

Water in all the wrong places

1. How much of America's fruits, nuts and vegetables are grown in California?
2. How much food (in dollar amount) does California export to Canada each year?
3. What is the main water source feeding into the Delta?
4. What are the functions of the Delta levees?
5. Why are these levees prone to failure?
6. How does being on the fault line affect the levees?
7. How will the global economy be affected from water shortage in California?
8. Agriculture uses 80% of fresh water, how much of that amount is ground water?
9. What is happening to the ground water supply in California?
10. How is NASA helping in the monitoring of ground water?
11. What are some methods farmers have used to conserve water?
12. What is the problem with desalination of ocean water?
13. How much water is recycled daily in Orange County using wastewater recycling treatment?
14. Name two of the three steps used to recycle wastewater.
15. How long does it take recycle wastewater?

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1. How much of America's fruits, nuts and vegetables are grown in California?
 - Half (50%)
2. How much food (in dollar amount) does California export to Canada each year?
 - 2 billion dollars
3. What is the main water source feeding into the Delta?
 - 65% comes from snowpack in the Sierra Nevada mountains
4. What are the functions of the Delta levees?
 - to prevent the flooding of sea water into farm lands
5. Why are these levees prone to failure?
 - They are old and built from rock and dirt
6. How does being on the fault line affect the levees?
 - Collapse due to earth quakes and all the fresh water can get contaminated with sea water
7. How will the global economy be affected from water shortage in California?
 - Less production of food, wine and microchips
8. Agriculture uses 80% of fresh water, how much of that amount is ground water?
 - 50%
9. What is happening to the ground water supply in California?
 - Water is being pumped up faster than it can be replenished naturally
10. How is NASA helping in the monitoring of ground water?
 - Using satellites to track and record the earth's gravitational pull
11. What are some methods farmers have used to conserve water?
 - Switching crops and computerizing drip irrigation
12. What is the problem with desalination of ocean water?
 - Large energy expense, brine by-product is dumped back into the ocean killing marine wildlife
13. How much water is recycled daily in Orange County using wastewater recycling treatment?
 - 70 millions gallon which can supply 600 thousand people
14. Name two of the three steps used to recycle wastewater.
 - Microfiltration, reverse osmosis and UV light treatment
15. How long does it take to recycle wastewater?
 - 45 minutes

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Water problems

<http://www.sierraclub.org/ca/water/index.asp>

<http://www.calwatercrisis.org/>

<http://www.calwatercrisis.org/problem.htm>

Levees

<http://architecture.about.com/od/damsresevoirs/g/levee.htm>

http://www.epa.gov/oem/docs/oil/fss/fss06/port_2.pdf

Ground water

<http://www.groundwater.org/kc/whatis.html>

<http://www.ec.gc.ca/eau-water/default.asp?lang=En&n=300688DC-1>

Water treatment

<http://www.science.uwaterloo.ca/~cchieh/cact/applychem/watertreatment.html>