

OKAA Exh 1

## Groundwater Basins Maximum Annual Yields

Name of Basin	Date of Tentative Order	Date of Final Order	Equal Proportionate Share	Maximum Annual Yield
Ashland Isolated Terrace	07/11/2000		1.0	15,360
Pennsylvanian	07/11/2000		1.6	2,549,971
North-Central Oklahoma	08/08/2000		1.5	2,845,767
Woodbine	03/13/2001		1.5	2,297,800
El Reno	05/08/2001		1.0	3,738,908
Cherokee Group	05/08/2001		1.3	1,001,588
East-Central Oklahoma	06/12/2001		1.7	1,640,312
Tillman Terrace	08/08/1978	12/12/1978	1.0	189,760
North Fork of the Red River Alluvial and Terrace	05/12/1981	09/08/1981	1.0	343,042
Enid Isolated Terrace	08/10/1982	11/09/1982	0.5	26,000
Elk City Sandstone	08/10/1982	11/09/1982	1.0	157,440
North Canadian River Alluvium and Terrace - Phase 1	10/14/1986	08/08/1983	1.0	426,000
Gerty Sand Isolated Terrace	12/13/1988	09/12/1989	0.65	28,112
North Canadian River Alluvium and Terrace - Phase 2	10/14/1986	04/10/1990	1.0	211,840
Washita River Alluvium and Terrace - Reach 1	11/12/1986	11/13/1990	2.0	120,320
Washita River Alluvium and Terrace - Reach 3	11/12/1986	11/13/1990	1.5	81,840
Washita River Alluvium and Terrace - Reach 4	11/12/1986	11/13/1990	1.0	46,935
Vamoosa-Ada	11/13/1990	05/06/1991	2.0	2,968,000
North Canadian River Alluvium and Terrace - Phase 3A	07/12/1994	02/14/1995	0.8	48,128
North Canadian River Alluvium and Terrace - Phase 3B	07/12/1994	02/14/1995	1.3	138,944
Antlers Sandstone	07/12/1994	02/14/1995	2.1	5,913,600
Beaver Creek Alluvium and Terrace	10/12/1999	06/13/2000	1.0	18,662
Hennessey - Garber	10/12/1999	06/13/2000	1.6	550,400
Post Oak	10/12/1999	06/13/2000	2.0	42,560
Cache Creek Alluvium and Terrace	10/12/1999	06/13/2000	1.0	92,435
Haworth Isolated Terrace - Region 1	02/08/2000	01/09/2001	1.0	8,979
Haworth Isolated Terrace - Region	02/08/2000	01/09/2001	1.0	6,885
Little River Alluvium and Terrace	02/08/2000	01/09/2001	1.0	87,680
Ogallala - Panhandle Region	02/13/2001	03/12/2002	2.0	2,285,212
Ogallala - Northwest Region	02/13/2001	03/12/2002	1.4	1,198,512

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# Groundwater Basins Maximum Annual Yields

<i>Basin Name</i>	<i>Basin Type</i>	<i>Approval Date</i>	<i>20-Year Update</i>
Tillman Terrace [r1]	Major	12/12/1978	1998 - Completed
North Fork of the Red River Alluvial and Terrace	Major	09/08/1981	2001
Enid Isolated Terrace	Major	11/09/1982	2002
Elk City Sandstone	Major	11/09/1982	2002
North Canadian River Alluvium and Terrace - Phase 1	Major	08/08/1983	2003
Gerty Sand Isolated Terrace	Major	09/12/1989	2009
North Canadian River Alluvium and Terrace - Phase 2	Major	04/10/1990	2010
Washita River Alluvium and Terrace - Reach 1	Major	11/13/1990	2010
Washita River Alluvium and Terrace - Reach 3	Major	11/13/1990	2010
Washita River Alluvium and Terrace - Reach 4	Major	11/13/1990	2010
Vamoosa-Ada	Major	05/06/1991	2011
North Canadian River Alluvium and Terrace - Phase 3A	Major	02/14/1995	2015
North Canadian River Alluvium and Terrace - Phase 3B	Major	02/14/1995	2015
Antlers Sandstone	Major	02/14/1995	2015
Beaver Creek Alluvium and Terrace	Minor	06/13/2000	2020
Hennessey - Garber	Minor	06/13/2000	2020
Post Oak	Minor	06/13/2000	2020
Cache Creek Alluvium and Terrace	Minor	07/11/2000	2020
Haworth Isolated Terrace - Region 1	Minor	01/09/2001	2021
Haworth Isolated Terrace - Region 2	Minor	01/09/2001	2021
Little River Alluvium and Terrace	Minor	02/13/2001	2021
Ogallala - Panhandle	Minor	03/12/2002	2022
Ogallala - Northwest Region	Minor	03/12/2002	2022

Major groundwater basin studies and maximum annual yield determinations typically have cost approximately \$166,000 per year for 3.5 years (\$580,000 total). There are about 6 major groundwater basins which need to be studied. Alluvium & terrace (A&T) basins are typically divided into 2 - 4 reaches for study. Three major basins need to have their maximum annual yield determinations completed, which would take about 1 year for each.

Minor groundwater basin studies cost about \$68,700 per year for 1.5 years (\$103,100 total). There are over a dozen minor groundwater basins that need to be studied.

Twenty year updates typically take one year of review for \$68,700 and if a re-study is indicated then a major basin restudy would cost about \$430,000 over 2.5 years and a minor basin restudy would cost about \$103,000 over 1.5 years. Of the ten studies whose yield needs to be reviewed, potentially 1 to 3 would require a full re-study, due to antiquated modeling, etc.

## Major GW Basins Remaining to be Studied:

Salt Fork of the Arkansas River A&T	Rubidoux
Arkansas River A&T (3 study reaches)	Cimarron River A&T - finish maximum annual yield
Canadian River A&T (3 study reaches)	Blaine - finish maximum annual yield
Red River A&T (4 study reaches)	Rush Springs - finish study and maximum annual yield
Arbuckle-Timbered Hills	

OKLAHOMA WATER RESOURCES BOARD



the water agency

FACSIMILE TRANSMITTAL SHEET

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URGENT  FOR REVIEW  PLEASE COMMENT  PLEASE REPLY  PLEASE RECYCLE

NOTES/COMMENTS:

Jim, Bob Fabian says this is the most up-to-date list.

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