



John O'Connell/Capital Press

Jeremiah Clark looks over quinoa plants he's raising to produce his own varieties fit for Eastern Idaho conditions June 2 within the new quinoa processing facility he's making in Idaho Falls. Clark has continued increasing his quinoa production this season.

## E. Idaho expanding quinoa production

By JOHN O'CONNELL  
Capital Press

IDAHO FALLS — A local businessman who made Eastern Idaho the nation's top quinoa growing region in 2015 is increasing his production of the nutritious, gluten-free crop this season.

Jeremiah Clark, who contracted with local growers for just under 400 quinoa acres last season, has about 600 acres under contract this season. He's also added two new growers and now works with 10 farmers spanning from Driggs to American Falls.

"Last year, we were shooting for 1,000 pounds per acre, which we thought would be pretty good with the prices," Clark said. "It seemed everybody came in between 1,100 and 1,400 pounds."

Clark had hoped to increase his operation's scope to between 2,000 and 3,000 quinoa acres this season, but prices have dropped sharply recently, dipping well below his prior \$1-per-pound contract rate.

He's poised to open a qui-

noa cleaning, color sorting and processing facility in Idaho Falls within the next two months. Clark has worked with another packing facility to process his quinoa thus far and is still running last season's supply. His new facility will be capable of processing 1,000 pounds per hour, sufficient to handle his entire crop in a month, and of packaging quinoa in smaller bags.

Clark said a couple of large flour mills have contracted for a couple of hundred acres of the current quinoa crop, for use in breakfast cereal production, wanting an "American-sourced quinoa they can depend on year in and year out."

He's also raising his first 150 acres of quinoa for the organic market and has interest from a West Coast organic flour producer.

"There are no herbicides or pesticides labeled for quinoa anyway," Clark said. "I figured we're 90 percent of the way (to organic) anyway."

Clark plans to apply for a patent this fall on the first variety he's developed in his

own greenhouse for Eastern Idaho's conditions, called Kailey.

Firth farmer David Mundt is raising 5 acres of Kailey for seed this season. Mundt was intrigued by quinoa when he saw fields during his mission to Peru with the Church of Jesus Christ of Latter-day Saints.

"For me, it's an opportunity to diversify," Mundt said. "Further in the future, diversification is going to be key to our industry."

Clark also has a second variety in development, called Eli, capable of producing a crop within 90 days. It yields denser heads with larger seeds on shorter stalks, preventing the plants from tipping.

University of Idaho is conducting trials this season into quinoa fertilizer application and seeding methods.

Soda Springs grower Larry Simmons has hedged his bet with quinoa, planting 30 acres simultaneously with alfalfa. If all goes well, he said he'll harvest the quinoa, which grows taller than alfalfa, but he still has the hay as a backup.

## Quinoa investigated for PCN control

By JOHN O'CONNELL  
Capital Press

FIRTH, Idaho — One of Eastern Idaho's newest and most promising specialty crops may also provide another tool for growers in the region looking to suppress a quarantined pest, pale cyst nematode.

For the past few years, the region's growers have slowly increased their planted acreage of quinoa, an ancient, gluten-free crop native to Peru valued for its high nutritional content.

Ten local quinoa growers are raising about 600 acres of the crop, but those numbers could rise markedly if a University of Idaho trial conducted at the Idaho Potato Commission's behest demonstrates quinoa can help control PCN, as research in South America has demonstrated.

Idaho's PCN species, discovered in 2006, is known to exist in the U.S. only within a 7.5-mile radius encompassing prime potato production acres in Bingham and Bonneville counties. USDA is treating 2,897 infested acres, and the program includes another 7,032 acres governed by special testing and sanitation requirements due to associations with infested fields.

The program abandoned the use of its most effective treatment, methyl bromide, in May 2014 due to concerns about it carrying over into subsequent crops. The program has been moving toward planting litchi tomato as a so-called trap crop, which stimulates hatching of cysts in the absence of a viable host, but the plant presents special challenges due to its current status as a weed.

"(Quinoa) would be a cash crop rather than growing litchi tomato," said Brian Searle, president of Idaho Farm Bu-



John O'Connell/Capital Press

Pat Kole, vice president of legal and government affairs for the Idaho Potato Commission, inspects a quinoa field in Firth, Idaho. At Kole's request, the University of Idaho is conducting a trial to determine the potential use of quinoa as a tool in Idaho's pale cyst nematode eradication program.

reau Federation and a regulated grower who serves on a PCN advisory committee. "Not only would it be a payment, but litchi tomato is on the invasive species list. Litchi tomato, I think, is falling off the list of options real fast."

On the morning of June 2, Pat Kole, IPC's vice president of legal and government affairs, evaluated a small quinoa field in Firth, on ground that was recently deregulated from the PCN associated fields list.

Kole said UI has planted quinoa varieties in a greenhouse, along with PCN eggs. Results of the trial should be available within a month, he said. Furthermore, Inga Zasada, a nematologist with the USDA's Agricultural Research Service in Corvallis, Ore., confirmed plans to test several plant species, including quinoa, against PCN at the request of Louise-Marie Dandurand, director of UI's pale cyst nematode project. Zasada knows of a single paper from Bolivia highlighting quinoa's effectiveness in

controlling PCN.

Kole explained he thought of testing quinoa after hearing a speech in Boise by Jeremiah Clark, an Idaho Falls businessman who has bred quinoa varieties for the region and is marketing the growers' production. Kole said PCN, like quinoa, is a native of Peru. A quick literature check confirmed to Kole that quinoa may emit a natural nematicide.

"I got a hold of some researchers at UI. They agreed they would take some seed from Jeremiah," Kole said, adding the addition of quinoa into the PCN program could also give Clark's business a major boost. "They could have a crop that helps them both financially and in terms of dealing with the nematode issue."

Clark said prices paid for quinoa are down, but he sees great long-term demand.

"As long as we can compete with Peru, there's a 200 to 300 million pound market for it every year," Clark said, adding quinoa could also be chopped for forage.

## Farm regulators drop 'stop work' authority proposal

By MATEUSZ PERKOWSKI  
Capital Press

JOHN DAY, Ore. — The Oregon Department of Agriculture has dropped a proposal to give the agency "stop work" authority over food processors and pesticide applicators.

Earlier this year, ODA was considering asking the legislature for a new regulatory tool to prohibit companies from using equipment or taking actions that are potentially hazardous.

These "stop work" orders would be more specific than the agency's current authority to suspend or revoke the licenses of regulated companies.

After "combing through" existing enforcement laws for state agencies, however, the agency decided to first try using tools that are already on the books, said Lisa Hanson, ODA's deputy director.

"We feel like we have ad-

equate authority there after a lot of work rethinking the statutes," she said during a June 7 meeting of the Oregon Board of Agriculture in John Day, Ore.

It will likely be possible to compel companies to "cease and desist" hazardous activities with statutory tools that ODA has not used in the past, said Katy Coba, the agency's director.

"If we exhaust those and they don't work, we can come back and look at new statutory authority," Coba said.

While the "stop work" idea was scrapped, ODA has also decided against seeking federal funds to conduct on-farm food safety inspections.

The agency will instead wait to see what role the U.S. Food and Drug Administration will play in on-farm enforcement of the Food Safety Modernization Act, the law that Congress passed in 2011 and is just now going into effect through new regulations.

Apart from refining "legislative concepts" regarding agricultural policy, the ODA is also currently examining possible funding requests for next year's legislative session.

State agencies are expected to face a budget shortfall in the 2017-2019 biennium due to increased costs related to Oregon's Public Employee Retirement System.

However, state government may obtain several billion dollars in revenue if voters approve a ballot initiative raising corporate taxes this year.

The ODA is conservatively planning for budget cuts if the initiative fails, but the agency has also undertaken a parallel process to identify "asks" if it passes, said Coba.

"It's kind of a strange budget prep for us," she said.

The agency will have more specific budget plans ready to submit to Oregon Gov. Kate Brown in September, she said.

## PREPARE FOR AN OUTSTANDING CAREER IN:



DIESEL AGRICULTURE AUTOMOTIVE

- OFFERING CERTIFICATE AND TWO OR FOUR-YEAR DEGREES
- CURRICULUM STRUCTURED TO MATCH INDUSTRY STANDARDS AND EXPECTATIONS
- MSU-NORTHERN HAS ONE OF THE ONLY FOUR-YEAR DIESEL DEGREES IN THE COUNTRY

CALL US TODAY FOR MORE INFORMATION:  
**1-800-662-6132 • msun.edu**

**MONTANA STATE UNIVERSITY  
NORTHERN**  
Education that Works



This workforce product was 100% funded by a \$1.7 million grant award from the U.S. Department of Labor. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor.

24-7144x

## Used Inventory Specials

**12-month waiver -OR- 3 Years @ 0% -OR- 5 Years @ 0.9%**

### TRACTORS



**JD 6125R**, 380 hours, premium cab, IVT, MFWD, headland mgmt., dual PTO, 3 remotes.....**\$105,000** Salem 795991

**JD 7230R**, 489 hrs, Premium cab, MFWD, IVT trans., AT ready, 2630 Disp., Receiver, 520-46 duals .....**\$209,500** Salem 82541

**JD 5115ML**, 526 hours, Low profile, ROPS, MFWD, 3 rear remotes, 540 PTO...**\$52,000** McMinnville 483050

**JD 4430**, 11394 hours, Cab, 2WD, Power Shift trans., 2 remotes, 14.4-38 rear single tires.....**\$14,500** Madras H008R20R

**JD 6330**, 353 hours, open station, MFWD, PQ trans., 2 remotes, 480-38 rear singles. **\$66,000** Donald CF747192

### TRACTORS



**JD 8360R**, 976 hours, Premium cab, IVT, ILS, 710/80R-38 duals, 4 remotes, AT ready.....**\$267,700** Donald 072619A

**JD 3039R**, 168 hours, Cab, MFWD, Hydrostatic trans., 540 PTO, JD H165 loader.....**\$32,500** Central Point EH140427

**JD6125M**, 1967 hours, open station, MFWD, H340 loader, 2 remotes, 18.4-34 rear tires.....**\$72,000** Donald DA778051

**JD 7330**, 2982 hours, Open station, ROPS, PQ trans., JD 7415L loader, 3 remotes, dual speed PTO.....**\$70,000** McMinnville 0D021808

**Case IH 535**, 2600 hours, 4WD, PS trans., 800/70R-38 duals, 4 remotes, bareback, leather seat.....**\$170,000** Walla Walla 108988

### TRACTORS



**JCB 8250**, 1050 hours, Fast Trac, cab, F&R 3pt hitches, F&R PTO, CVT trans., 3 frt, 4 rear remotes.....**\$159,900** Hillsboro 1139231

**Challenger MT755B**, 6739 hours, Cab, 24" tracks, PS trans., 3pt hitch, 4 remotes, ballast package.....**\$127,000** Merrill NTBIC1048

**Case IH MX125**, 1,274 hours, Std. cab, MFWD, PS trans, dual PTO, 16.9-38 singles.....**\$63,250** Madras E09936

**CaseIH 435**, 2745 hours, Cab, 4WD, PS trans., 710-38 duals, 4 remotes, 55 gpm pump, diff locks.....**NEW LOWER PRICE \$194,500** Four Lakes 117203

**IHC 1026**, 3800 hours, Cab, 2WD, Hydrostatic trans., Allied 660 front loader 540 PTO.....**\$12,500** Four Lakes 30U00962

### COMBINES

**JD 9870**, 1389 hours, Level Land, small grain, 650/85-38 duals, straw spreader. .**\$209,000** Four Lakes 80741568

**JD 9770STS**, 3079 hours, small grain, 35% Rahco leveler, 630R platform & cart.....**\$225,000** Colfax OS730470

**JD 5670**, 1045 hours, small grain, Hillco 28% leveler, Prodrive, 24.5-32 tires.....**\$400,000** Moscow C0755421

### COMBINES

**JD 5690**, 350 hours, small grain, 28% Hillco leveler, 24.5-32 duals, 4WD, Countour Master.....**\$500,000** Moscow D0765122

**JD 9750**, 3500 hours, small grain, Hillco 28% Leveler, 24.5-32 tires, 630F platform and cart.....**\$198,500** Moscow 691274

### COMBINES

**JD 9650STS**, 3112 hours, sm grain, 18% Hillco leveler, grass seed combine, 914P BPU.....**\$118,000** Salem OS700523

**JD 5670**, 280 hours, small grain, Rahco 18% 4-way leveler, 615P BPU platform..**\$370,900** Tangent 765553

**JD 5680**, 881 hours, small grain, 35% Rahco Leveler, 635F platform and cart.....**\$429,900** Four Lakes 755668

### WINDROWERS



**JD A400**, 497 hours, 16' 896 double auger sickle platform, V10 conditioner.....**NEW LOWER PRICE, \$80,000** Madras 380017

**JD A400**, 1611 hours, Cab, 16' double auger sickle platform, V10 conditioner .**\$53,500** Merrill AA360142

**JD W235**, 414 hours, Cab, 16' 995 rotary cutterbar, Legacy Air grass seed platform, water system.....**\$189,000** Tangent 400145

### WINDROWERS



**JD R450**, 195 hours, Cab, 16' Rotary cutterbar, V10 steel conditioner.....**\$120,900** Madras DD391148

**JD R450**, 415 hours, Cab, 16' 995 Rotary cutterbar platform, V10 conditioner.....**\$109,000** Madras CD390755

### WINDROWERS



**Premier 2940**, 1300 hours, cab, 14' 933 MacDon platforms, grass seed specials, 5 identical units.....**\$5 TO CHOOSE FROM! \$40,000** Salem

**JD 4995**, 2100 hours, cab, 16' 995 rotary cutterbar platform, V10 conditioner.....**\$60,000** Pomeroy 5X340905

**JD W150**, 194 hours, cab, 16' auger grass seed special sickle bar, demo unit..**\$95,500** McMinnville 390126



**JOHN DEERE**



**PAPÉ MACHINERY**

**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.

24-4#5