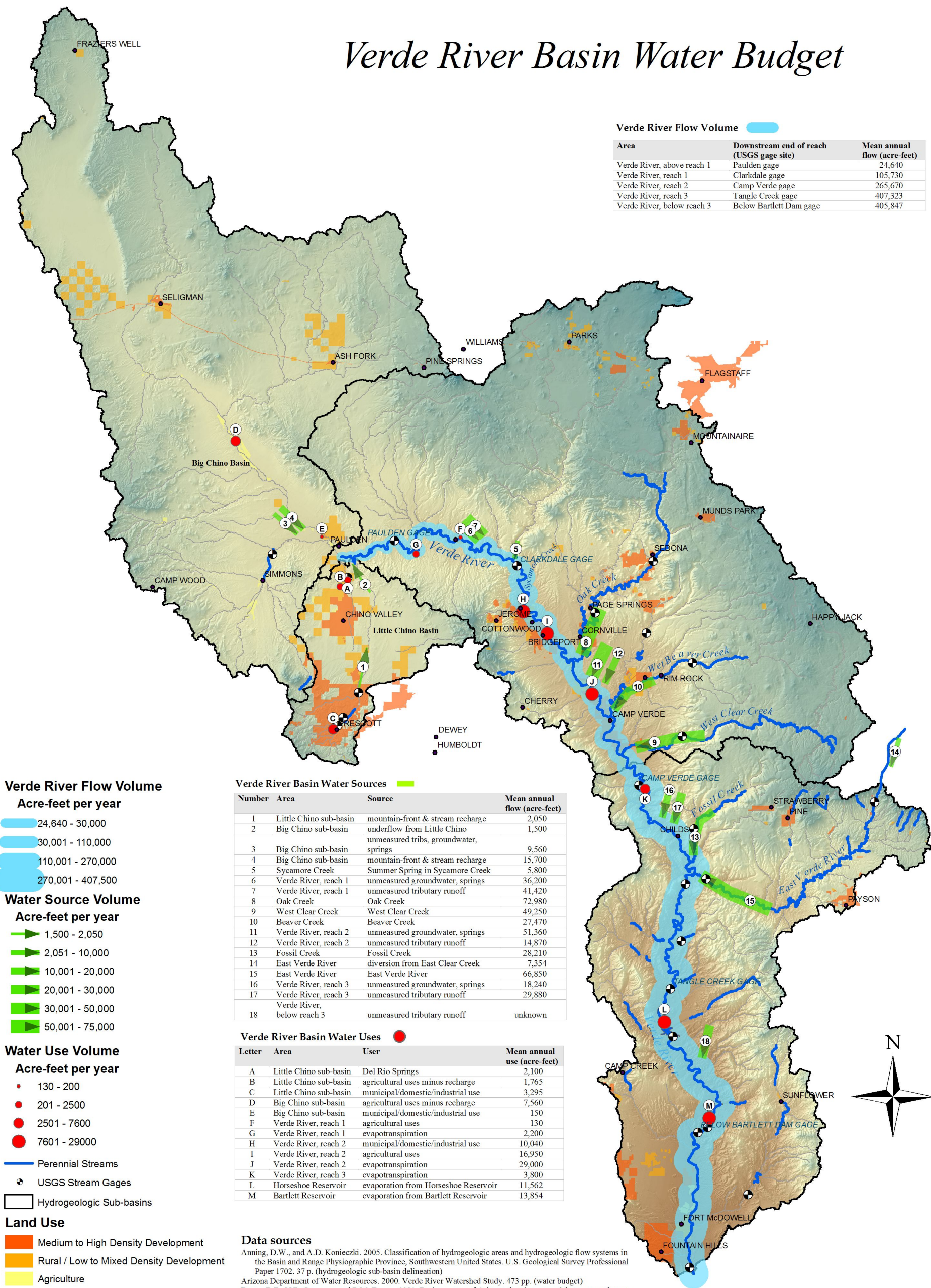


Verde River Basin Water Budget

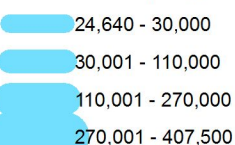
Verde River Flow Volume

Area	Downstream end of reach (USGS gage site)	Mean annual flow (acre-feet)
Verde River, above reach 1	Paulden gage	24,640
Verde River, reach 1	Clarkdale gage	105,730
Verde River, reach 2	Camp Verde gage	265,670
Verde River, reach 3	Tangle Creek gage	407,323
Verde River, below reach 3	Below Bartlett Dam gage	405,847



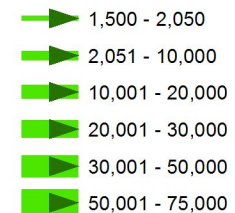
Verde River Flow Volume

Acre-feet per year



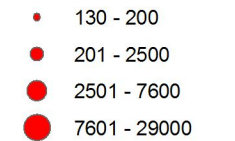
Water Source Volume

Acre-feet per year



Water Use Volume

Acre-feet per year



Perennial Streams

USGS Stream Gages

Hydrogeologic Sub-basins

Land Use



Verde River Basin Water Sources

Number	Area	Source	Mean annual flow (acre-feet)
1	Little Chino sub-basin	mountain-front & stream recharge	2,050
2	Big Chino sub-basin	underflow from Little Chino	1,500
3	Big Chino sub-basin	unmeasured tribs, groundwater, springs	9,560
4	Big Chino sub-basin	mountain-front & stream recharge	15,700
5	Sycamore Creek	Summer Spring in Sycamore Creek	5,800
6	Verde River, reach 1	unmeasured groundwater, springs	36,200
7	Verde River, reach 1	unmeasured tributary runoff	41,420
8	Oak Creek	Oak Creek	72,980
9	West Clear Creek	West Clear Creek	49,250
10	Beaver Creek	Beaver Creek	27,470
11	Verde River, reach 2	unmeasured groundwater, springs	51,360
12	Verde River, reach 2	unmeasured tributary runoff	14,870
13	Fossil Creek	Fossil Creek	28,210
14	East Verde River	diversion from East Clear Creek	7,354
15	East Verde River	East Verde River	66,850
16	Verde River, reach 3	unmeasured groundwater, springs	18,240
17	Verde River, reach 3	unmeasured tributary runoff	29,880
18	Verde River, below reach 3	unmeasured tributary runoff	unknown

Verde River Basin Water Uses

Letter	Area	User	Mean annual use (acre-feet)
A	Little Chino sub-basin	Del Rio Springs	2,100
B	Little Chino sub-basin	agricultural uses minus recharge	1,765
C	Little Chino sub-basin	municipal/domestic/industrial use	3,295
D	Big Chino sub-basin	agricultural uses minus recharge	7,560
E	Big Chino sub-basin	municipal/domestic/industrial use	150
F	Verde River, reach 1	agricultural uses	130
G	Verde River, reach 1	evapotranspiration	2,200
H	Verde River, reach 2	municipal/domestic/industrial use	10,040
I	Verde River, reach 2	agricultural uses	16,950
J	Verde River, reach 2	evapotranspiration	29,000
K	Verde River, reach 3	evapotranspiration	3,800
L	Horseshoe Reservoir	evaporation from Horseshoe Reservoir	11,562
M	Bartlett Reservoir	evaporation from Bartlett Reservoir	13,854

Data sources

Anning, D.W., and A.D. Koniczek. 2005. Classification of hydrogeologic areas and hydrogeologic flow systems in the Basin and Range Physiographic Province, Southwestern United States. U.S. Geological Survey Professional Paper 1702. 37 p. (hydrogeologic sub-basin delineation)

Arizona Department of Water Resources. 2000. Verde River Watershed Study. 473 pp. (water budget)

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Bureau of Land Management. Undated. GIS data on housing density based on aerial photography. (land use mapping)

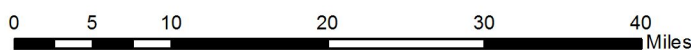
Flora, S.P. 2004. Hydrogeological characterization and discharge variability of springs in the middle Verde River watershed, central Arizona. M.S. thesis, Northern Arizona University. (water budget)

U.S. Environmental Protection Agency, National Assessment Database
http://iaspub.epa.gov/tmdl/w305b_report_v2.huc?p_huc=15060203&p_state=AZ (size of lakes)

U.S. Geological Survey, National Water Information System: Web Interface
<http://waterdata.usgs.gov/AZ/nwis/current/?type=flow> (annual stream flow volume)

University of Arizona, Geotechnical, Rock & Water (GROW) Digital Library <http://www.grow.arizona.edu/Grow--GrowResources.php?ResourceId=208> (evaporation rate from lakes)

USGS National Gap Analysis Program. 2004. Provisional Digital Land Cover Map for the Southwestern United States. Version 1.0. RS/GIS Laboratory, College of Natural Resources, Utah State University. (land use mapping)



Water source and use symbols are diagrammatic for subbasin or river reach and do not indicate specific locations of discharge and use.