



Weld County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	0	0
Lower Dawson	0	0	0
Denver	0	0	0
Upper Arapahoe	10,000	960,000	970,000
Lower Arapahoe	500,000	1,230,000	1,730,000
Laramie-FoxHills	7,860,000	7,490,000	15,350,000
Totals	8,730,000	9,680,000	18,050,000

Boulder County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	0	0
Lower Dawson	0	0	0
Denver	0	0	0
Upper Arapahoe	0	0	0
Lower Arapahoe	10,000	0	10,000
Laramie-FoxHills	50,000	170,000	220,000
Totals	60,000	170,000	230,000

Morgan County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	0	0
Lower Dawson	0	0	0
Denver	0	0	0
Upper Arapahoe	0	0	0
Lower Arapahoe	0	0	0
Laramie-FoxHills	10,000	2,050,000	2,060,000
Totals	10,000	2,050,000	2,060,000

Jefferson County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	0	0
Lower Dawson	0	0	0
Denver	0	1,210,000	1,210,000
Upper Arapahoe	960,000	300,000	1,260,000
Lower Arapahoe	1,110,000	0	1,110,000
Laramie-FoxHills	130,000	960,000	1,090,000
Totals	2,200,000	2,470,000	4,670,000

Adams County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	0	0
Lower Dawson	0	0	0
Denver	110,000	5,110,000	5,220,000
Upper Arapahoe	2,390,000	4,480,000	6,870,000
Lower Arapahoe	5,210,000	440,000	5,650,000
Laramie-FoxHills	12,600,000	3,350,000	15,950,000
Totals	20,310,000	13,380,000	33,690,000

Denver County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	0	0
Lower Dawson	0	0	0
Denver	0	2,580,000	2,580,000
Upper Arapahoe	1,200,000	390,000	1,590,000
Lower Arapahoe	1,500,000	0	1,500,000
Laramie-FoxHills	3,020,000	0	3,020,000
Totals	5,720,000	2,970,000	8,690,000

Arapahoe County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	40,000	40,000
Lower Dawson	20,000	620,000	640,000
Denver	480,000	9,350,000	9,830,000
Upper Arapahoe	5,670,000	2,710,000	8,380,000
Lower Arapahoe	2,290,000	0	2,290,000
Laramie-FoxHills	11,200,000	50,000	11,250,000
Totals	19,660,000	12,770,000	32,430,000

Douglas County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	20,000	7,610,000	7,630,000
Lower Dawson	3,380,000	1,360,000	4,740,000
Denver	11,610,000	6,740,000	18,350,000
Upper Arapahoe	15,650,000	2,040,000	17,690,000
Lower Arapahoe	0	0	0
Laramie-FoxHills	8,770,000	990,000	9,760,000
Totals	39,430,000	18,740,000	58,170,000

Lincoln County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	0	0
Lower Dawson	0	0	0
Denver	0	0	0
Upper Arapahoe	0	0	0
Lower Arapahoe	0	0	0
Laramie-FoxHills	10,000	60,000	70,000
Totals	10,000	60,000	70,000

Elbert County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	0	760,000	760,000
Lower Dawson	2,410,000	1,740,000	4,150,000
Denver	10,910,000	6,540,000	17,450,000
Upper Arapahoe	19,470,000	3,250,000	22,720,000
Lower Arapahoe	0	0	0
Laramie-FoxHills	19,840,000	4,670,000	24,510,000
Totals	52,630,000	16,960,000	69,590,000

El Paso County

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	200,000	9,080,000	9,280,000
Lower Dawson	60,000	0	60,000
Denver	4,670,000	11,950,000	16,620,000
Upper Arapahoe	10,020,000	8,520,000	18,540,000
Lower Arapahoe	0	0	0
Laramie-FoxHills	16,140,000	3,990,000	20,130,000
Totals	31,090,000	33,540,000	64,630,000

DEFINITIONS

Non- Trib -- Non-tributary ground water
Water that may be appropriated this is not subject to the prior appropriation doctrine. This water is subject to a 2% relinquishment requirement.

Not Non-Trib -- Not Non-tributary
This water may only be used if there is a court adjudicated plan of augmentation. Tables include both ground water within one mile of a natural stream and ground water more than one mile from a stream. Augmentation plans for wells within one mile of a stream must provide for replacement of all depletions. Augmentation plans for wells more than one mile from a stream must provide for replacement of 4% of the water pumped and the plan must provide for augmentation of depletions that occur after pumping stops.

An acre-foot is the volume of water that will cover one acre of land one foot deep. This is about 326,000 gallons and is enough water to serve approximately two typical suburban residences for a year.

Senate Bill 5 (1985) established the definitions of non-tributary and not non-tributary ground water.



This map was prepared by Leonard Rice Consulting Water Engineers, Inc. using the State Engineers Office, Senate Bill 5 data base.



The tables on this map show, by county and for the entire Denver Basin, the volume of ground water stored in each the Denver Basin aquifers that is theoretically recoverable. The volumes are expressed in units of acre-feet.

Basin Totals

Aquifer	Non-Trib	Not Non-trib	Total
Upper Dawson	220,000	17,490,000	17,710,000
Lower Dawson	5,870,000	3,720,000	9,590,000
Denver	27,780,000	43,480,000	71,260,000
Upper Arapahoe	55,370,000	22,650,000	78,020,000
Lower Arapahoe	10,620,000	1,670,000	12,290,000
Laramie-FoxHills	79,630,000	23,780,000	103,410,000
Totals	179,490,000	112,790,000	292,280,000

Colorado water law allows up to one percent of the stored volume in each aquifer to be withdrawn by wells each year.

GENERAL DISCLAIMER

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WATER RIGHTS GROUND WATER CIVIL DESIGN AND CONSTRUCTION WATER RESOURCES PLANNING

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GROUND WATER RESOURCES OF THE DENVER BASIN