

Support Services for the  
**WATER FUNDING TASK FORCE**

7 November, 2013



# LB517 Funding Levels

## Considerations given to:

- **Municipal Needs** – What projects are required to upgrade or maintain the ability to provide safe, reliable drinking water to Nebraskans?
- **Irrigation District Projects** – What changes to existing systems are necessary to meet conjunctive management goals?
- **NRD Projects** - What projects are necessary to achieve sustainability in each District?

# Municipalities

## NDEQ State Revolving Fund Intended Use Plan (FY14):

- **307 Projects** from the Drinking Water Intended Use Plan of the State Revolving Fund were analyzed. A total of \$550M for those projects are reported
- We tried to find drinking water projects related to **sustainability** issues.
- In the end, we settled on non-growth related **quantity** problems and **quality** problems related to nitrates and arsenic.
- **Maintenance** was generally not considered a sustainability issue.

# Municipalities

## NDEQ State Revolving Fund Intended Use Plan (FY14):

- **Infrastructure** – Planned projects whose main purpose is to deal with **quantity** problems (not expansion due to growth) or **quality** problems (from source pollution.)
  - 81 water **quality** projects totaled **\$144M**
  - Of the 81 projects, 48 address nitrate problems, and 27 address arsenic problems
  - No water **quantity** projects were listed???
  - Water quality projects are often caused or made more difficult by water quantity problems

# Irrigation Districts

## 16 Irrigation Districts provided input:

- **Research** – one small NPPD study
- **Infrastructure** – Repair/refurbishing of existing, new automation, lining, burying pipe and structures
- **Integrated Management** – Conjunctive management of canals
- **Compliance** – (none)

# Irrigation Districts

## 16 Irrigation Districts provided input:

- **Research** – one small NPPD study **\$135k / (Sponsored by NRDs)**
- **Infrastructure** – Repair/refurbishing of existing, new automation, lining, burying pipe and structures **\$25.1M / \$181.4M**
- **Integrated Management** – Conjunctive management of canals **(Sponsored by NRDs)**
- **Compliance** – **(Sponsored by NRDs)**

# NRD Projects

**17 of 23 NRDs responded to request. Projects included existing and proposed;**

- **Research** – Geohydrologic and hydrologic studies, water quality studies and modeling, various imagery
- **Infrastructure** – Levees, Dams and Canals....new construction and rehabilitation of existing infrastructure.
- **Integrated Management** – GW Management & Integrated Management Planning, Watershed Planning and Management, Infrastructure Construction and Improvements Related to Conjunctive Management Approaches
- **Compliance** – Water Storage and Timing

# NRD Projects

17 of 23 NRDs responded to request. Projects included existing and proposed;

- **Research** – Geohydrologic and hydrologic studies, water quality studies and modeling, various imagery **\$29.2M / \$24.1M**
- **Infrastructure** – Levees, Dams and Canals....new construction and rehabilitation of existing infrastructure. **\$260.3M / \$185.1M**
- **Integrated Management** – GW Management & Integrated Management Planning, Watershed Planning and Management, Infrastructure Construction and Improvements Related to Conjunctive Management Approaches **\$42.5M / \$89.6M**
- **Compliance** – Water Storage and Timing **\$10.5M / \$131.5M**

# What the Numbers Mean

**Total Existing Projects: \$488.6M \***

**Total Proposed Projects: \$907.6M \***

**Proposed Projects In 10 Years @ 3% Inflation: \$1.22B**

**Proposed Projects in 20 Years @ 3% Inflation: \$1.64B**

**40% Local Cost Share (on Proposed Projects) Today/10 Yrs/20 Yrs:  
\$363M/\$488M/\$656M**

# How Long to Achieve Sustainability?

Several factors affect the time in which Statewide Sustainability can be achieved;

- Each Water User must understand their role
- We have to understand the framework in which we live
- Projects take time to plan, when done properly
- Project permitting for large infrastructure projects takes a LONG time
- Local sponsors ability to pay must be considered

# Generating Additional Local Cost Share

NATURAL RESOURCES DISTRICTS OVERALL SUMMARY OF 2013-2014 ADOPTED BUDGETS									
Natural Resources District	Valuation	Total Disbursement & Transfers	Total Property Tax Requirements	3-2014 Cents Actual Valuat	2012-20 Levy	Potential Revenue at 8.5 mil	Potential Revenue at 7.5 mil	Potential Revenue at 6.5 mil	Potential Revenue at 5.5
CENTRAL PLATTE NRD	\$ 12,277,337,224.00	\$ 29,475,528.61	\$ 5,175,275.90	4.21500	4.4710	\$ 5,260,839.00	\$ 4,033,105.28	\$ 2,805,371.56	\$ 1,577,637.83
LEWIS & CLARK NRD	\$ 2,859,864,860.00	\$ 1,765,551.00	\$ 548,500.00	1.91800	1.9043	\$ 1,882,363.05	\$ 1,596,376.56	\$ 1,310,390.08	\$ 1,024,403.59
LITTLE BLUE NRD	\$ 6,338,878,220.00	\$ 3,048,594.00	\$ 1,812,718.00	2.85970	2.9587	\$ 3,575,317.48	\$ 2,941,429.66	\$ 2,307,541.84	\$ 1,673,654.02
LOWER BIG BLUE NRD	\$ 4,418,854,981.00	\$ 7,575,292.20	\$ 1,479,145.00	3.34740	3.7645	\$ 2,276,859.22	\$ 1,834,973.72	\$ 1,393,088.22	\$ 951,202.72
LOWER ELKHORN NRD	\$ 12,914,269,874.00	\$ 7,217,423.00	\$ 3,436,836.00	2.62870	2.9236	\$ 7,582,355.27	\$ 6,290,928.28	\$ 4,999,501.30	\$ 3,708,074.31
LOWER LOUP NRD	\$ 10,548,151,148.00	\$ 7,256,480.90	\$ 3,138,626.80	2.97550	1.9913	\$ 5,827,326.10	\$ 4,772,510.99	\$ 3,717,695.87	\$ 2,662,880.76
LOWER NIOBRARA NRD	\$ 1,859,450,471.00	\$ 1,484,400.00	\$ 382,749.60	2.05840	2.3863	\$ 1,197,783.62	\$ 1,011,838.57	\$ 825,893.52	\$ 639,948.47
LOWER PLATTE NORTH NRD	\$ 7,175,240,091.00	\$ 7,563,504.00	\$ 3,774,380.10	5.26030	5.4862	\$ 2,324,562.53	\$ 1,607,038.52	\$ 889,514.51	\$ 171,990.50
LOWER PLATTE SOUTH NRD	\$ 24,307,449,008.00	\$ 23,860,852.00	\$ 8,768,509.00	3.60730	3.7750	\$ 11,892,905.58	\$ 9,462,160.68	\$ 7,031,415.77	\$ 4,600,670.87
LOWER REPUBLICAN NRD	\$ 2,774,016,242.00	\$ 38,514,148.00	\$ 760,100.00	2.74010	3.2550	\$ 1,597,805.62	\$ 1,320,403.99	\$ 1,043,002.37	\$ 765,600.74
MIDDLE NIOBRARA NRD	\$ 1,436,261,547.00	\$ 1,272,000.00	\$ 491,654.40	3.42320	3.1648	\$ 729,161.26	\$ 585,535.11	\$ 441,908.95	\$ 298,282.80
MIDDLE REPUBLICAN NRD	\$ 2,934,341,772.00	\$ 66,803,093.00	\$ 1,001,814.00	3.41410	3.4141	\$ 1,492,376.88	\$ 1,198,942.70	\$ 905,508.53	\$ 612,074.35
NEMAHA NRD	\$ 5,517,366,231.00	\$ 4,645,021.00	\$ 2,413,416.21	4.37420	4.4979	\$ 2,276,354.96	\$ 1,724,618.34	\$ 1,172,881.71	\$ 621,145.09
NORTH PLATTE NRD	\$ 4,129,462,658.00	\$ 4,451,981.01	\$ 2,182,321.26	5.28480	4.8737	\$ 1,327,704.83	\$ 914,758.57	\$ 501,812.30	\$ 88,866.04
PAPIO-MISSOURI RIVER NRD	\$ 53,645,306,949.00	\$ 92,458,463.71	\$ 17,570,415.12	2.42240	3.0606	\$ 32,603,471.75	\$ 27,238,941.06	\$ 21,874,410.36	\$ 16,509,879.67
SOUTH PLATTE NRD	\$ 2,064,432,548.00	\$ 2,389,061.00	\$ 1,312,758.79	6.35890	6.5689	\$ 442,015.65	\$ 235,572.40	\$ 29,129.14	
TRI-BASIN NRD	\$ 3,531,943,702.00	\$ 2,817,340.34	\$ 1,527,091.65	4.32360	3.6981	\$ 1,475,080.97	\$ 1,121,886.60	\$ 768,692.23	\$ 415,497.86
TWIN PLATTE NRD	\$ 4,576,345,315.00	\$ 15,303,058.50	\$ 3,162,300.00	6.91010	6.9101	\$ 727,593.14	\$ 269,958.61		
UPPER BIG BLUE NRD	\$ 11,177,884,097.00	\$ 5,648,799.26	\$ 2,926,479.04	2.61810	2.4289	\$ 6,574,719.65	\$ 5,456,931.24	\$ 4,339,142.83	\$ 3,221,354.42
UPPER ELKHORN NRD	\$ 3,140,502,893.00	\$ 2,103,344.00	\$ 712,400.00	2.22685	2.2124	\$ 1,970,084.57	\$ 1,656,034.28	\$ 1,341,983.99	\$ 1,027,933.70
UPPER LOUP NRD	\$ 1,532,844,569.00	\$ 900,200.00	\$ 404,725.00	2.64030	2.6404	\$ 898,200.93	\$ 744,916.48	\$ 591,632.02	\$ 438,347.56
UPPER NIOBRARA-WHITE NRD	\$ 2,751,385,232.00	\$ 1,356,780.00	\$ 598,829.00	2.17650	2.1763	\$ 1,739,838.45	\$ 1,464,699.93	\$ 1,189,561.41	\$ 914,422.88
UPPER REPUBLICAN NRD	\$ 2,367,150,296.00	\$ 28,925,128.00	\$ 2,012,077.75	8.50000	5.8524	\$ -			
<b>Average</b>	<b>\$8,012,119,127.30</b>	<b>\$ 15,514,610.59</b>	<b>\$ 2,851,874.90</b>	<b>3.75145</b>	<b>3.67020</b>	<b>\$ 95,674,720.52</b>	<b>\$ 77,483,561.55</b>	<b>\$ 59,480,078.51</b>	<b>\$ 41,923,868.19</b>

# So What is the Answer?

By generating \$50M a year into a Water Sustainability Fund;

- It would take about 23 years to implement the existing and proposed projects as identified today **with zero local cost share**
- It would take about 18 years to implement the existing and proposed projects as identified today **with 20% local cost share**
- It would take about 12 years to implement the existing and proposed projects as identified today **with 40% local cost share**
- **At a funding level of \$30M per year and a 40% local cost share, it would take approximately 17 years to implement the existing and proposed projects**