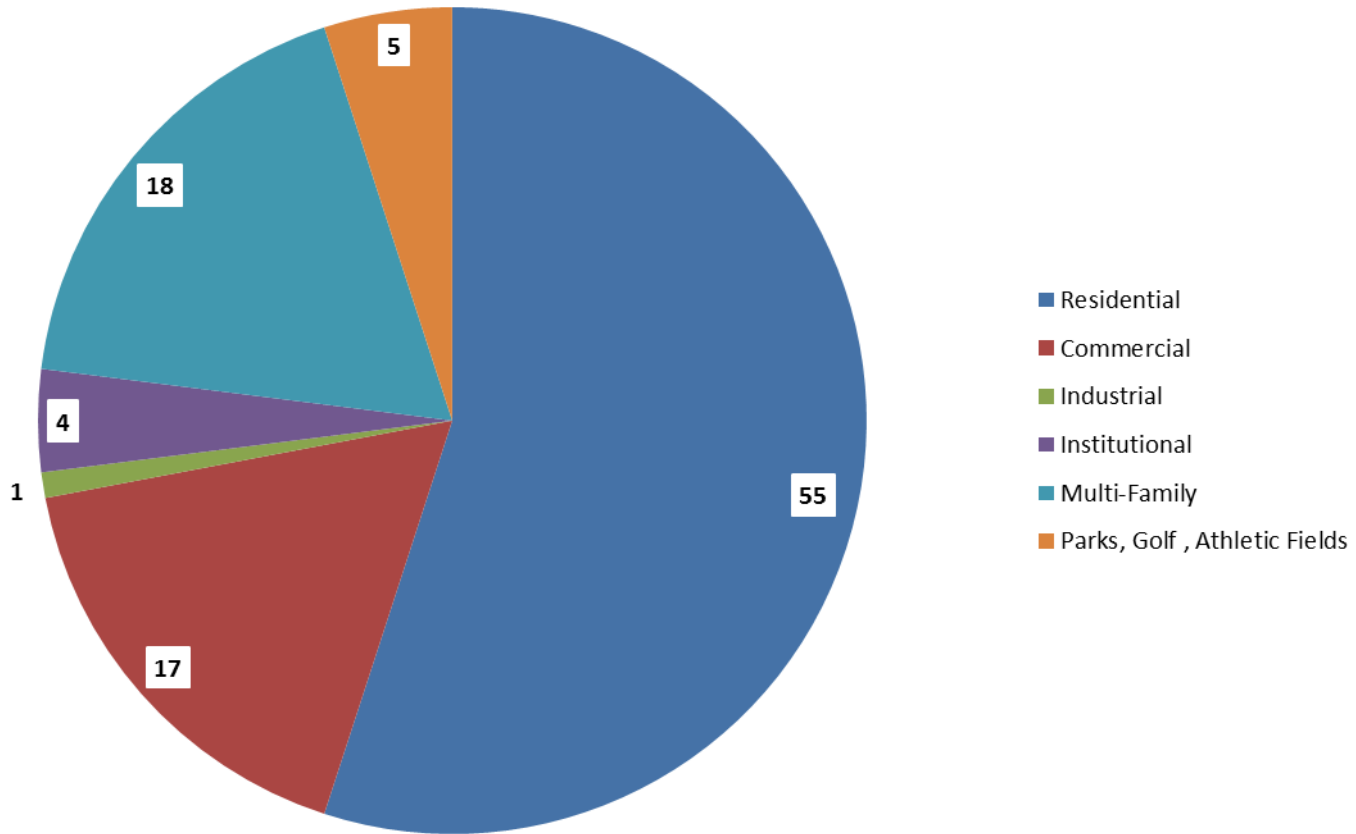
Albuquerque Bernalillo County
 Water Utility Authority

2014 GPCD

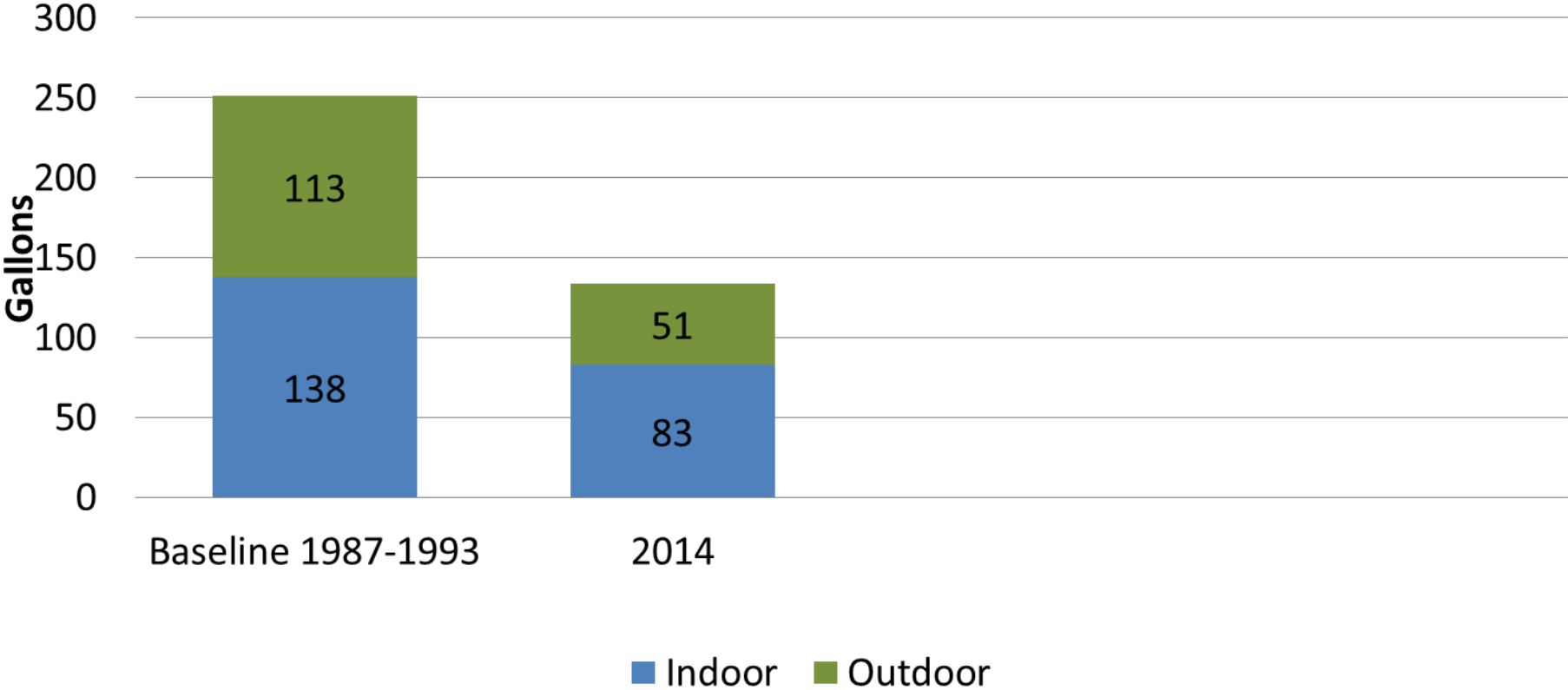
- Water Use from January – December 2014 =
32,144,929,200 (water produced) –
49,660,000 (water stored in the aquifer)=
32,095,269,200 gallons /
- Population for 2014 = 656,305 /
- 365 days per year =
- **133.98 gallons per day**



ABCWUA 2014 Percentage of Use by Customer Class



ABCWUA Indoor and Outdoor Water Use Baseline Years vs. 2014

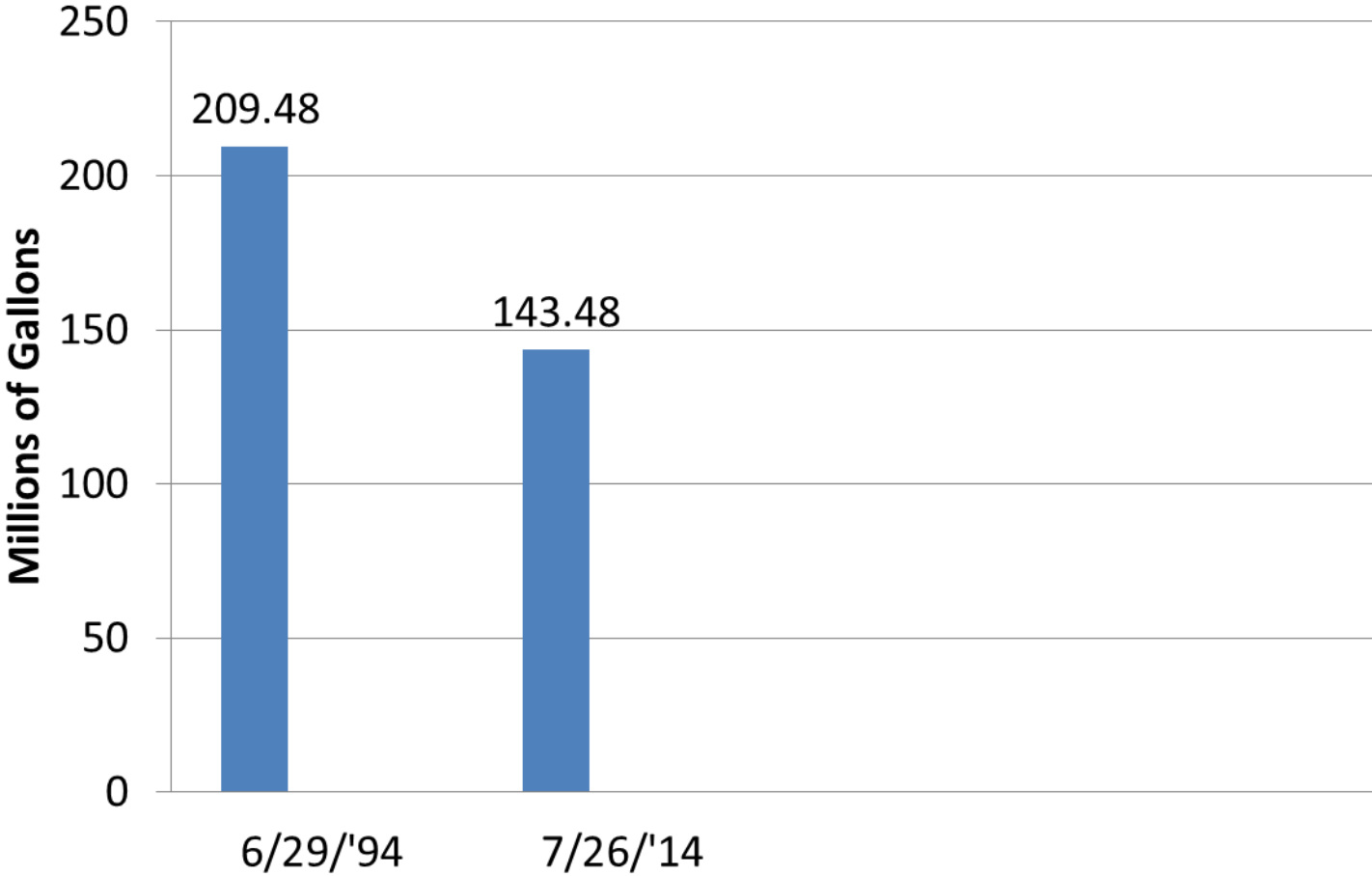


Outdoor water use has been reduced from 45% of total use to 38%



Albuquerque Bernalillo County
Water Utility Authority

Peak Day Usage 1994 vs 2014



Peak Day Usage Reduced by 32%