JOHN DAY SNOTEL SUMMARY

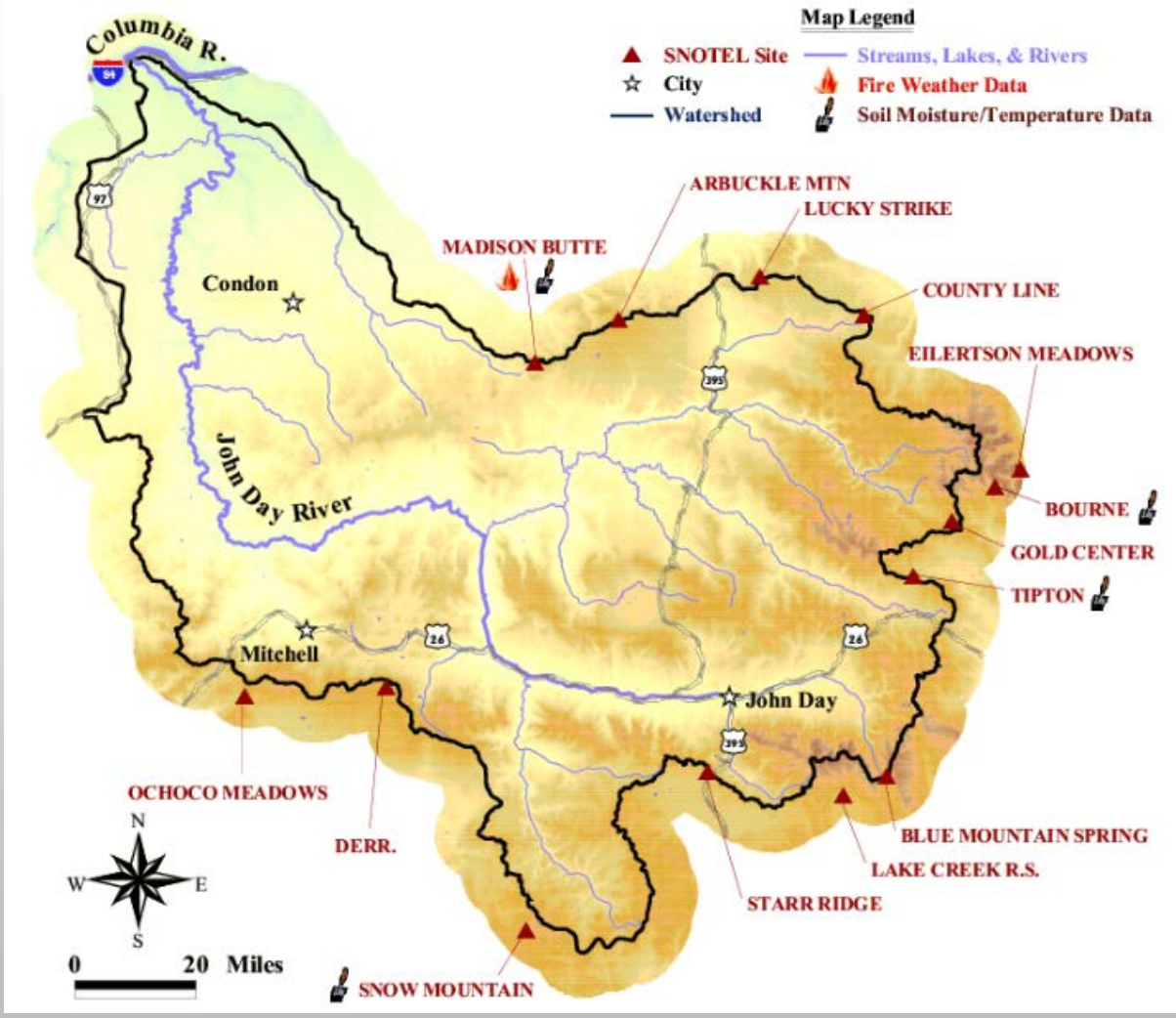
SNOTEL Map and Data Summary

Elevation (ft)			
Lowest elevation		Highest elevation	
4830'	County Line	6230'	Snow Mountain

Annual Basin Precipitation (in)			
Average annual for the basin 27.5"			
Lowest precipitation		Highest precipitation	
20.9"	Starr Ridge	36.0"	Arbuckle Mountain

Normal Seasonal Snowpack (in)			
Peak snow accumulation is mid-March			
Lowest snow water equivalent		Highest snow water equivalent	
5.1"	Madison Butte	21.1"	Arbuckle Mountain

Annual Precipitation that Falls as Snow (%)			
Less snow		Most snow	
24%	Madison Butte	58%	Arbuckle Mountain
Data based on 1981-2010 Normals			



SNOTEL: SNOWPACK & PRECIPITATION

13 SNOTEL sites
3 Snow Courses
1 SNOLITE

SNOTEL:
*Highest elevation: Snow Mountain; 6230 feet
*Lowest elevation: County Line; 4830 feet

SNOTEL snowpack:
*Snowiest: Arbuckle Mountain; Snowpack peaks at 21.1 inches of snow water content
*Least snowiest: Madison Butte; Snowpack peaks at 5.1 inches of snow water content

*On average, the mountain snowpack in the basin typically reaches the peak of the snow accumulation season in mid-March
-Madison Butte and County Line reach their snowpack peak in mid to late February
-Snow Mountain and Arbuckle Mountain reach their snowpack peak during the first of April
*On average, the mountains have snow until late April

SNOTEL precipitation:
*Over half of the SNOTEL sites in the basin receive the lowest amount of mountain precipitation in the state
*Average annual basin-wide precipitation is 27.5 inches
*49% of the annual precipitation falls December through March (snow accumulation season)

*Most annual precipitation: Arbuckle Mountain at 36.0 inches; 58% of the annual precipitation falls as snow
*Lowest annual precipitation: Madison Butte at 20.9 inches; 24% of the annual precipitation falls as snow

*The data summaries in this report are based on 1981-2010 Normals.

John Day SNOTEL Data Table

Station Name	Elevation (ft)	Average Annual Precipitation (in)	Normal Peak Snow Water Equivalent (in)	Percent of Precipitation That Falls as Snow %
Snow Mountain	6230	27.9	13.4	48%
Blue Mountain Spring	5870	33.8	17.0	50%
Bourne	5850	32.9	16.5	50%
Derr.	5850	29.6	15.1	51%
Arbuckle Mtn	5770	36	21.1	58%
Ochoco Meadows	5430	29	12.9	44%
Gold Center	5410	25.8	10.8	42%
Starr Ridge	5250	20.9	7.4	35%
Lake Creek R.S.	5240	24.6	12.3	50%
Madison Butte	5150	21.7	5.1	24%
Tipton	5150	24.6	12.6	51%
Lucky Strike	4970	27.3	8.3	30%
County Line	4830	24	6.1	25%
Highest	6230	36	21.1	58%
Lowest	4830	20.9	5.1	24%

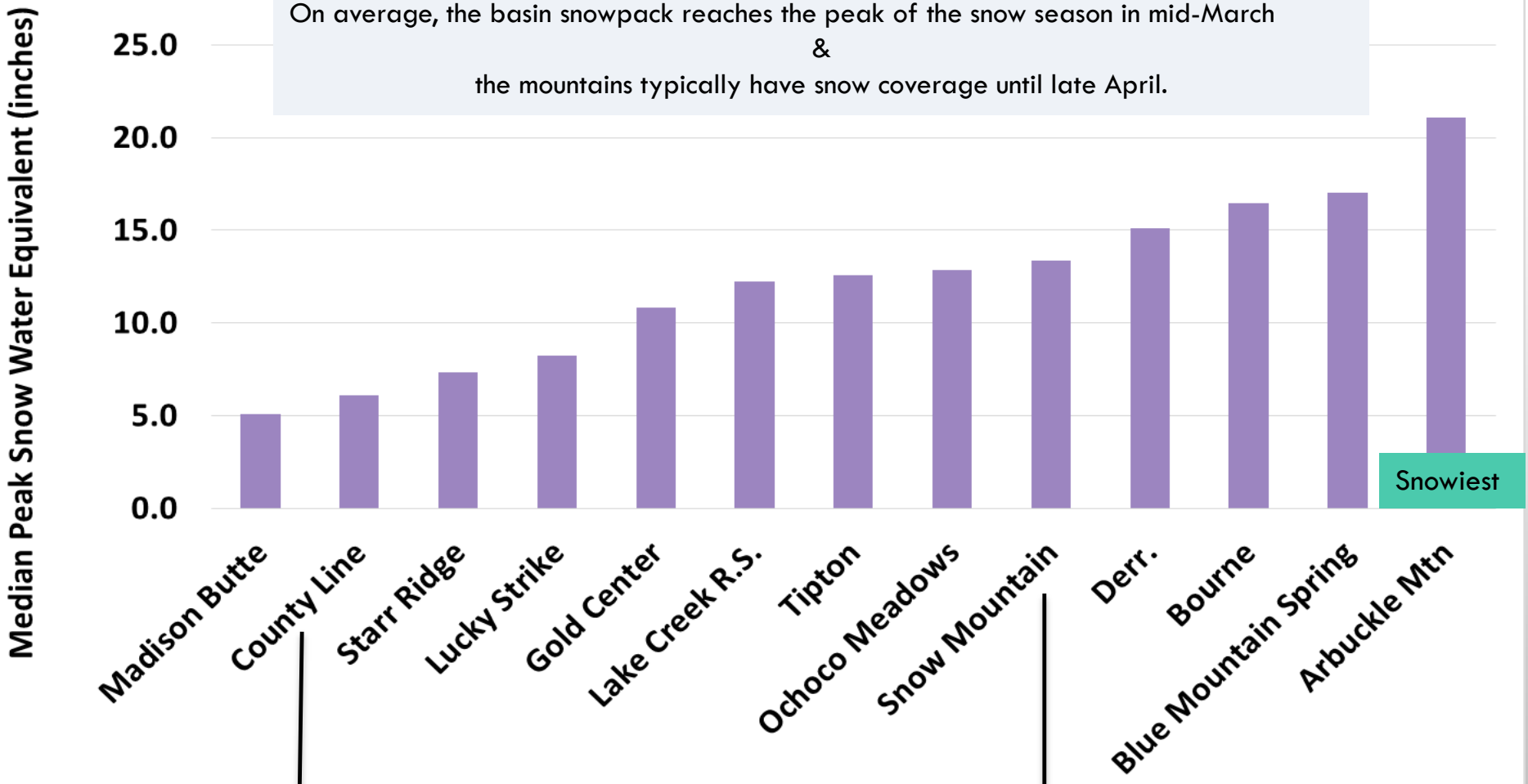
JOHN DAY SNOWPACK

**Snowpack refers to snow water equivalent (SWE); also known as snow water content*

**Peak snowpack is the maximum amount of SWE that accumulates prior to the snowmelt season*

Normal Peak Snow Water Equivalent (in)

On average, the basin snowpack reaches the peak of the snow season in mid-March
&
the mountains typically have snow coverage until late April.

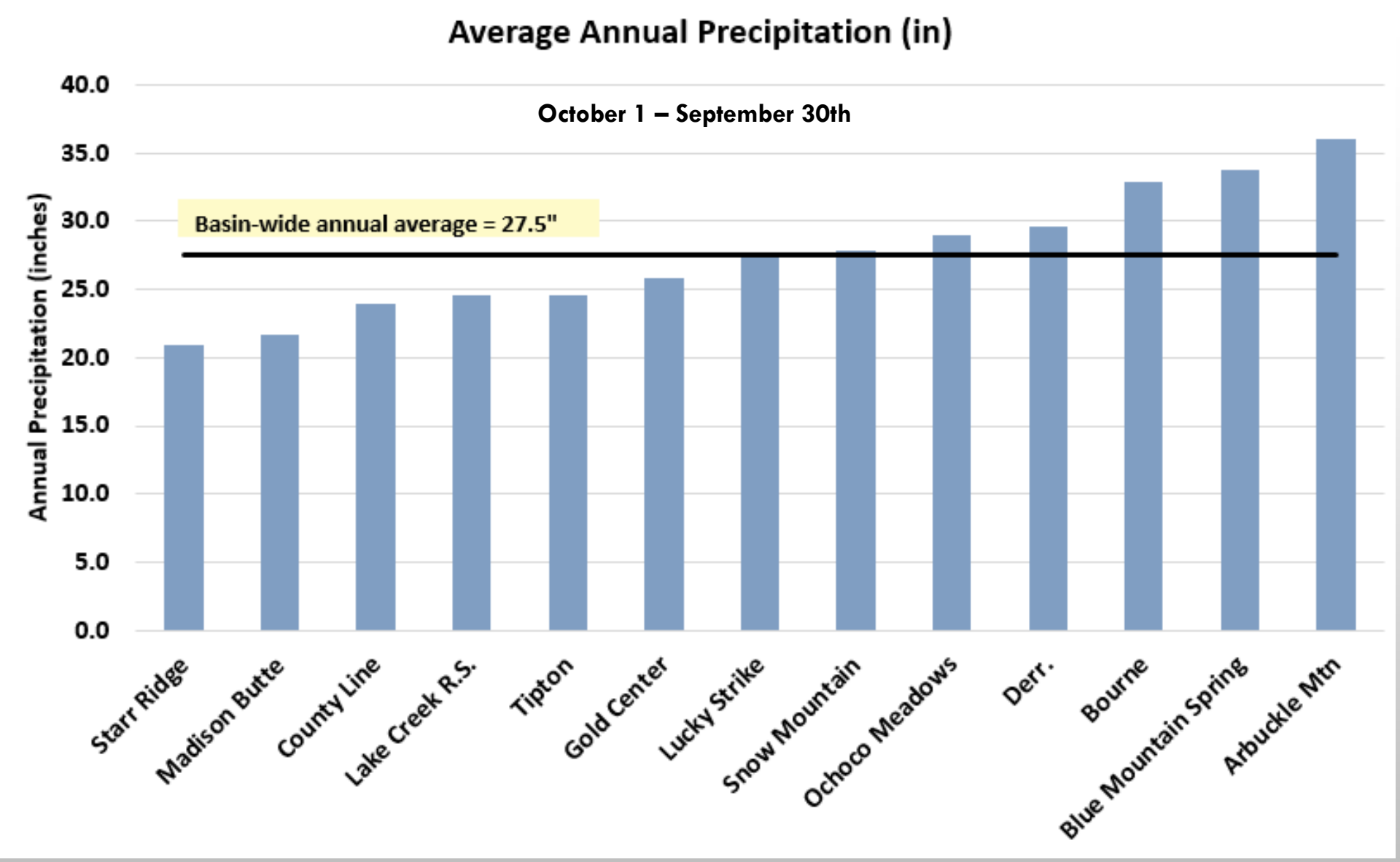


County Line
Lowest elevation: 4830 ft.

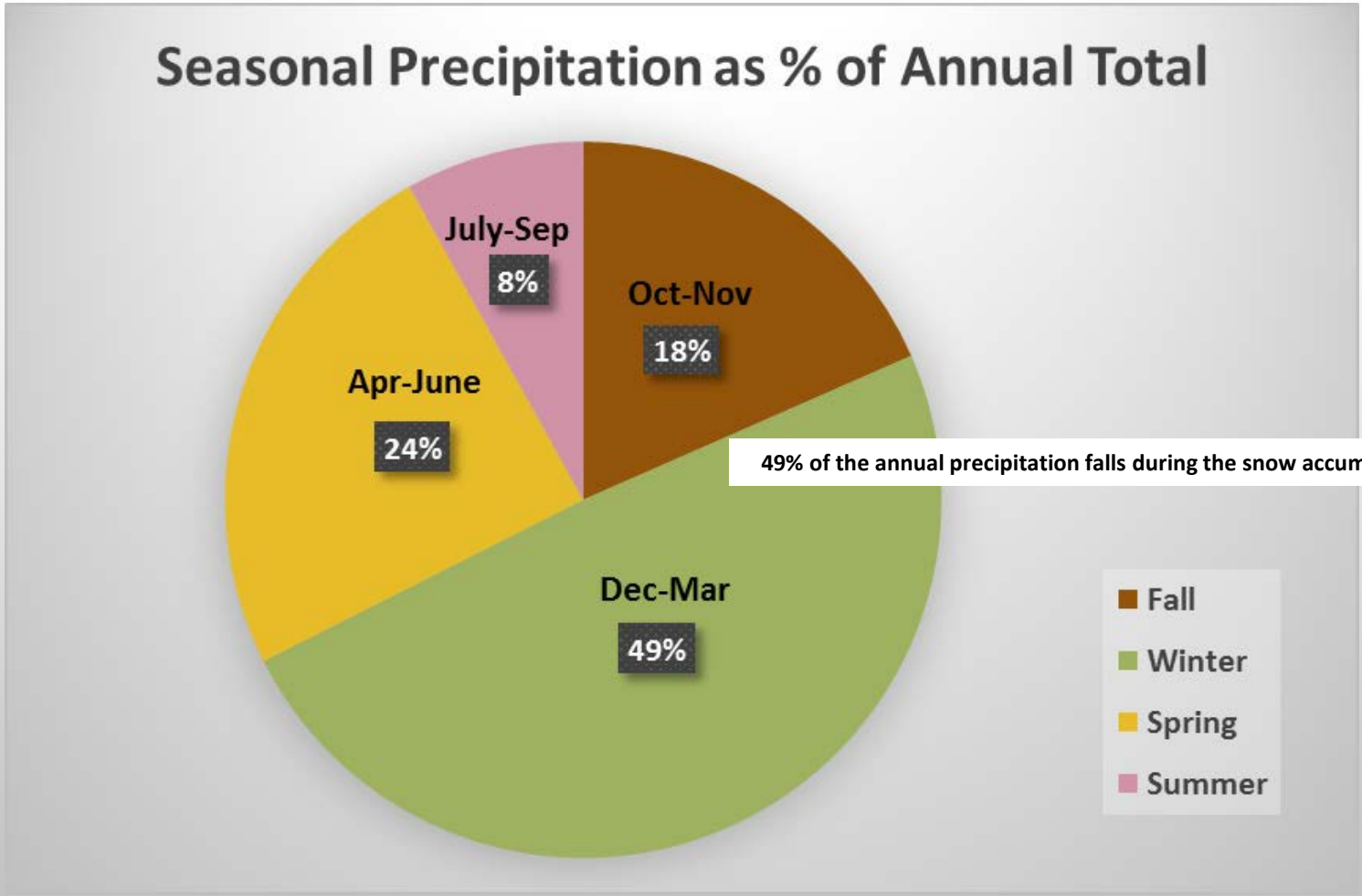
Snow Mountain
Highest elevation: 6230 ft.

JOHN DAY MOUNTAIN PRECIPITATION

**Annual Precipitation refers to "Water-Year Precipitation": October 1 through September 30th.*



49% of the annual precipitation falls from December through March



49% of the annual precipitation falls during the snow accumulation season.

24% (Madison Butte) to 58% (Arbuckle Mountain) of the annual precipitation falls as snow

STREAMFLOW

1 Acre-Foot (AF) =
the amount of water it would take to cover 1 acre with water, 1 foot deep

STREAMFLOW FORECAST POINTS

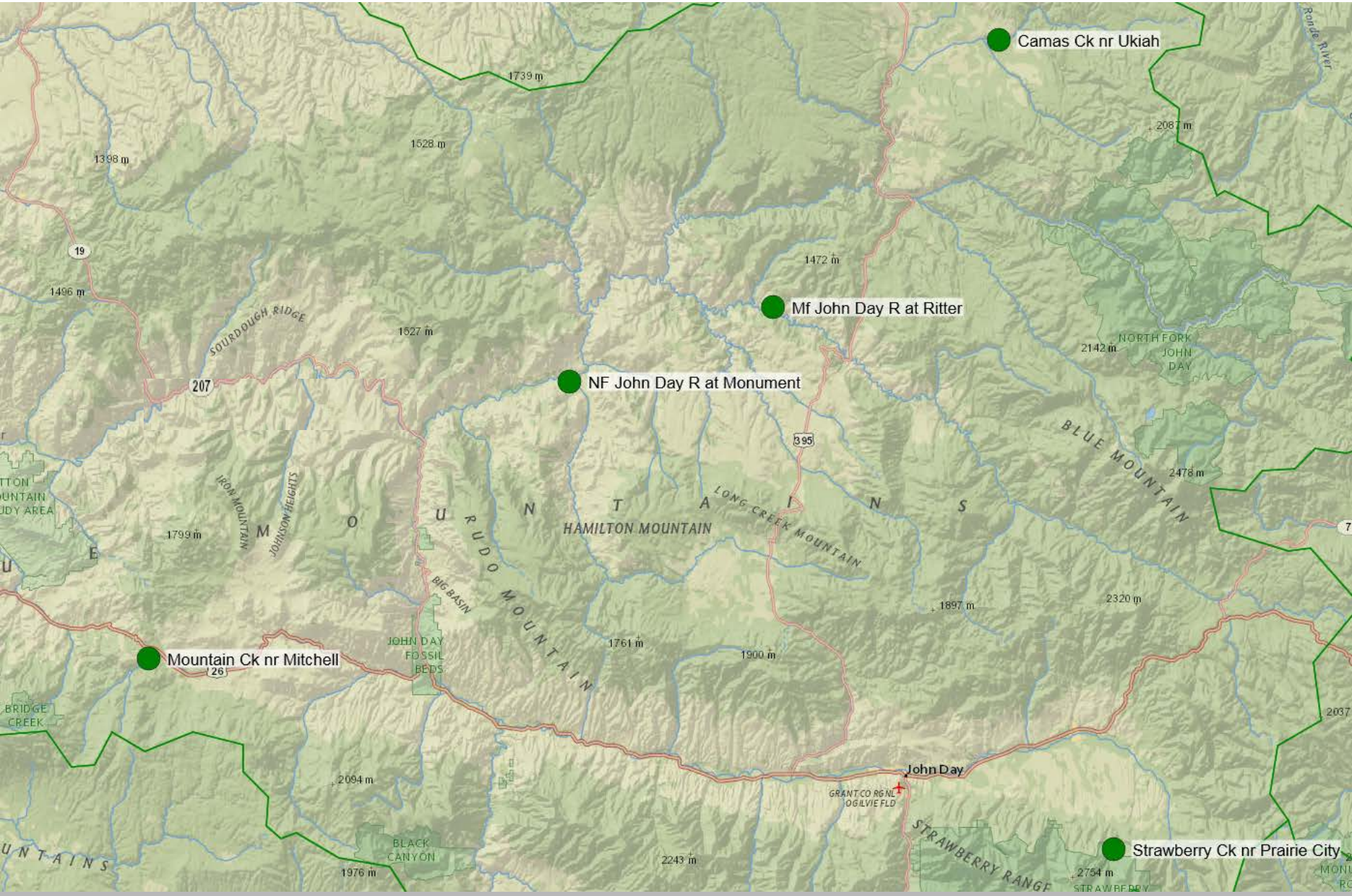
*5 NRCS Streamflow Forecast Points

*69% to 75% of the annual streamflow occurs during March-June

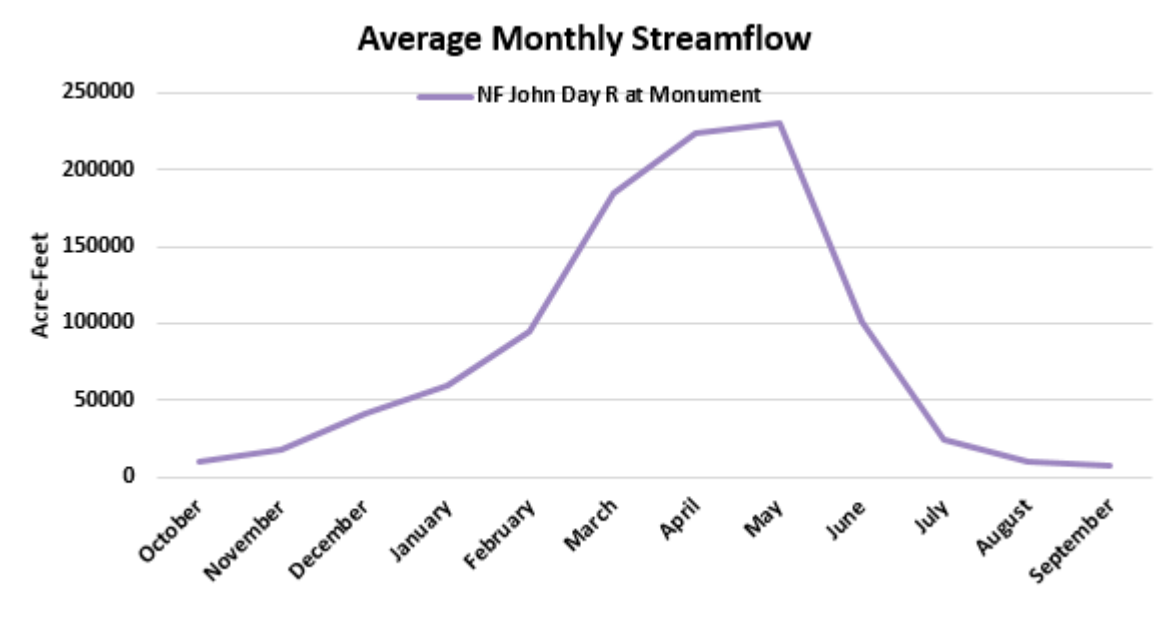
*There are no major reservoirs in the basin

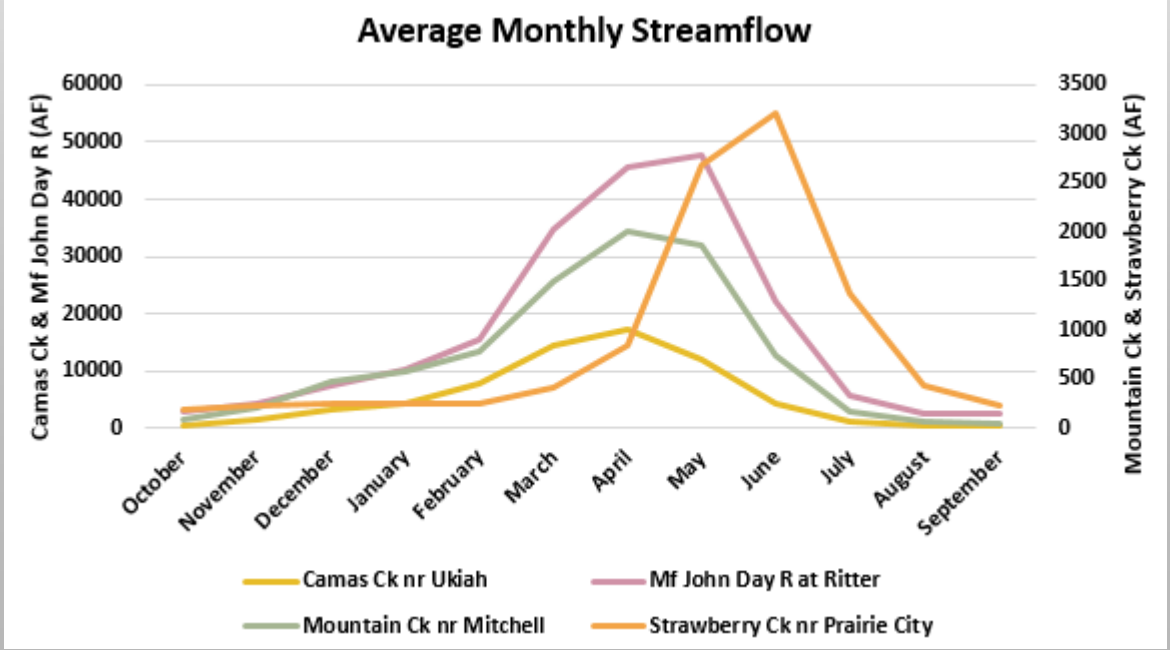
Average Annual Streamflow in Acre-Feet at John Day Rivers					
	Mountain Ck nr Mitchell	Strawberry Ck nr Prairie City	Camas Ck nr Ukiah	Mf John Day R at Ritter	NF John Day R at Monument
October	93	194	484	2962	10432
November	199	224	1384	4377	18107
December	481	253	3338	7443	40891
January	577	250	4064	10164	59545
February	770	244	7637	15283	95255
March	1493	416	14573	34590	184470
April	2013	839	17083	45713	224170
May	1867	2683	12011	47765	230904
June	739	3219	4080	22004	101596
July	161	1373	907	5503	24153
August	58	436	375	2537	9256
September	48	222	329	2309	7914
Annual Streamflow AF	8499	10353	66265	200650	1006693
March-June AF	6112	7157	47747	150072	741140
Mar-June % of Annual Flow	72%	69%	72%	75%	74%

STREAMFLOW FORECAST POINTS



AVERAGE STREAMFLOW VOLUMES





LAND INFORMATION

*About 50% of the land is public in the upper John Day basin

*There are many recreation opportunities including river recreation and hiking

*The major mountain ranges are the Blue Mountains, Elkhorn Mountains and the Strawberry Mountains

*Major land uses include: timber harvesting, grazing and fee-based hunting on private land