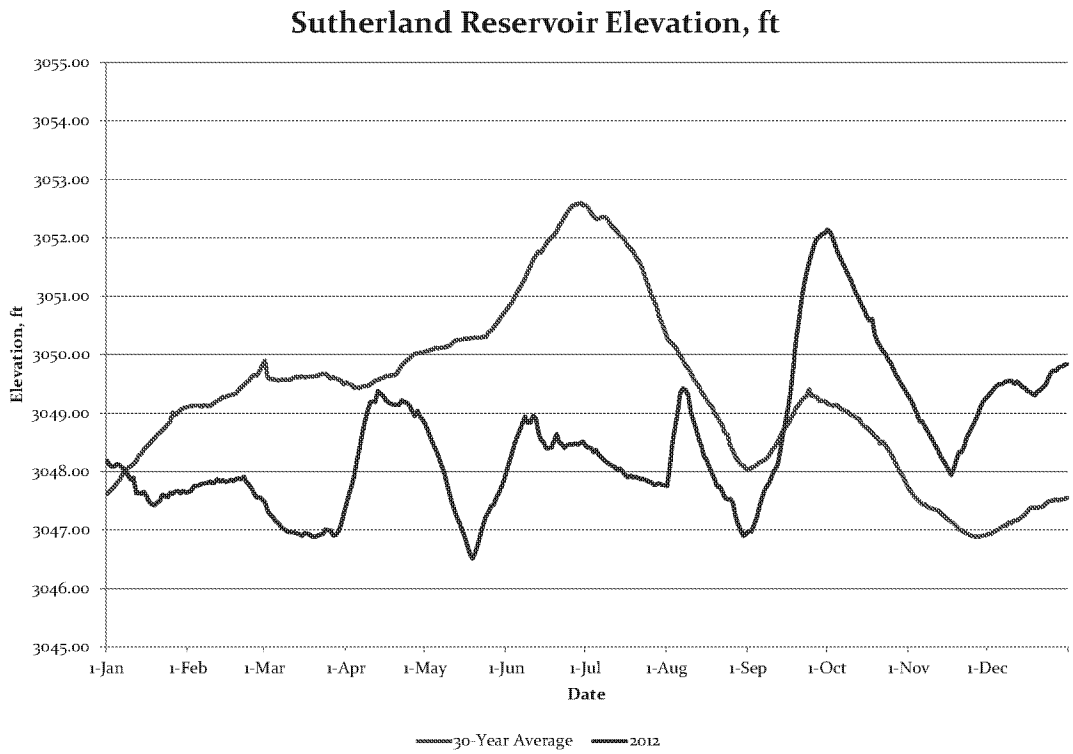
GGS Landowner Committee Meeting

March 4, 2013

Agenda

- Review of Last Meeting Notes
- 2012 Water Operations
- 2012 GGS Well Operations
- Monitoring Well Summary
- 2012 Modeling Summary
- TPNRD Well Monitoring
- 2013 Conditions and Operations
- Mitigation Agreement Discussion
- Questions, Comments, Recommendations

2012 Water Operations



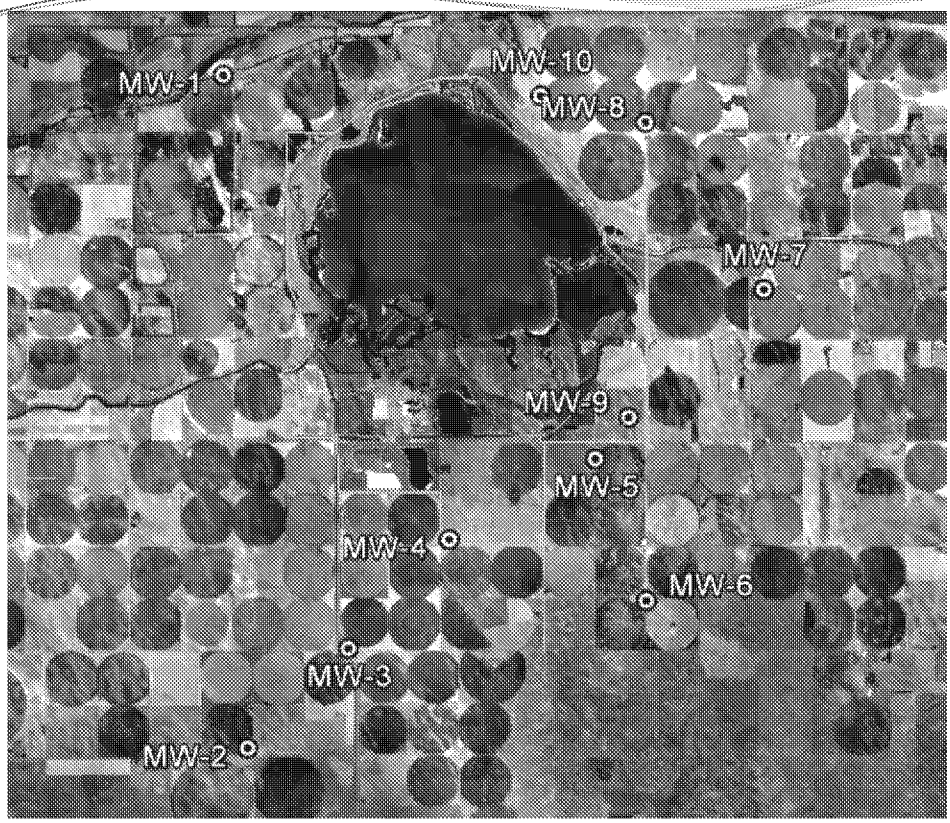
2012 GGS Well Operations

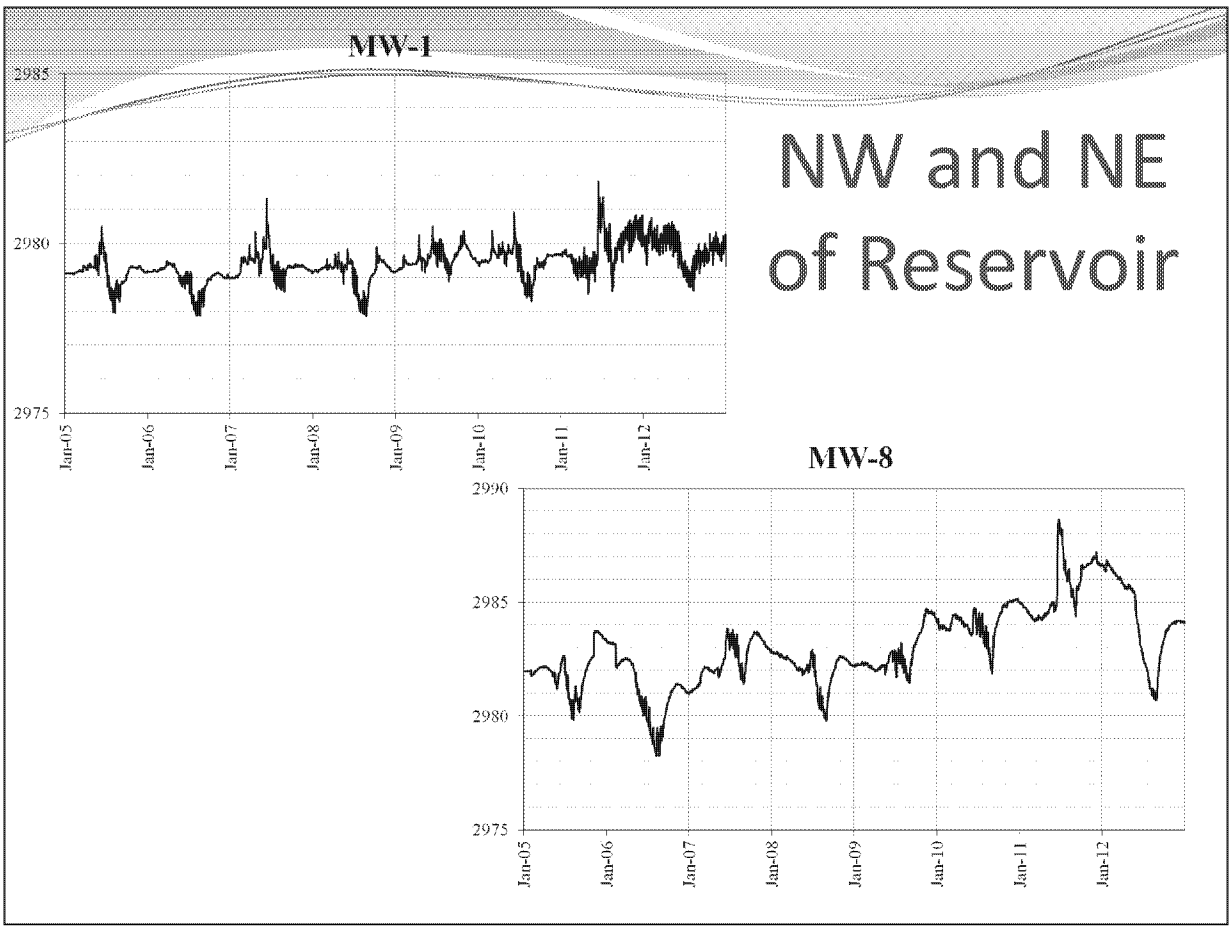
Year	Total AF	Operated
2012	47	7/19, test
2011	13	test & flush
2010	1,127	6/22 – 7/1
2009	3,241	6/21 – 8/30
2008	426	6/22 – 8/10
2007	8,194	6/21 – 9/8
2006	3,444	6/25 – 8/24
2005	4,451	7/12 – 9/10

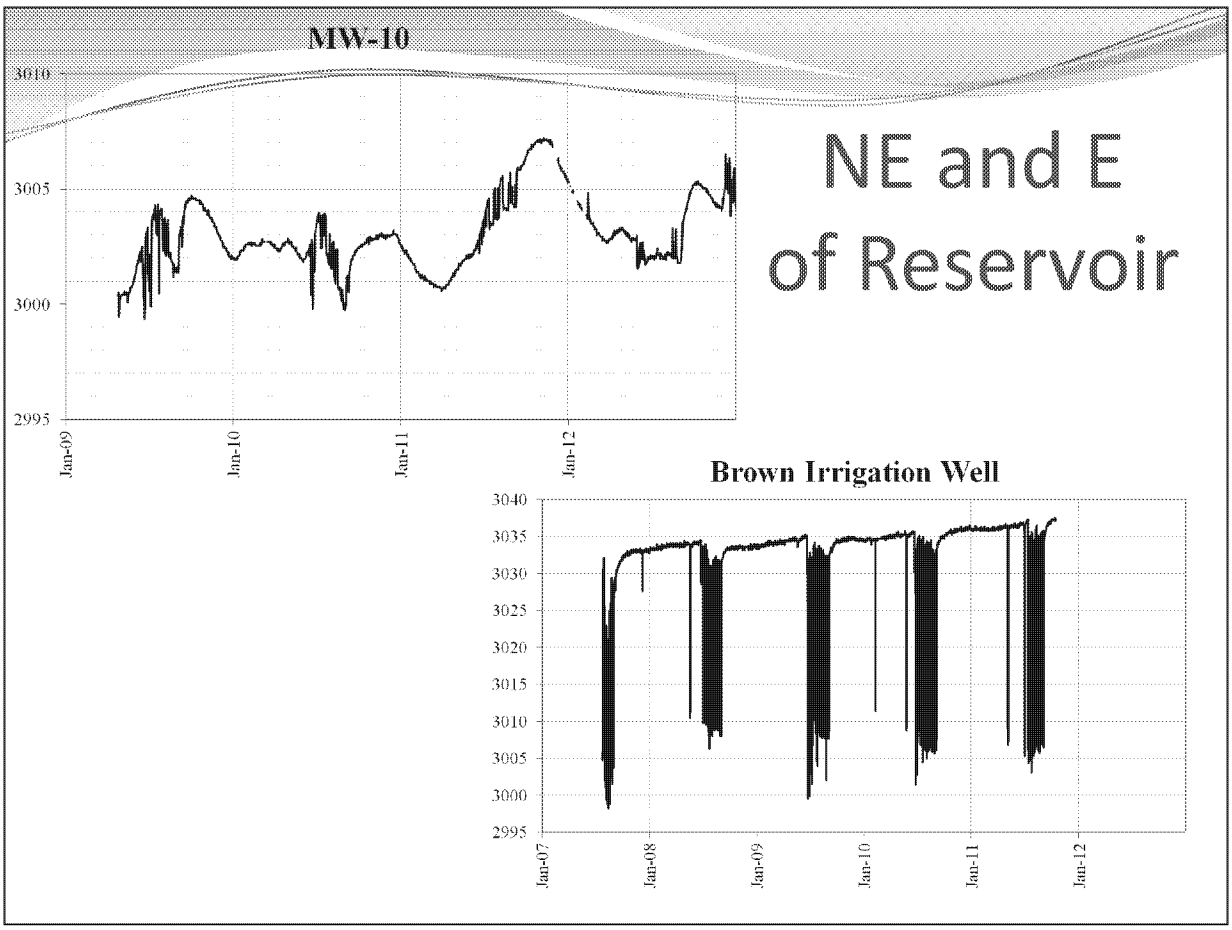
Operation is periodic in the time period, not continuous.

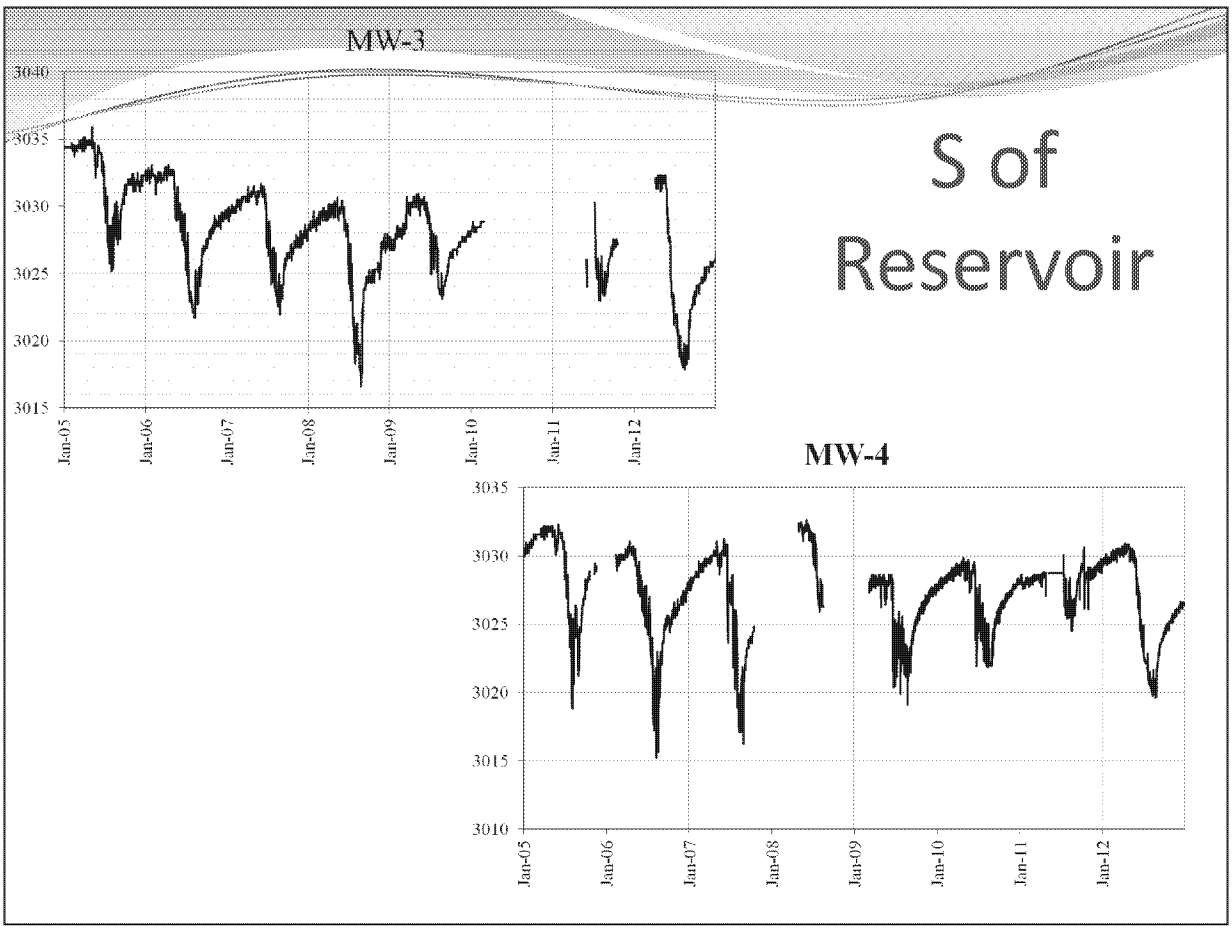
Monitoring Well Summary

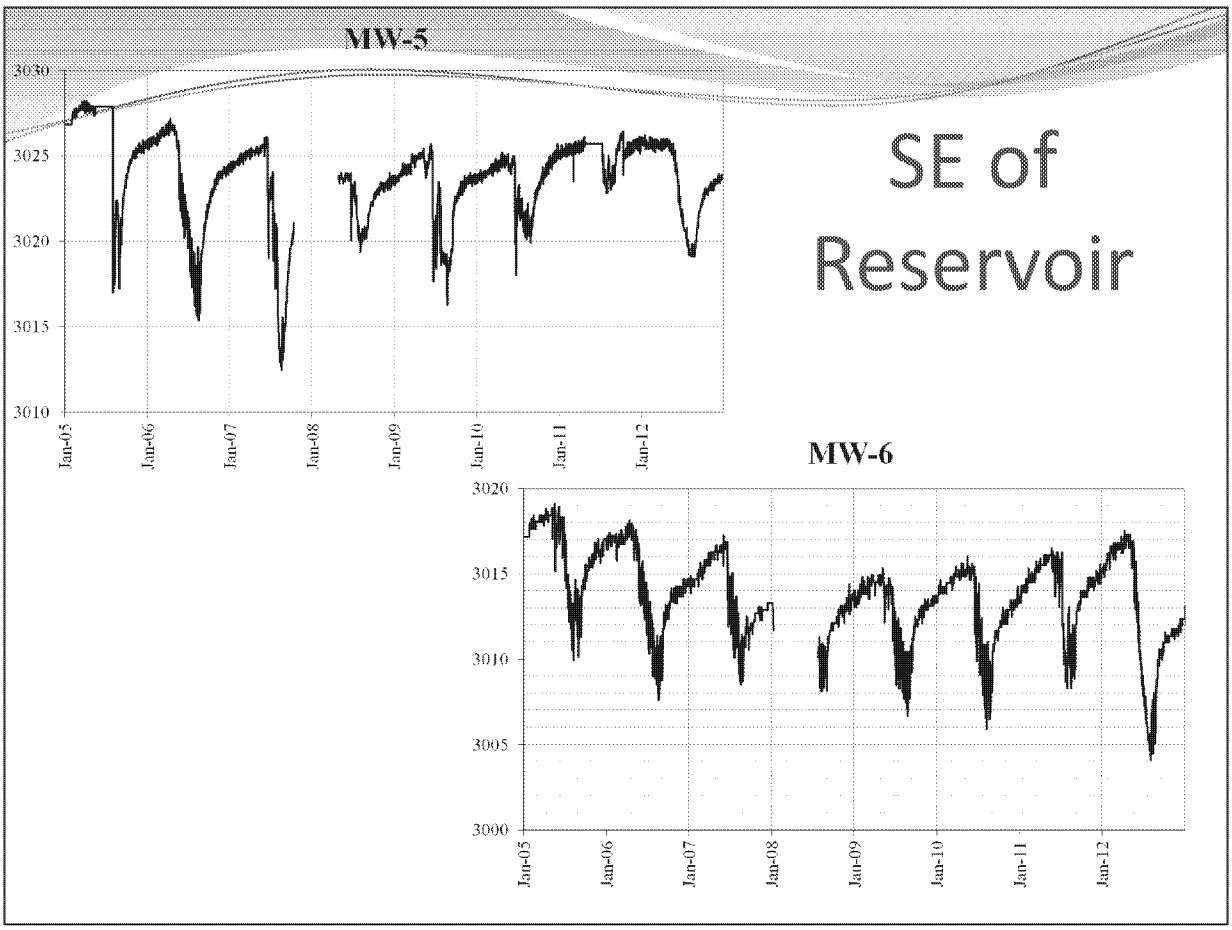
NPPD Monitoring Wells

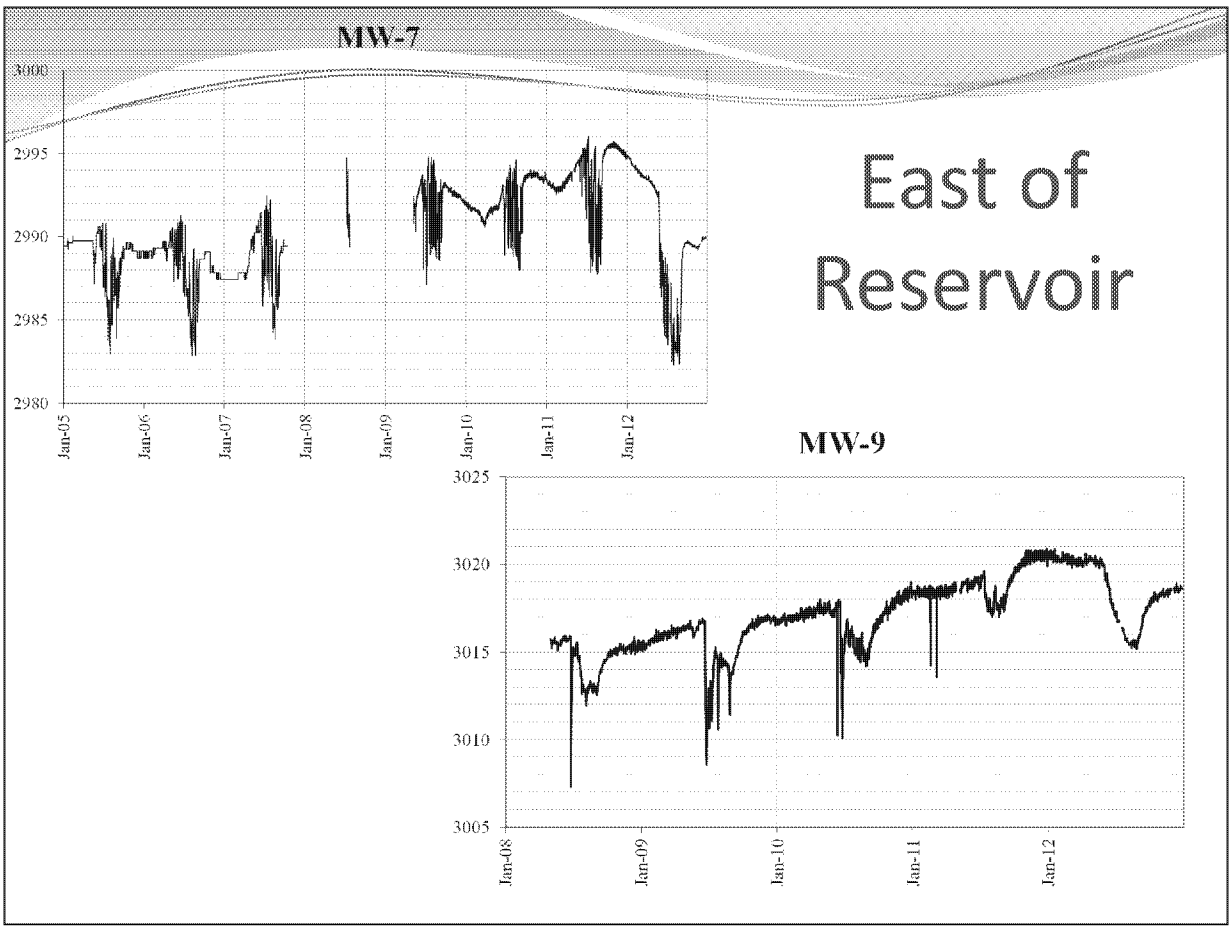



MW-1
2985
2980
2975
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
NW and NE of Reservoir
MW-8
2990
2985
2980
2975
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12


MW-10
3010
3005
3000
2995
Jan-09
Jan-10
Jan-11
Jan-12
NE and E of Reservoir
Brown Irrigation Well
3040
3035
3030
3025
3020
3015
3010
3005
3000
2995
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12

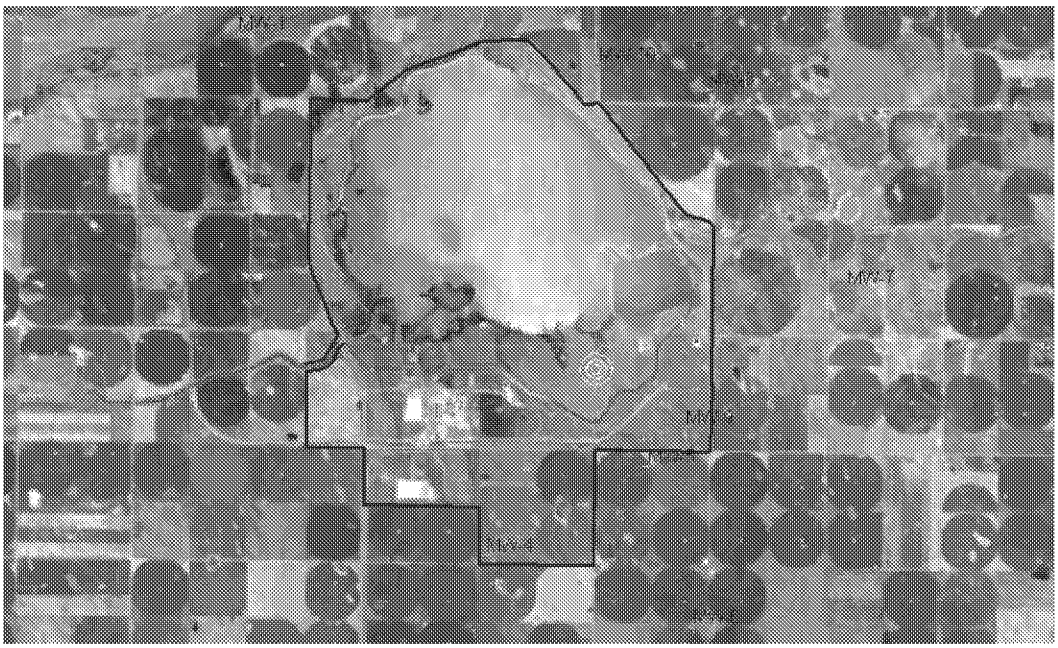

MW-3
3040
3035
3030
3025
3020
3015
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
S of Reservoir
MW-4
3035
3030
3025
3020
3015
3010
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12

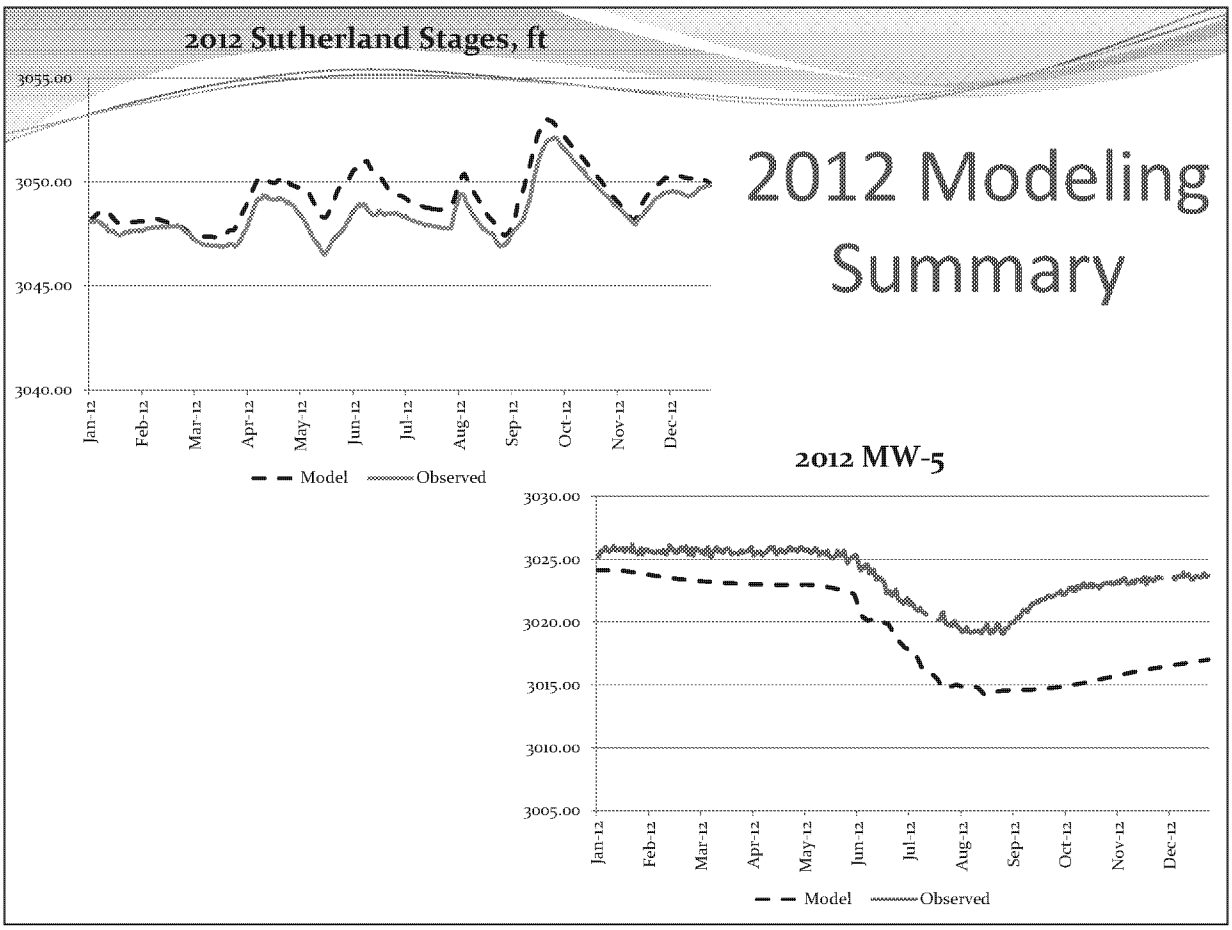

MW-5
3030
3025
3020
3015
3010
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
SE of Reservoir
MW-6
3020
3015
3010
3005
3000
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12

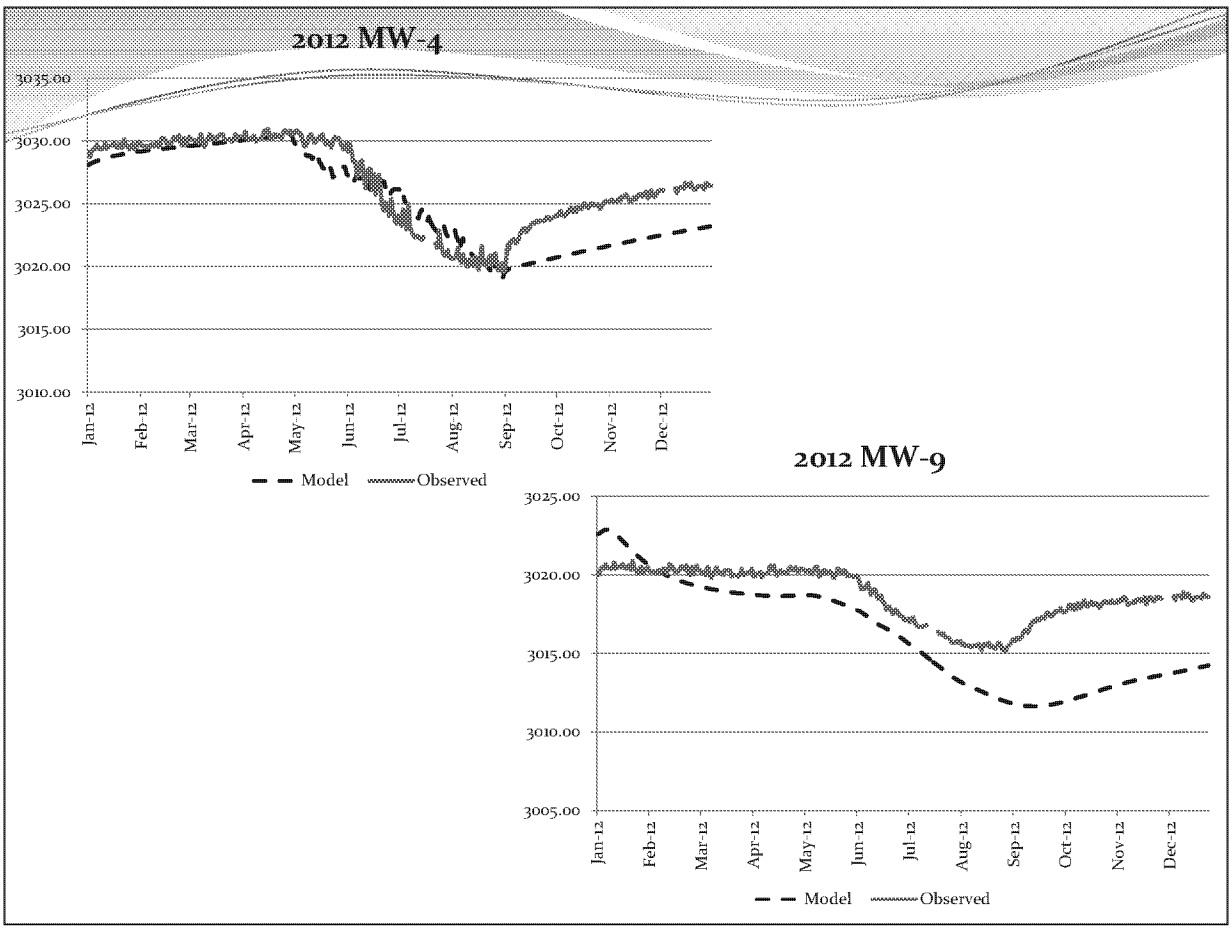

MW-7
3000
2995
2990
2985
2980
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
East of Reservoir
MW-9
3025
3020
3015
3010
3005
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12

2012 GGS Well drawdown

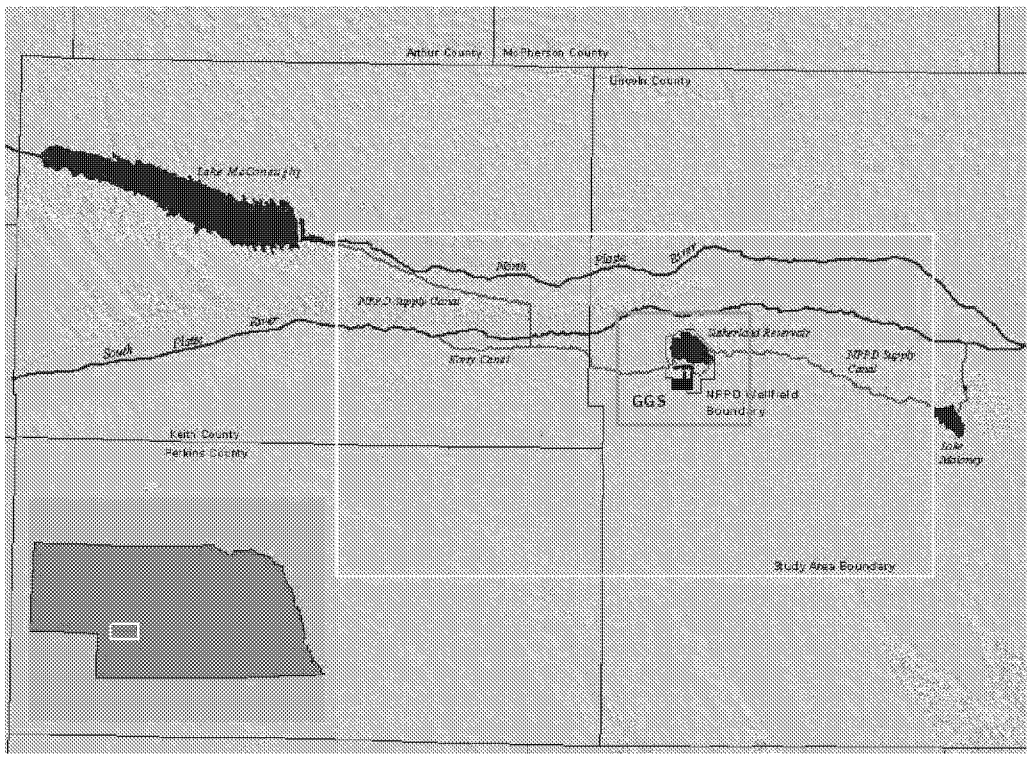
4-ft Max Drawdown, July 19 on OW-9 Trip



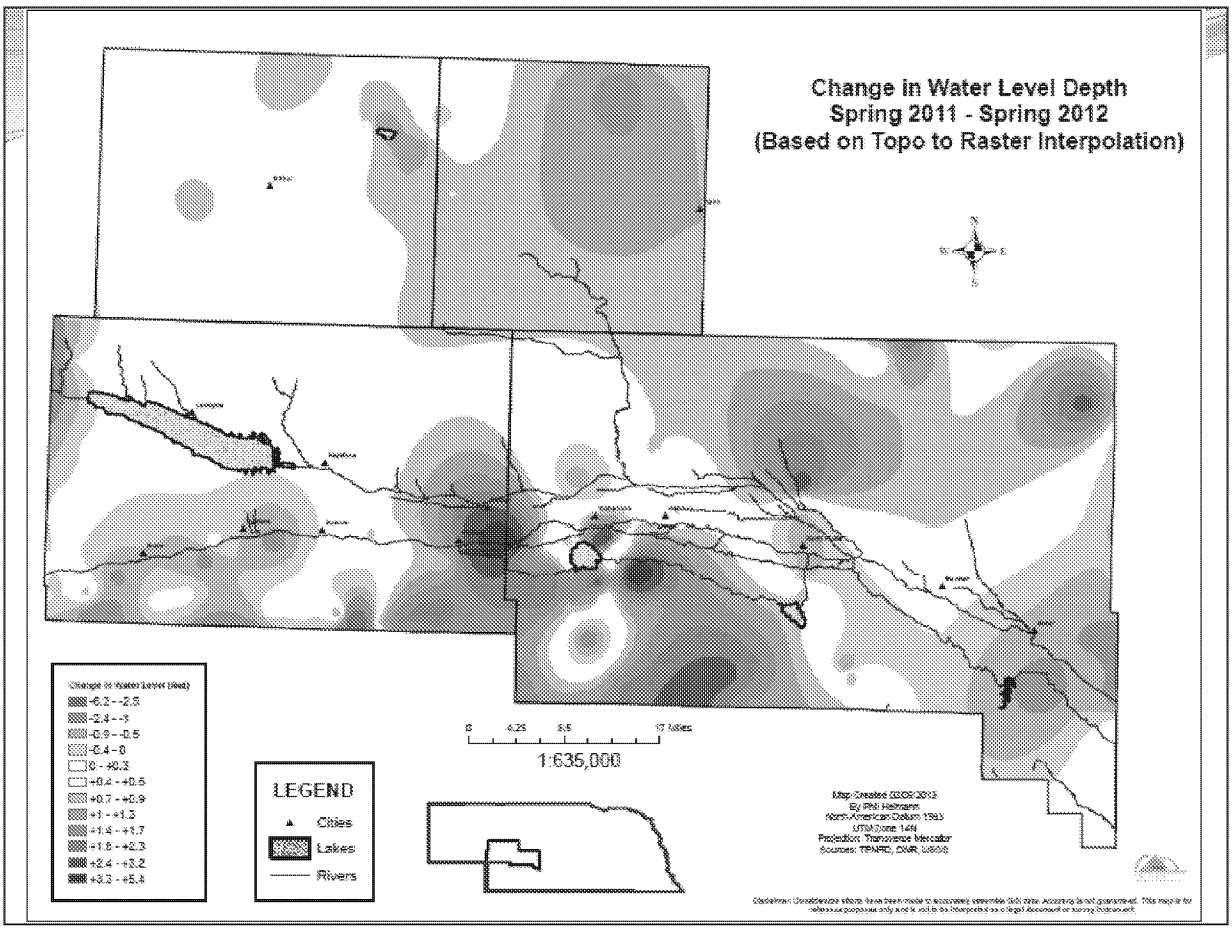

2012 Sutherland Stages, ft
3055.00
3050.00
3045.00
3040.00
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Model
Observed
2012 Modeling Summary
2012 MW-5
3030.00
3025.00
3020.00
3015.00
3010.00
3005.00
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Model
Observed

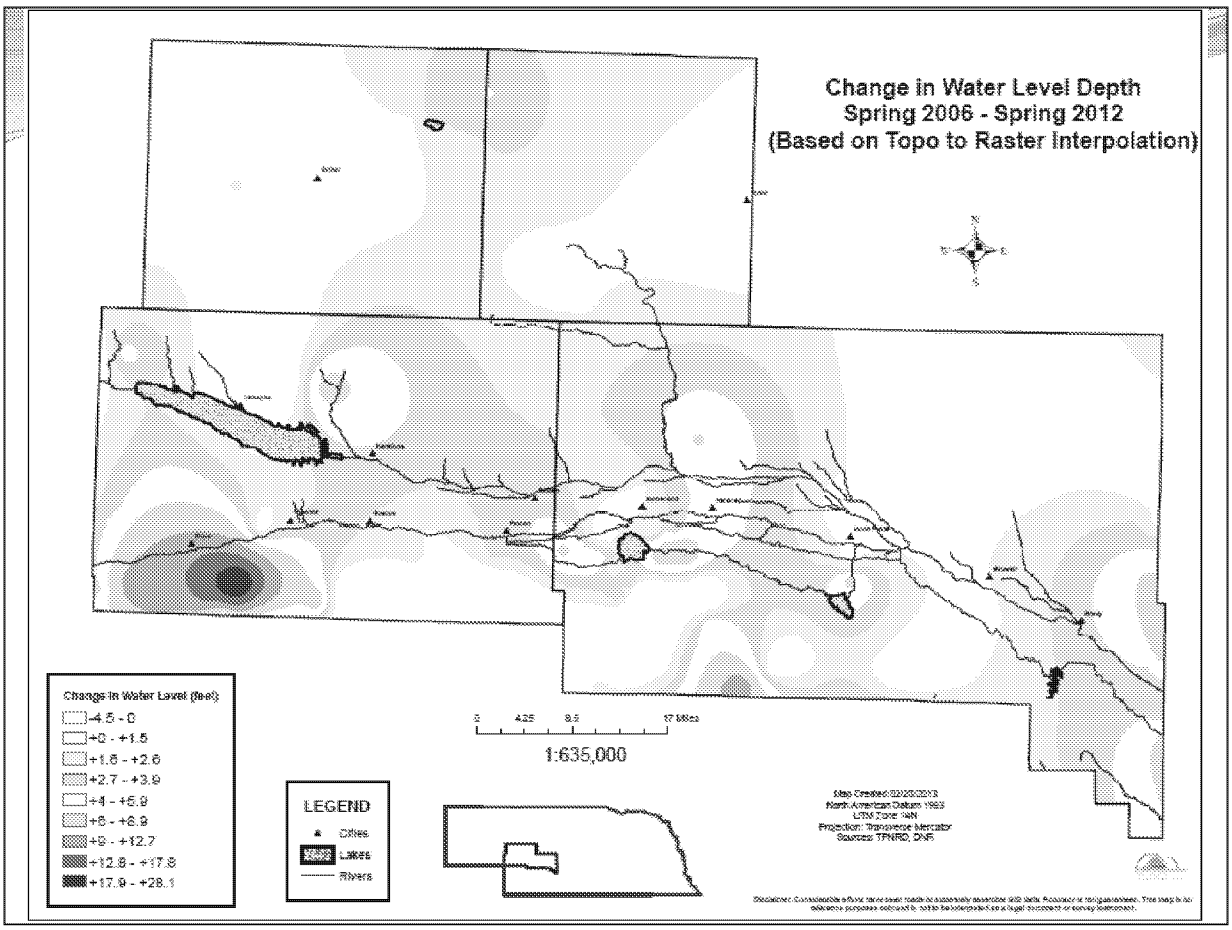

2012 MW-4
3035.00
3030.00
3025.00
3020.00
3015.00
3010.00
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Model
Observed
2012 MW-9
3025.00
3020.00
3015.00
3010.00
3005.00
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Model
Observed

Model Boundary



TPNRD Well Monitoring


Change in Water Level Depth
Spring 2011 - Spring 2012
(Based on Topo to Raster Interpolation)
Change in Water Level (feet)
-6.2 - -2.5
-2.4 - -1
-0.9 - -0.5
-0.4 - 0
0 - +0.3
+0.4 - +0.6
+0.7 - +0.9
+1 - +1.3
+1.4 - +1.7
+1.8 - +2.3
+2.4 - +3.2
+3.3 - +5.4
LEGEND
Cities
Lakes
Rivers
0 4.25 8.5 17 Miles
1:635,000
Map Created 03/05/2013
By Phil Heilmann
North American Datum 1983
UTM Zone 14N
Projection: Transverse Mercator
Sources: TPWRD, DWR, USGS


Change in Water Level Depth
Spring 2006 - Spring 2012
(Based on Topo to Raster Interpolation)
Change in Water Level (feet)
-4.5 - 0
+0 - +1.5
+1.6 - +2.6
+2.7 - +3.9
+4 - +5.9
+6 - +8.9
+9 - +12.7
+12.8 - +17.8
+17.9 - +28.1
LEGEND
Cities
Lakes
Rivers
0 4.25 8.5 17 Miles
1:635,000
Map Created 02/23/2013
North American Datum 1983
UTM Zone 14N
Projection: Transverse Mercator
Sources: TPNRD, DNR

2013 Conditions and Operations

Nebraska Platte River Water Supplies
March 1, 2013

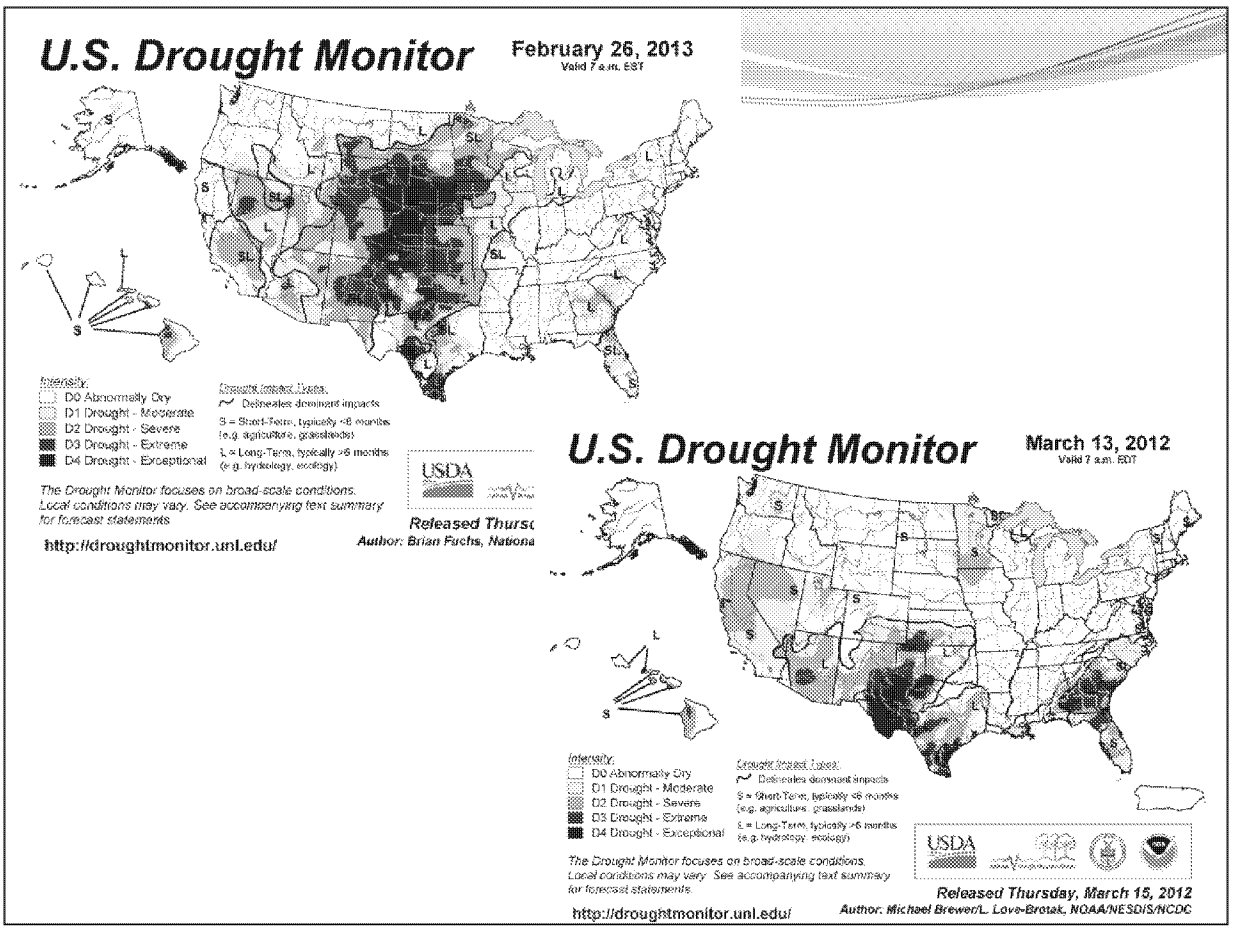
	Current (AF)	30-yr Average (AF)	Last year (AF)
Wyoming System Total Storage	**1,374,900**	**1,648,100**	**2,242,800**

	Snowpack (% avg)	Flow (cfs)	Average (cfs)	Last year (cfs)
South Platte River	**64**			
At Roscoe		**40**	**714**	**786**
North Platte River	**76**			
At Lewellen		**922**	**1,291**	**1,242**

	Current (AF)	30-yr Average (AF)	Last year (AF)
Lake McConaughy	**1,109,300**	**1,233,000**	**1,457,000**

All Time Low – 342,000 AF (9/2004)
Environmental Account– 69,765 AF (9/30/12)

19


U.S. Drought Monitor
February 26, 2013
Valid 7 a.m. EST
Intensity:
D0 Abnormally Dry
D1 Drought - Moderate
D2 Drought - Severe
D3 Drought - Extreme
D4 Drought - Exceptional
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
L = Long-Term, typically >6 months (e.g. hydrology, ecology)
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.
http://droughtmonitor.unl.edu/
USDA
Released Thurs
Author: Brian Fuchs, Nationa
U.S. Drought Monitor
March 13, 2012
Valid 7 a.m. EDT
Intensity:
D0 Abnormally Dry
D1 Drought - Moderate
D2 Drought - Severe
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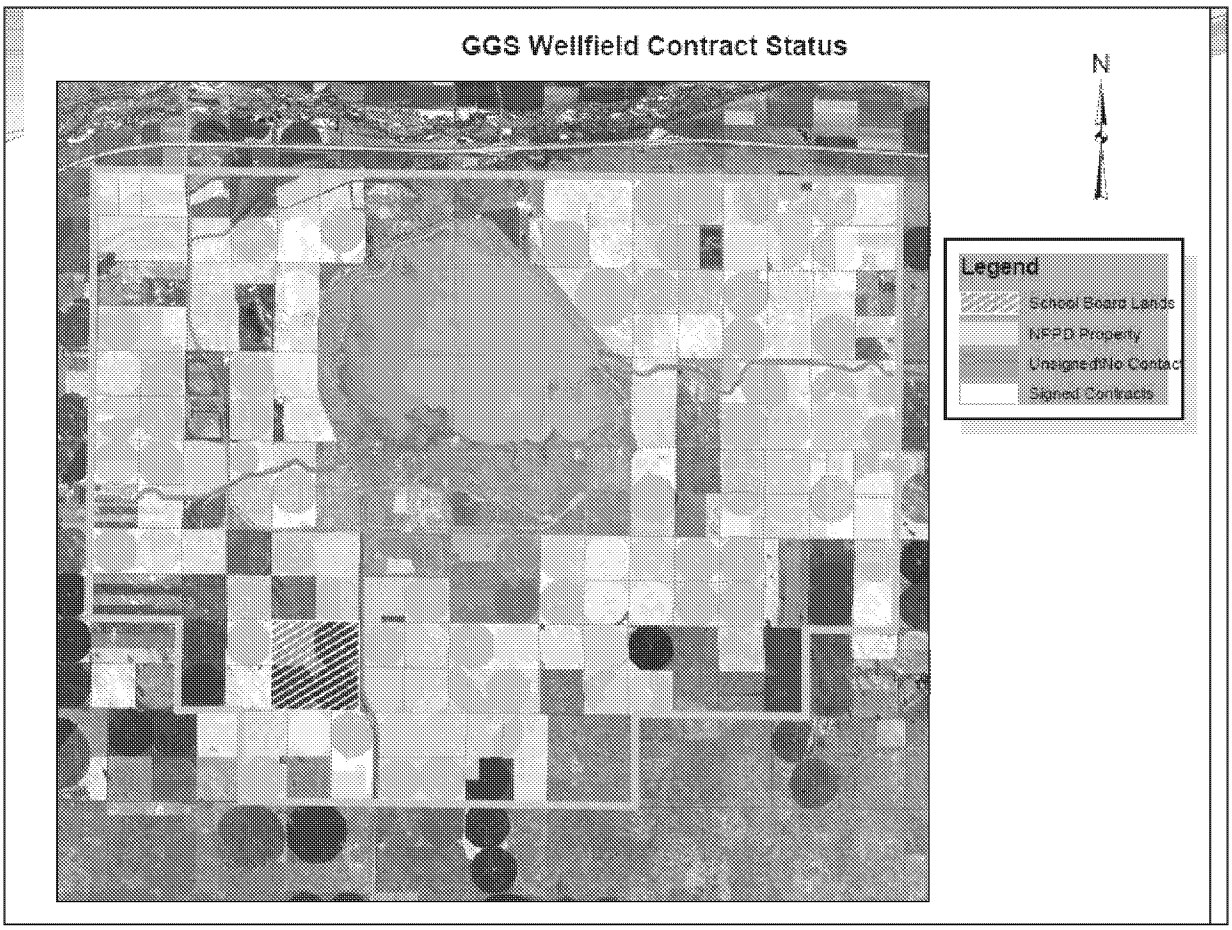
http://droughtmonitor.unl.edu/
USDA
Released Thursday, March 15, 2012
Author: Michael Brewer/L. Love-Brotak, NOAA/NESDIS/NCDC

Wellfield Mitigation Agreement Review

- Last 3-year review of baseline yields was 2011. Next 3-year review of baseline yields is 2014.
- December 2013 Futures for February 2013 is $5.65/bushel of corn.
- Landowner Agreement Map


GGS Wellfield Contract Status
N
Legend
School Board Lands
NPPD Property
Unsigned/No Contact
Signed Contracts

Questions, Comments, Recommendations

Transmission Line Discussion (Mick Spencer)