

Subscribe to our weekly California email newsletter at CapitalPress.com/newsletters

California

Pumping causing Calif. land to sink at historic rate, state says

By **TIM HEARDEN**
Capital Press

SACRAMENTO — State water experts say all the drought-related groundwater pumping in California's Central Valley is causing land to sink at historic rates, and they're taking steps to alleviate the problem.

The state Department of Water Resources is setting aside \$10 million from the \$7.5 billion water bond voters approved last fall to help communities with depleted aquifers enact pumping ordinances and conservation plans.

Further, Gov. Jerry Brown's Drought Task Force plans to work with affected communities to develop near-term and long-term recommendations to reduce the rate of sinkage and address risks to structures such as bridges, state officials said.

The moves come as a new National Aeronautics and Space Administration study showed land in the valley is sinking by nearly 2 inches per month in some places. A "great majority" of the subsidence is being caused by agriculture, DWR director Mark Cowin told reporters in a conference call Aug. 19.

"Generally speaking, it's an effect that occurs when pumping takes place that de-waters the fine grain layers in an aquifer, causing them to compact,"

Online

NASA subsidence findings:
<http://water.ca.gov/waterconditions/index.cfm>

Cowin explained. "The effect is often imperceptible because it occurs over large segments of land, but it can cause damage (to infrastructure).

"Subsidence isn't new," he said. "It has occurred in the Central Valley for many, many decades, but it tends to occur more frequently during periods of drought" to make up for shortages in surface water, he added.

Some counties are already taking steps to curb pumping from stressed groundwater basins. Merced County placed strict regulations on new wells and groundwater transfers earlier this year, and Glenn County supervisors voted 4-0 on Aug. 18 to place a six-month moratorium on approving new wells.

With tighter state regulations coming, "I do think it's time that we sort of take a step back and come up with better ways to release well permits," Glenn County Supervisor Leigh McDaniel told his colleagues. "I'm not saying the moratorium is to completely shut down working on wells for eternity, but what I am saying is we need to make a quick pause ... to make sure the

same resource and the same lifestyle are here for the generations to come."

Though subsidence isn't new, land is sinking faster in some areas than ever before as the drought lingers for a fourth year, according to the NASA study. The space agency gathered data by comparing aerial photos and satellite images of the Earth's surface over time.

In Corcoran, Calif., for instance, land sank 13 inches in eight months, or about 1.6 inches per month, the study found. An area of the Sacramento Valley was sinking about a half-inch per month, faster than before, according to NASA's measurements.

The sinking land has already destroyed many well casings in the San Joaquin Valley and could cause breakages in aqueducts, bridges, roads and flood control structures while permanently reducing the aquifer's water storage capacity, officials said.

The study lends a sense of urgency as California lawmakers last year passed a package of laws requiring local water agencies to formulate groundwater management plans by 2020 or 2022, depending on the region.

Possible actions outlined in a strategic plan put out for review earlier this year include developing comprehensive water

budgets for groundwater basins, prioritizing basins, developing best-management practices for groundwater use, developing a groundwater information system and establishing well standards.

Cowin said the state won't seek to implement the new laws more quickly because of the study.

"As you're aware, a lot of negotiations and thought went into developing the terms of the Sustainable Groundwater Management Act, and the fact of the matter is that it will take time for local governments to develop the relationships and programs needed to implement the act," he told reporters. "That's just a fact of life ... I do think there are near-term measures we can take to limit pumping subsidence."

Both the DWR and NASA pledge to keep studying the subsidence issue. The DWR will evaluate subsidence along the California Aqueduct and the condition of State Water Project facilities and develop a capital improvement program to repair damage from subsidence, according to a news release.

NASA will continue its monitoring using data from the European Space Agency's recently launched Sentinel-1 mission to cover a broader area and identify more vulnerable locations, the release explained.



Tim Hearden/Capital Press

Shasta County Assessor-Recorder Leslie Morgan, left, and deputy assessor-recorder David Baker point out county records of water rights during a University of California Cooperative Extension-sponsored workshop Aug. 20 at the Shasta Livestock Auction Yard in Cottonwood, Calif.

Attorneys urge Calif. landowners to document their water rights

By **TIM HEARDEN**
Capital Press

COTTONWOOD, Calif. — Water attorneys and experts implored landowners to keep detailed records of their water rights handy in case they're challenged or curtailed by state officials.

They told about 150 ranchers and other landowners attending a workshop Aug. 20 to be prepared to go up the chain of command of the State Water Resources Control Board to present their case.

"The water board has taken it on itself to do the math and find out how much water is available

in each stream," said Jack Rice, a California Farm Bureau Federation attorney specializing in water issues.

"The key message is you'd better know your water rights," Rice said. "There's going to be a lot more pressure. ... We can't defend ourselves if we're uninformed."

Area ranchers packed the sale arena at the Shasta Livestock Auction Yard in Cottonwood, where experts during the University of California Cooperative Extension-sponsored workshop explained the different types of water rights and how landowners could document them.

Despite ruling, Farm Bureau still seeking to challenge permit requirements

By **TIM HEARDEN**
Capital Press

COTTONWOOD, Calif. — A local Farm Bureau office chose not to appeal a court decision requiring permits for simple water diversions because a broader decision by the state Supreme Court would further hamper growers, an organiza-

tion official says.

But the California Farm Bureau Federation is still looking for opportunities to challenge the state Department of Fish and Wildlife's new policy of requiring streambed alteration permits on streams that are habitat for imperiled fish, attorney Jack Rice said.

"We really need to think stra-

telegically about what we want to do," Rice said, adding that a legislative approach is also possible next year.

The policy "is an issue we're going to be facing for a long time," he told ranchers who packed the sale arena at the Shasta Livestock Auction Yard for a water rights workshop on Aug. 20.

The case arose after Fish and Wildlife began requiring special permits for irrigation with water from the Shasta and Scott rivers in Siskiyou County, which are key spawning grounds for endangered coho salmon.

The Siskiyou County Farm Bureau filed suit in 2012 to block the DFW from enforce-

ing what ranchers have called its "new" interpretation of Fish and Game Code Section 1602, which deals with water diversions from rivers and streams.

The suit asserted that farmers holding diversion rights on the Shasta and Scott rivers needed declaratory relief or they could face misdemeanor charges and civil and criminal penalties of

more than \$25,000 per violation.

Siskiyou County Superior Court Judge Karen Dixon ruled in late 2012 that the state overstepped its authority, but the Third District Court of Appeals overturned that decision in June, ruling that diversions are subject to streambed alteration permit provisions in the Fish and Game Code.

LOCK IN YOUR LOW RATE

0% for 3 years **-OR-** 0.9% for 5 years!

| | |
|---|--|
| <div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 5px; text-align: center;">TRACTORS</div> <p>JD 9620, 4435 hrs, 4WD, PS trans, 800/70R-38 duals, 4 remotes, fresh engine.....\$180,000 Moscow, #30510</p> <p>Case IH STX325, 9642 hrs, 325hp, 4WD, PS trans, 3pt, 1000 PTO, 520/85R-46 duals.....\$65,000 McMinnville #97509</p> <p>Case IH STX325, 5813 hrs 325hp, 4WD, PS trans, 3pt, 4 remotes, 14.9R-46 duals.....\$96,000 Tekoa, #107500</p> <p>Case IH STX450, 7627 hrs, 450hp, 4WD, PS trans, front & rear weights, 800/70R-38 duals.\$99,500 Tekoa, #100728</p> <p>NH 9680, 7512 hrs, 4WD, PS trans, 710/70R-38 duals.....\$40,000 McMinnville #102884</p> <p>JD 9560RT, 88 hrs, 36" Tracks, 5 Remotes, 1000 PTO, HID Lights.....\$425,000 Fall River Mills, #902075</p> <p>JD 8285R, 820 hrs, ILS Axle, PS Trans, 4 Remotes, 800/70-38 Duals.....\$234,300 \$221,000 McMinnville, #72817</p> <p>JD 4120, 2201 hrs, MFWD, ROPS, Reverser Trans.....\$18,000 \$12,000 Hillsboro, #810273</p> <p>JD 5115M, 109 hrs, Cab, MFWD, #310 Loader w/Spear.....SOLD</p> <p>NH TN95FA, 6584 hrs, Cab, MFWD, narrow, Super Steer, 2 rear remotes.....\$18,500 \$13,500 Salem, #89699</p> <p>Kubota M9960, 150 hrs, Open Station, ROPS, MFWD, LA1353 Loader.....\$45,900 Roseburg #54397</p> <p>JD 9630, 2138 hrs, 4WD, PS trans, Auto Track ready, 800/70R-38 duals, HID lights.....\$209,900 \$204,000 Tekoa #18545</p> <p>JD 9320, 5247 hrs, 4WD, PS trans, 710/70R-38 duals, 4 remotes, Bareback.....\$125,000 Colfax #31662</p> <p>JD 8260R, 993 hrs, MFWD, PS Trans, 4 Remotes, 620/70-46 Duals.....\$189,000 \$180,000 Donald, #70811</p> <p>JD 9300, 7119 hrs., 4WD, PS Trans., 3pt, 1000 PTO, 620/42 Duals, 5 Remotes.....\$109,900, Salem, #30202</p> <p>JD 5075E, 34 hrs, Open Station, MFWD, R1 Tires, 540 PTO, Joystick.....\$32,500 Hillsboro #10185</p> <p>JD 7280R, 256 hrs, Cab, IVT Trans, TLS Front Axle, Set up for loader.....\$230,500 Madras #13029</p> <p>JD 8770, 14,624 hrs, 4WD, 3 remotes, bare back, 24 spd. Power Quad Trans, duals.....\$35,000 Tekoa #3214</p> <p>JD 9200, 7379 hrs, 4WD, 4 Remotes, 80-42 Duals, Quad Range Trans.....\$79,900 Tekoa #30476</p> <p>JD 8770, 7675 hrs, 4WD, Quad Range Trans, 20.8-42 Duals, 3 Remotes.....\$53,900 Walla Walla #4681</p> <p>JD 9400, 7622 hrs., 4WD, PS Trans., 1000 PTO, 710-42 Duals, 4 Remotes.....\$105,900, Tangent, #41372</p> <p>NH TN95FA, 5553 hrs, Cab, MFWD, narrow, Super Steer, 2 remotes.....\$12,900 Salem #39208</p> <p>MF 180, 6436 hrs., 2WD, Multi-Power, 540 PTO, 2 Remotes, 15.5-38 Rear Tires.....\$6,500, Donald, #37630</p> <p>JD 9560R, 222 hrs, 4WD, Dual 800/70R-38, PS Trans, Auto Track Ready.....\$374,000 Walla Walla #7998</p> <p>JD 9300, 9631 hrs, 4WD, 24 spd Trans, 3 PT, No PTO, 4 Remotes.....\$61,500, McMinnville, #40643</p> | <div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 5px; text-align: center;">TILLAGE</div> <p>Wilrich V957DDR Disk Ripper, 14' Wilrich disk ripper, 9 shanks.....\$26,500 Merrill #457580</p> <p>Case IH ET530 Disk Ripper, 12' Disk.....\$24,750 McMinnville #11161</p> <p>JD 637 Disk, 33' JD Tandem folding disk.....\$55,000 Moscow #745202</p> <p>Frontier TM5124 Disk, Frontier Tandem folding disk.....\$53,000 Madras #101</p> <p>JD 2625 Disk, 31' JD Tandem folding disk.....\$64,500 Colfax #750111</p> <p>Kellobuilt TSW225 Disk, 20' Tandem folding disk.....\$28,000 Donald #EH9221</p> <div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 5px; text-align: center;">COMBINES</div> <p>JD 1670, 1169 hrs, Small Grain, BPU, Rasp Bar Cylinder, straw chopper.....\$197,500 Salem #84492</p> <p>JD 1670, 1138 hrs, Small grain, BPU, Rasp Bar Cylinder, straw chopper.....\$197,500 Donald #84498</p> <p>JD 1670, 1127 hrs, Small grain, BPU, Rasp Bar Cylinder, straw chopper.....\$197,500 Salem #85401</p> <p>JD 9860 2794 hrs, Hillco Leveler, Duals, 4WD.....\$200,000 Moscow #710792</p> <p>Case IH 7010, 1120 hrs, Level Land, 2016 BPU platform.....\$499,999 \$140,000 Tangent #202887</p> <p>JD 9650STS, 3343 hrs, Small Grain, 914P BPU Platform, straw chopper.....\$87,000, Tangent, #685747</p> <p>Case IH 2588, 1809 hrs, small grain, hillside, 30' cutting platform.....\$245,000 \$210,000 Walla Walla #303583</p> <p>JD 9650STS, 2241 hrs, Small Grain, 914P BPU Platform, straw chopper.....\$92,500, Salem, #685945</p> <p>JD 9650STS, 3456 hrs, Small Grain, 914P BPU Platform, straw chopper.....\$80,000, Tangent, #686102</p> <p>JD 9650STS, 3557 hrs, Small Grain, straw chopper.....\$99,950, Harrisburg, #686910</p> <p>JD 5680, 695 hrs, 35% Rahco Leveler, 635F Platform, Stoes Cart.....\$455,200 Tekoa, #755668</p> <p>JD 5680, 1017 hrs, Rahco Leveler, 4WD, 635F Platform & Cart.....\$504,700, Colfax, #746303</p> <p>JD 5690, 666 hrs, 35% Rahco Leveler, 635F Platform, Stoes Cart.....\$583,200 Colfax, #745738</p> <p>JD 9750STS, 2500 hrs, Hillco Leveler, Small Grain, Button Tread Duals.....\$132,400 Colfax, #686502</p> <p>JD 9750STS, 3230 hrs, Rahco Leveler, 4WD, 930R Platform and Cart.....\$130,000 Colfax, #691057</p> <p>JD 9770STS, 1462 hrs, Rahco 35% Leveler, 30' 630R Platform, Stoes Cart.....\$325,000 Colfax, #730456</p> <p>JD 9860STS, 2727 hrs, Rahco 35% Leveler, 30' 630R Platform, Stoes Cart.....\$255,000 Colfax, #710739</p> <div style="background-color: #f0f0f0; padding: 5px; margin-bottom: 5px; text-align: center;">HAY EQUIPMENT</div> <p>John Deere 568 Round Baler, mega tooth, silage wrap, pushbar.....\$22,500 \$18,000 Pomeroy #356329</p> <p>JD 568 Round Baler, 4x4, Manual Controls, 6' Mega Pickup, Push Bar.....\$27,000 Hillsboro #355442</p> <p>Allen 8803, 29' Folding Hydraulic-driven Rake, Electro-Hyd controls.....\$14,000 Merrill #913</p> <p>Allen 8803, 29' Folding Hydraulic-driven Rake, Electro-Hyd controls.....\$14,500 Merrill #908</p> <p>Steffen TBH-8, Loader Mounted Tine Bale Handler.....\$2,950 Madras #184</p> |
|---|--|

PAPÉ MACHINERY

JOHN DEERE

21 Ag & Turf locations in Oregon, Washington, Idaho and Northern California.
papemachinery.com

541-681-5363

All financing on approved credit. Financing special applies only to select pieces of equipment. See dealer for details and qualifying units.

What Sets OVS Apart?

CONVENIENT ONE-STOP SHOPPING

**Growers Supplies • Equipment
Parts & Service • Full Agronomic Services**

MacroBins®

- American Made
- Easily Cleaned
- Can be Sterilized
- High Quality Polypropylene
- Interlock Stacking
- Various Sizes
- Vented or Solid

**VISIT OUR WEBSITE FOR MORE INFORMATION
ON AVAILABLE MODELS AND PRICING!**

We Sell Solutions

OVS AURORA

Equipment, Service & Parts
19658 Hwy. 99 E. • Hillsboro, OR
(971) 214-0111 • (800) 653-2216

OVS McMINNVILLE

Ag Supplies, Equipment, Service & Parts
2700 St. Joseph Rd. • McMinnville, OR
(503) 433-2700 • (800) 653-2216

OVS MEDFORD

Aurora Hardware
640A Mason Way
Medford, OR
(541) 613-7330

OVS SALEM

Clay's Hardware
3124 Brooks Ave.
Salem, OR
(800) 653-2216

OVS PASCO

Clay's Hardware
1810 E. Frontier Loop
Pasco, WA
(509) 781-0898

(800) 653-2216 • www.ovs.com

35-4/17