State's water:

By DENNIS DARROW

The Pueblo Chieftain

olorado Springs spins a water fairy tale on its Web Pueblo staffs a freewater booth at the Colorado State Fair.

The state publishes every kind of water brochure and book imaginable, from children's coloring books to glossy magazines that look like the Sports Illustrated of the industry.

In short, everyone wants everyone else to understand Colorado water an industry so crowded by regulation and jargon that no one can seem to agree on the basics.

Yet, it isn't that hard.

Try your luck on this quiz:

Colorado's water comes from:

- a) Rain and snow.
- b) Rain dances.
- c) Reindeer.

Water rights signify:

- a) Priority use.
- b) A call for water sensitivity training.
 - c) The opposite of water wrongs.

3. By far the biggest water users

- a) Farms.
- b) Cities.
- c) Car washes.

Now for a bonus question:

4. Water isn't in short supply:

- b) False.

If you answered a) to all of the questions give yourself an A.

Now, that last answer might surprise you. But the truth is, water isn't in short supply.

Not in Colorado.

Not in the United States.

Nationwide, overall water use continues to decline, now down 10 percent

from when the trend was first spotted 1980, according to the U.S. Geological Survey, the federal agency tracks water usage.



The Arkansas OUR LIFEBLOOD

Cities' thirst for more

water has been more than offset by reduced water use on farms, where improved irrigation techniques are in place, the agency reports,

Among states, Colorado ranks fourth in the nation in water use behind California, Texas and Idaho if thermoelectric flows are exempted, according to the U.S. Geological Survey.

Colorado ranks high due to farm irrigation. Upward of 90 percent of the water used by Colorado goes for farm irrigation, the actual amount second only to California and Idaho.

Only about 5 percent of Colorado's water goes for residential use.

In the Arkansas River basin portion of the state, roughly 85 percent goes for farm irrigation while 7.5 percent goes for municipal supply, according to 1998 estimates by the state Division

comes from rain lightly populated \ small portion is div Front Range use.

In all, an estima feet of water flow toward the Pacific (lion flows toward t the state Division o

Most of the West for use in California.

As for water the Arkansas River corr about 24,000 acre fee water, Colorado Sp 80,000 acre feet and lion acre feet.

An estimated 15 basin's water comes

The farms on the water due to limited ra

The water concern rado stem largely from delivery.

Farmers, even thou of the cities, own man top water rights and them or sell them bidder.

Cities also own m rights but most remain upgrade their holding access to more water mountains or as a against long-term grow

As reflected in the report the city of Co sends to its citizens, idea of getting their from the mountain.

'Our customers rec their tap which has no ously treated, consume to the oceans," the city b

Cities also constan upstream storage sites. For instance, Color

wants Lake Pueblo to efforts to build a reservo Vista having stalled A option is expanding a reservoir.

And this is where water confusing.

Want to try for



er: A slippery subj

Total leaving west toward Pacific ocean; 9.1 million acrelect

comes from rain and snow on the lightly populated West Slope Only a small portion is diverted to threast for Front Range use.

In all, an estimated 9 million acrefeet of water flows from (olorado toward the Pacific Ocean and 3 million flows toward the Atlantic Ocean, the state Division of Water Resources

Most of the West Slope waer goes for use in California.

As for water that flows nto the Arkansas River corridor, Puello uses about 24,000 acre feet a year in treated water, Colorado Springs uses about 80,000 acre feet and farms use 2 million acre feet.

An estimated 15 percent of the basin's water comes from the Western Slope.

The farms on the plains need the water due to limited rainfall.

The water concerns faced by Colorado stem largely from ownership and delivery.

Farmers, even though downstream of the cities, own many of the state's top water rights and can hold onto them or sell them to the highest

Cities also own many of the top rights but most remain on the prowl to upgrade their holdings, either to get access to more water closer to the mountains or as a further hedge against long-term growth.

As reflected in the annual water report the city of Colorado Springs sends to its citizens, cities love the idea of getting their water straight from the mountain.

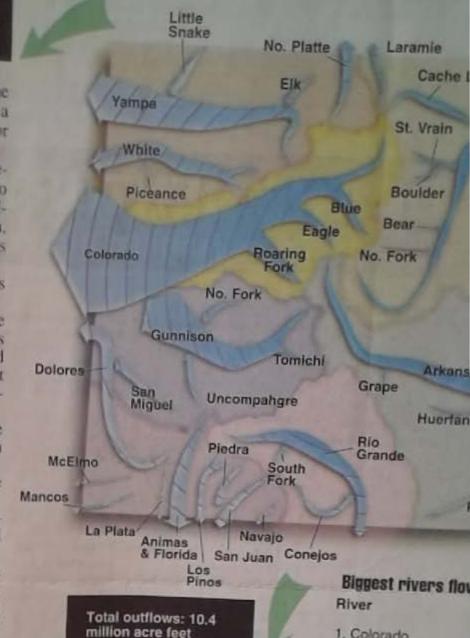
Our customers receive water at their tap which has not been previously treated, consumed or revyeled to the oceans," the city boasts.

Cities also constantly hunt for

upstream storage sites. For instance, Colorado Springs wants Lake Pueblo to expand its efforts to build a reservoir near Buena Vista having stalled. A less attractive option is expanding a downstream reservoir

And this is where water start to get confusing.

Want to try for an advanced



5) The city of Pueblo's water is stored at Lake Pueblo:

- a) True.
- b) False.

The answer. False.

Lake Pueblo was built to help Southern Colorado farmers and cities with their storage needs but thus far the city of Pueblo has not needed to use any of the reservoir storage for day-to-day operations.

The city draws its water directly from the Arkansas River, not the reservoir. As for water supply, the city controls enough water to serve a city three times its current size.

To meet its utility-customer's water storage needs, Pueblo maintains separate storage space at Clear Creek, Turquoise, Twin Lakes and Ivanhoe reservoirs.

The city also recently purchased more mountain land for a possible new reservoir. Meanwhile, just to be safe, the city has put in a bid for additional storage at an expanded Lake Pueblo

- Colorado
- Yampa
- 3. San Juan
- 4. Animas-Florida
- White
- 6. Dolores
- South Platte
- Rio Grande
- 9. North Platte
- 10. Los Pinos
- 11. Arkansas

Source: Colorado Division of



A transmountain water divers water from streams and rivers of the Continental Divide and Divide via tunnels or ditches to

Total leaving east toward Atlantic Ocean: Little 1.3 million acre feet Snake Laramie No. Platte Cache La Poudre Elk Yampa St. Vrain South Platte White North Fork Republican Boulder Piceance Blue Bear Eagle No. Fork Roaring Colorado South Fork Fork Republican No. Fork Gunnison Tomichi Arkansas Dolores Grape Uncompangre Miguel Huerlano Apishapa Rio Piedra Grande McElmo South Fork Mancos Purgatoire La Plata Navajo San Juan Conejos & Florida Los Biggest rivers flowing out of Colorado:

Total outflows: 10.4 million acre feet

The city of Pueblo's water is stored at Lake Pueblo:

a) True.

IS.

ie

at

58

125

Its

ma

IVE

am

get

ree?

b) False.

The answer: False.

Lake Pueblo was built to help Southern Colorado farmers and cities with their storage needs but thus far the city of Pueblo has not needed to use any of the reservoir storage for day-to-day operations.

The city draws its water directly from the Arkansas River, not the reservoir. As for water supply, the city controls enough water to serve a city three times its current size.

To meet its utility-customer's water storage needs, Pueblo maintains separate storage space at Clear Creek, Turquoise, Twin Lakes and Ivanhoe reservoirs.

The city also recently purchased more mountain land for a possible new reservoir. Meanwhile, just to be safe, the city has put in a bid for additional storage at an expanded Lake Pueblo.

River Average annual streamflow at border 1. Colorado 4.5 million acre feet 2. Yampa 1.6 million acre feet 3. San Juan 769,700 acre feet 4. Animas-Florida 712,600 acre feet 5. White 595,100 acre feet 568,100 acre feet 387,100 acre feet 6. Dolores South Platte 8. Rio Grande 325,000 acre feet 9. North Platte 313,600 acre feet 10. Los Pinos 175,700 acre feet 11. Arkansas 142,200 acre feet

Source: Colorado Division of Water Resources

TRANSMOUNTAIN DIVERSION



A transmountain water diversion involves collecting water from streams and rivers on the Western Slope of the Continental Divide and moving it across the Divide via tunnels or ditches to the Eastern Slope.

