Notes-California's Water Resources

California has m	any resources, none more important than	The main
sources of Califo	ornia's freshwater supply are	, surface
water or runnoff	, and groundwater. Most of the state's fresh water l	pegins as snow in
	and Central California mountains. More than	% of all
precipitation in t	he state is lost to and	,
Only about	% of the precipitation stays on the surface or seeps	into the ground. This
water helps mee	t the states needs. The average precipitation Californ	rnia receives is
cm.(24 in.), altho	ough the amounts are not evenly distributed. North	ern California and the
mountain region	s receive the bulk of precipitation where the deserts	and
	California receive the least. Some of the pre	cipitation flows back
into rivers and la	akes which is California's drainage basins or	·
Another source	of surface water that originates out of the state form	s the border between
California and A	rizona. The	starts in the
Rocky Mountain	as and provides water for all of the southwestern sta	tes.
	is another important source of fresh wa	ater and comprises
about% o	f water used in California. In times of drought grou	indwater levels can be
depleted. Rocks	and soils that contain groundwater are called	
	is growing in importance when i	it comes to some
coastal cities. D	esalination is the removal of salt from ocean water	to obtain
water.		
California's Wa	ater Projects: Due to the unevenness California's J	population
distribution, the	fresh water needs of the state is distributed in an int	ricate network of
water	and distribution systems, or water	·
These projects as	re operated by local, state, and	agencies.
California's maj	or water projects consist of long aqueducts that carr	ry water from its
sources to where	e it is needed. In Southern California local water pro	ojects include the Los
Angeles and	River aqueducts. The L.A.	aqueduct has been
carrying water fi	com the Owen's River in the Sierras to Los Angeles	since 1913. Another
local water proje	ect is the Colorado River Aqueduct which brings wa	ater in to supply water
to the	Empire, San Diego and L.A.	Valley Lake
holds much of th	ne water before being sent of to Lakes Mathews and	Skinner for treatment
and distribution.	The State Water Project (SWP) is one of the nation	n's

water distribution systems. It uses the water sources in the Central Valley and distribute
it to the San Francisco Bay Area and Los Angeles. The SWP also operates
hydroelectric plants to generate The federal government
has also constructed major water projects in California. These projects include the All-
American Canal, the Canal, and the Central Valley Project
A lot of the water is used for irrigation of crops. Most of California's water supply is
used to grow crops. The rest is used in homes, businesses, and industries, or has been so
aside for or use% of
freshwater used in California each year goes to agriculture. Domestically we use about
90 gallons of water per day, by drinking, washing,, flushing, and
cleaning. Industrially water is used primarily as a coolant for products or machinery.
Recreationally some rivers and estuaries are set aside for activities like kayaking, rafting
and fishing as well as wetlands for animals.
Factors that affect our supply of water will be due to
California sits in a unique location in the middle latitudes at a boundary where storms
come in to the North and less in the South. California receives most of its annual
precipitation in short bursts of storms in the winter and spring months. As temperatures
climb that means less Climate change also causes seasons to become more
extreme. It is estimated that California will receive 10% less precipitation than historica
averages. When does California get most of its precipitation?
When does California use most of its water? Much of th
precipitation that California receives comes during atmosphericevents
1. Not all storms are atmospheric events
2. Moisture is common in the tropics but not the middle latitudes where California is and
AR's can be as much as 50% of our entire precipitation amount.
3. Unique conditions set up a conveyor belt of air with excessive amounts of
4. Climate change will likely affect atmospheric rivers causing California to be
some years and in others
What can we do to manage our water especially in times of drought?
1.
2.
3.

4.