

# Pollution Is Top Problem In U.S. Water Shortage

**By BE MPRICE**  
WASHINGTON (AP)—Water is inescapably, presumably there is exactly as much water on earth today as at the time of creation.

It is not the total amount of water that concerns mankind, however: It is the quality of the water and its availability for human use.

And herein lies the crux of what is now recognized as the U.S. water problem:

—The available supply of good water is so limited that within 35 years demand will outstrip supply by 350,000,000 gallons daily.

—The water in the 90 major U.S. river basins is being polluted by municipal, industrial and agricultural wastes.

The work of improving the water quality of just 17 of these streams has cost nearly \$3,100,000,000 since the program began in 1957.

The fact that American waters are being polluted is, in itself, probably no surprise to anyone, especially anyone who has felt the urge to swim in the waters of Milwaukee, Cleveland or New York City.

But pollution is a variable, depending for definition upon the intended use of the water.

For domestic use water must be clean, free of disease organisms, bad waste and odor. It must not have a dissolved mineral content higher than 200 parts in 1,000,000, by U.S. Public Health Service standards.

Water for agriculture is judged on mineral content, particularly its sodium level. **MUST HAVE OXYGEN**

Water for fish propagation must be relatively free of industrial and municipal wastes and be able to sustain a flora for the small organisms which serve as fish foods. It also must have a minimum dissolved oxygen content of at least four percent.

## ON THE AIR

### THURSDAY PROGRAMS

- CFDY-TV**
- 3:00 p.m.—Musical
  - 3:30 p.m.—Moment of Truth
  - 4:00 p.m.—Vacation Time
  - 5:00 p.m.—Ivanhoe
  - 5:30 p.m.—20/20
  - 6:00 p.m.—Documentary Showcase
  - 6:30 p.m.—Gazette
  - 7:01 p.m.—CFDY TV News
  - 7:15 p.m.—Keyboard Melodies
  - 7:30 p.m.—My Favorite Matril
  - 8:00 p.m.—Shannon
  - 8:30 p.m.—Petitcoat Junction
  - 9:00 p.m.—Gomer Pyle
  - 9:30 p.m.—Portrait
  - 10:00 p.m.—Alfred Hitchcock Hour
  - 11:00 p.m.—CBC TV News
  - 12:00 a.m.—Local Weather and Sports Scores
  - 12:14 a.m.—Sign Off

### CKCW-TV

- 1:43 p.m.—Station Sign On
- 1:45 p.m.—Visit to England
- 2:15 p.m.—News, Weather & Sports
- 2:30 p.m.—Payton Place
- 3:00 p.m.—Gale Storm
- 3:30 p.m.—Moment of Truth
- 4:00 p.m.—Vacation Time
- 5:00 p.m.—Woody Woodpecker
- 5:30 p.m.—20/20
- 6:00 p.m.—Jungle Jim
- 6:30 p.m.—News, Weather & Sports
- 7:00 p.m.—Lionel Playhouse
- 7:30 p.m.—Defenders
- 8:30 p.m.—My Favorite Martian
- 9:00 p.m.—Gomer Pyle
- 9:30 p.m.—Portrait
- 10:00 p.m.—The Defenders
- 11:30 p.m.—The Saint
- 12:00 p.m.—CIBC TV News
- 12:15 a.m.—Viewpoint
- 12:20 a.m.—Lionel Television News
- 12:25 a.m.—Station Sign Off

### CFDY RADIO

- THURSDAY**
- 6:30—News and Weather
  - 6:35—Morning Roundup
  - 6:45—Island W. and Mar. Temp.
  - 6:46—Morning Roundup
  - 6:55—News and Weather
  - 7:00—Hebrew Christian Hour
  - 7:15—Morning Roundup
  - 7:30—News and Weather
  - 7:35—Farm Report
  - 7:41—Morning Roundup
  - 7:45—Island W. and Mar. Temp.
  - 7:46—Sports Capsule and Scoreboard
  - 8:00—News
  - 8:11—Weather
  - 8:15—Morning Roundup
  - 8:16—Weather
  - 8:50—Atlantic News Roundup
  - 8:58—Thought For Today
  - 9:00—CBC National News—CBC
  - 9:11—Preview Commentary—CBC
  - 9:16—Notes and Music
  - 10:00—Notes and Music
  - 10:05—Notes and Music
  - 10:40—Mr. Co-op Program
  - 10:50—Notes and Music
  - 11:00—Notes and Music
  - 11:05—Notes and Views on Groceries
  - 11:20—Notes and Music
  - 11:30—Montage and Variations
  - 11:40—Notes and Music
  - 11:45—Bulletin Board
  - 11:50—Notes and Music
  - 11:55—Atlantic News Roundup
  - 12:00—Weather
  - 12:05—Town and Country Time
  - 12:30—News and Weather
  - 12:45—Town and Country Time
  - 1:00—News and Weather
  - 1:05—Town and Country Time
  - 1:15—What's On Tapp—CBC
  - 1:45—Town and Country Time
  - 2:00—News and Weather
  - 2:05—Mostly Music
  - 3:00—News, Headlines and Weather
  - 3:03—Trans-Canada Matinee—CBC
  - 3:30—Tops in Pops
  - 4:00—News Headlines and Weather
  - 4:03—Canadian Roundup—CBC
  - 4:10—Tops in Pops
  - 5:00—News and Weather
  - 5:05—The Outposts
  - 5:25—20—Marine Weather
  - 5:28—The Outposts
  - 6:00—News and Weather
  - 6:15—On Parliament Hill—CBC
  - 6:20—Today's Editorial—CBC
  - 6:25—Sports Parade
  - 6:30—Business Barometer—CBC
  - 6:35—Tonight's Music
  - 6:35—Tonight's Music
  - 7:00—Back To The Bible
  - 7:30—News and Weather
  - 7:45—Program Schedule
  - 7:46—Red Cross Program
  - 8:00—Assignment—CBC
  - 8:30—Tonight's Music
  - 8:58—News Headlines and Weather
  - 9:00—Citizens' Forum—CBC
  - 9:30—Winnipeg Pops Orchestra—CBC

## CONTRACT BRIDGE

By B. JAY BECKER

West dealer.  
Neither side vulnerable.

**NORTH**  
♦ A 10  
♥ A J 9 8 6 5  
♦ K Q 9 8  
♠ 10

**WEST**  
♦ 5 4  
♥ 8 7 2  
♦ A K J 7 6 5 3  
♠ A J 10 5

**EAST**  
♦ K Q J 7 2  
♥ 4 3 2  
♦ 6 4  
♠ Q 9 8

**SOUTH**  
♦ 8 6 3  
♥ K Q 10  
♦ A J 10 5  
♠ A 2

The bidding:  
West North East South  
Pass 1♥ Pass 2♦  
3♦ 4♥ Pass 4♦  
Pass 4NT Pass 5♦  
Pass 6♥

## AT LAST WRIGLEY'S SPEARMINT IS IN THE MODERN dime PACK



Opening lead—King of clubs. This hand offers a principle of bidding which is of tremendous importance at times, but which is nevertheless misapplied by many experienced players.

The deal occurred in a national pair championship. As usual, the results achieved at the various tables differed widely.

the nation can ever hope to achieve as a result of engineering works is about 65,000,000 gallons a day."

At the present rate of growth, the U.S. will need more than 1,000,000,000 gallons daily by the year 2,000. This means the committee said that the U.S. will have to use and re-use its available waters, hence the concern with pollution.

Any water, no matter how polluted, can be made re-usable—at a price. When people talk of converting sea water to fresh water, or of re-using waste waters, they are talking engineering primarily.

Water re-used means scientists must learn a great deal more about water than they now know.

Only \$4,200,000 is spent annually on water research, but the U.S. is spending about 3,600 times that much on defence and space research.

## Birth Control Pill Safety To Be Probed

LONDON (CP)—A British government agency has decided to speed up its investigation of possible links between contraceptive pills and thrombosis following the death of a 22-year-old Nottingham housewife who had used the pill for six months.

A pathologist has stated the relationship is "just too much to be a coincidence."

About 500,000 British women are reported to be using the pills regularly and many are having second thoughts about continuing the dosage. One published estimate is that the risk of death from the pill is about one in 100,000 cases. The risk of some form of blood-clotting is about one in 10,000.

The government's Dunlop committee on drug safety originally had estimated it would take two or three years to complete its investigation on the pill's safety.

## MANY GO TO JAIL

A total of 2,531 citizens of East Germany have been punished, five of them with death, for escape attempts since the Berlin Wall was put up.

## ESTIMATE COST

Some 6,140 municipalities have under way waste treatment projects costing \$3,100,000,000.

The ultimate bill for clean U.S. water may run as high as \$40,000,000,000.

The public health service has \$100,000,000 a year for loans to communities for waste treatment plant construction. Loans are limited to 1 per cent of the total estimated cost up to a maximum cost of \$600,000.

For all practical purposes, this excludes the larger U.S. cities. Atlanta, Ga., for example, estimates that to clean up its wastes will cost close to \$70,000,000.

But industry is the big headache. The service says that until it knows what industry is putting into the waters, it has no idea how to go about cleaning them up, and industry is hesitant to tell.

Richard S. Greene, chief of the service's basic data branch, says that with some exceptions industrialists have refused to provide information on the quality and quantity of liquid wastes.

"There is one thing you must keep in mind," Greene said. "It is understandable from the management viewpoint: No industry makes a profit from treating wastes unless it figures the cost of law suits is going to be higher than the cost of installing treatment facilities."

But water pollution is not the only problem. In the arid and semi-arid regions of the west, water is being pumped out over thousands of years being being pumped out much faster than it is being replaced, raising the spectre of great areas returning to desert.

Deer Valley, an 80-square-mile area north of Phoenix, Ariz., already has returned to desert, its ground waters exhausted.

The pumping of ground waters has caused parts of the Imperial Valley in California to subside. On Long Island, N.Y., salt water is intruding into the drained reservoirs.

The U.S. now uses about 360,000,000 gallons of water a day. The Senate public works sub-committee estimates it will need 515,000,000 gallons within 15 years and "the most

## RIPLEY'S BELIEVE IT OR NOT



## DAILY CROSSWORD

**ACROSS**

- Exclamation
- Sacred bull
- Part of fishline
- Vaulted roofs
- Lizard
- Profundness
- Behold
- Tree
- Greek letter
- Quadrant
- Mangled
- Platform
- Fissile rocks
- Customary procedure
- Narrate
- Snare
- Native of Asia
- Dodecanese island
- Shinto temples
- DOWN
- Long-haired cat
- Meadow
- Crimean river
- Cut
- Sum up
- American poet and author
- Inciter
- Couch
- Waldorf or Caesar
- Herringlike fish
- Hurries
- What rumors do
- Greek letter
- German philosopher
- Earth
- Sho-shonean
- Bake
- Heroic
- Passage
- Ways
- Tween seats
- Supports
- Hamlets
- Persian potentate
- Epoch
- Household god
- Money player
44. Epoch

**Yesterday's Answer**

- Household god
- Money player
44. Epoch

## DAILY CRYPTOQUOTE

Here's how to work it:  
**AXYDLBAAXE**  
**LONGFELLOW**

One letter simply stands for another. In this sample A is used for the three L's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each day the code letters are different.

**A Cryptogram Quotation**  
H S O F A Z D L S S T M O T X D B T W V Z K V L I K E O B K Q H V B F D F A E D F O D F H K E T H O B . E D Z R O

Yesterday's Cryptoquote: **LAWYERS ARE THE ONLY PERSONS IN WHOM IGNORANCE OF THE LAW IS NOT PUNISHED.—BENTHAM**

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## OUR BOARDING HOUSE MAJOR HOOPLE

MAYBE THIS'LL GET YOU ELECTED POET LAUREATE, MAJOR, BUT IT'S NOT HELP'N' GETS PRECIOUS MY SCIATICA!

ESAD! I WAS HOPING YOU BIG WALRUS TO GET SOME WORK OUT OF YOU WHEN I ORDERED THAT TIN LONG-FELLOW MOVED, BUT IT'S LIKE WISHING FOR A 40-YEAR-OLD RICH UNCLE WHO LIKES MOUNTAIN CLIMBING!

AT LEAST SHE CAN USE HER WASHING MACHINE.

**GRANDMA**

WHOSE PICTURE WAS PAINTING, GRANDMA?

GOODNESS... YOU CAN'T TELL?

IT'S A SELF-PORTRAIT!

OF COURSE, I MADE A FEW MINOR CHANGES FROM WHAT I SAW IN THE MIRROR!

**MICKY MOUSE**

DEATH IT'S TOO BIG TO ENTER IN THE KITE CONTEST!

NEVER MIND, MORTY...

I'LL BUY IT!

LATER

WHILE PHIL INVESTIGATES A BANK HOLDUP WORD OF A SPORTING-GOODS STORE ROBBERY IS FLASHED...

THAT'S RIGHT, PHIL—AT FINCHES—A SHOTGUN, A PISTOL, AND SEVERAL ROUNDS OF AMMUNITION!

SOUNDS LIKE A TIE-IN!

SAME WEAPONS USED IN THIS BANK JOB, PHIL!

WE'VE GOTTEN ALL WE CAN FROM HERE, TOM—

MAYBE OUR MAN LEFT A CLUE AT THAT STORE!

**ETTA KETT**

COACH WANTS ETTA TO BE ON THE GIRLS' TRACK TEAM!

TRACK WHAT?—BOYS?

I'M GOING TO RUN AROUND THE BLOCK A FEW TIMES, MOM.

IF SHE WANTS TO IMPROVE HER WIND—

WHY DOESN'T SHE JUST TALK AN HOUR LONGER ON THE PHONE?

**SECRET AGENT X-9**

I CUT MY FINGER, DOCTOR! DO YOU HAVE ANY IODINE?

WELL, THEN... DO YOU HAVE A BANSAPE?

I'M ALL OUT!

REALLY... YOU SHOULD GET SOME.

YOU NEVER KNOW WHEN YOU MIGHT NEED THEM.

**NUBBIN**

THIS MAY BE MY CHANCE TO LOSE THEM—IF ONLY THEY TAKE THE LEFT FORK!

RIGHT OR LEFT?

AND DOWN THE RIGHT SHAFT, FORK!

**HENRY**

WELL? I'M GETTIN' TIRED OF WAITIN'!

GO AHEAD, KEN!

SHOW HIM YOU'RE NOT AFRAID! PLEASE!

YOU'LL HAVE TO FIGHT BACK SOME-TIME, KEN!

**THE LONE RANGER**

I HEAR YOU WERE KEPT IN AFTER SCHOOL, TERRY BURR—

YES I WAS.

WHAT DID YOU DO THAT MADE YOUR TEACHER KEEP YOU LATE?

I DIDN'T DO ANYTHING.

OH, COME NOW... YOU MUST HAVE DONE SOMETHING...

NO, I DIDN'T.

BUT I'M GOING TO DO MY HOMEWORK TONIGHT SO I WON'T BE KEPT IN TOMORROW!

**JOE PALOOKA**

HOW THAT WE IS IN 'HIS ROOM HOW'LL YOU TAKE 'HIS' PLACE?

HE'LL BE ALONG ANY MINUTE!!

MY PLAN IS FOOLPROOF! FIRST, I REMOVE THIS FUSE—

YOU BRAIN 'HIM' AS HE ENTERS, AND RUSH HIM OUT!! WHEN THE LIGHTS GO ON—TIL BE HIM!!

HERE 'HE' COMES!!

**MUGGS & SKEETER**

AT LEAST SHE CAN USE HER WASHING MACHINE.

**LIL ABNER**

AT LEAST SHE CAN USE HER WASHING MACHINE.