

News and Views

JANUARY 2011

Office Directory

Wayne Jones, Agriculture Agent

Ext 105

See page 2-4 for Agriculture information

Deanna Poulsen, Family and Consumer Sciences

Ext 106

See pages 5 & 6 for FCS information

Andrea Skinner, 4-H Program Coordinator

Ext 104

Debbie Detering, 4-H Secretary

Ext 100

Cheryl Carter, Extension Secretary

Ext 101

Monica Allen, Horticulture Aide

Ext 103

See page 9 for Horticulture information

Master Gardener Office, Ext 108

Closed for the season

Office Hours: Monday through Friday

8:00 a.m. to 5:00 p.m.

University of Idaho

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We finally made it to 2011. Overall things turned out alright. Of course we had our typical atypical weather for the year, a late spring, cool most of the early summer, then a wonderful prolonged fall. In fact, it was too warm on some days to harvest potatoes. Mother Nature in her infinite wisdom had to balance things out and cooled us right down during Thanksgiving week. Along with the cold weather we had some serious snow and wind. There is nothing like living in SE Idaho if you like a change in the weather. The water outlook for the coming irrigation season looks to be good right now, what with plenty of reserve water in the reservoirs and snow levels way above average, at least for now.

Things at the extension office are also typically atypical. We are down in numbers and are in the process of trying to hire a new person for the Food and Consumer Science position which was previously held by Barbara Petty, and most recently by Deanna Poulsen. They have been missed, not only by us in the office, but by many of you who depended on them for so many things. With any luck we will be able to get someone on board soon. Given the worries about more cuts to the state budget, we are hoping to get a person in place quickly. Meanwhile, the rest of us are hard at work preparing for another busy season. The commodity schools are scheduled, and look to be very informative.

Information may be found in this newsletter. There is also information concerning Amaryllis, round tables, MG classes and the Horticultural Symposium. It is Master Gardener season and we are filling up class space very rapidly. Don't miss the information in the 4-H section. The many 4-H day camps are bursting at the seams. There is information on a teen Ambassador Retreat and information on college scholarships on the 4-H page also.

We at the Extension Office wish all of you a very good and prosperous new year. As always it is an honor to serve you, Idaho's greatest resource.

Wayne B Jones

AG NEWS

Wayne B. Jones, Extension Educator

University of Idaho Commodity School Schedules:

Potato Conference

The annual Potato Conference will again be held at Ponds Student Union on the Idaho State University campus on the 19th and 20th of January. Among the several topics to be covered are disease issues, irrigation management, planter performance, fertilizer, pesticide and fumigation issues, cost of production, along with several other topics. There will once again be a Spanish session. Pesticide applicator license credits will be offered.

Cereal School

The annual Cereal School will be held in Idaho Falls on February 3rd at the Red Lion Inn. Registration will start at 8:30 and the program will start at 9:00. The topics to be covered include variety updates, weed, insect and disease updates, and commodity reports from the various commissions. There will also be a presentation on controlling voles and gophers. Pesticide applicator license credits will be offered.

Nematode issues

The following article appeared in the Spudvine last year, but given the new regulations on fumigation it may be wise to review our knowledge about the nematodes we deal with here.

Alternative Methods for Nematode Management

Saad L. Hafez and P. Sundararaj

Nematodes are minute worm-like animals able to move between soil particles, between folded leaves of plant buds, in the air spaces of leaves and stems or in plant tissues themselves. More than 68 species of plant parasitic nematodes belonging to 24 genera are associated with potatoes from different parts of the world. The discovery of root-knot nematode on potatoes in the U.S. dates back to 1889 when Neal reported *Meloidogyne arenaria* on a potato crop in Florida. Jensen discovered stubby-root nematode, *Paratrichodorus allius*, in 1963 from an Oregon potato field. Later, it was demonstrated that *P. allius* transmits the tobacco rattle virus (TRV) that causes the corky ringspot disease of potatoes. The earliest record of lesion nematode, *Pratylenchus* spp., on potato in the U.S. was by Cobb, who found that *P. penetrans* was causing pustules over the surface of potato tubers. In the U.S., the potato-rot nematode, *Ditylenchus destructor*, was first found in Idaho on six farms in the vicinity of Aberdeen. In 2006, pale cyst nematode, *Globodera pallida*, was first detected in the U.S. in Idaho (Bingham County). Among all the nematodes, most important to potato production in Idaho are root-knot nematode (*Meloidogyne* spp), stubby-root nematode (*Trichodorus* and *Paratrichodorus* spp.), root-lesion nematode (*Pratylenchus* spp.), stem nematode (*Ditylenchus* spp.) and pale cyst nematode (*Globodera pallida*).

Root Knot Nematode (*Meloidogyne* spp.)

Root-knot nematodes (*Meloidogyne* spp.) have been recognized as a major nematode pest on potato and are frequently found in abundance, especially in sandy soils. They severely damage

potatoes and cause significant losses, in both warm and cool climates, depending upon the nematode species. Although there are several species of root knot nematodes, the two most common on potatoes in Idaho and eastern Oregon are the Columbia root-knot nematode (*M. chitwoodi*) and Northern root-knot nematode (*M. hapla*).

If the root-knot nematode population in the field is 10 or more per 500 cc soil following alfalfa, a fumigant type nematicide can be applied alone or along with a non-fumigant nematicide. Application of the fumigant, Telone II®, at the rate of 18-26 gal/ac in the fall is one of the best options. Metam sodium products such as Vapam® or Kapam are good contact biocides and can also be applied at the label rate in combination with other non-fumigant nematicides such as Mocap®, Vydate® and Temik®. Preliminary research with products like Admire® and Movento™, which are labeled for insect control in potatoes, has shown these products reduce nematode numbers and yield loss as well. However, more research is needed to determine if there is consistent nematode control before these products could potentially be labeled for such use. In combination treatments, Temik should only be used in areas where the growing season is 150 days or more.

Movento is a new chemistry from a different class of compounds called tetramic acids. It has the unusual ability, once absorbed, to move well both up and down within many dicot plants like potatoes. It has exhibited both insecticidal and nematicidal activity against endoparasitic nematodes in testing. Movento can be applied to potatoes as a foliar application for aphids and psyllids using a maximum of 10 fl oz/ac for the season. It has not been registered as a nematicide to date. Mocap is a contact organophosphate nematicide, which can be applied at labeled rates as a preplant, broadcast incorporated and used in conjunction with Vydate, Temik, Admire or Movento.

Root-Lesion Nematodes (*Pratylenchus* spp.)

Root-lesion nematodes (*Pratylenchus* spp.), are migratory endoparasites and are of concern to potato growers because they reduce yield indirectly by weakening and increasing stress on the plants and by making them more susceptible to fungal and bacterial diseases. There is also a positive correlation between root-lesion nematodes with the incidence of Verticillium wilt (early die). Although more than 15 species of root-lesion nematodes are reported to parasitize potato, *Pratylenchus neglectus* is the predominate lesion nematode species in Idaho.

Two species of root-lesion nematode, *Pratylenchus neglectus* and *Pratylenchus penetrans*, can increase susceptibility of potato plants to the potato early-die complex. They cause significant yield loss to potato if the crop rotation is short or includes planting susceptible host crops such as cereals, beans or alfalfa. Among the three species of lesion nematodes, *P. penetrans* is more virulent, hence the field should be treated with nematicides if the population of this nematode is 100 nematodes/500 cc soil.

Although the other two species, *P. neglectus* and *P. thornei*, cause yield loss, the economic threshold level will be higher, at 2000 nematodes/500 cc soil. The field should also be treated if it has a history of early dying. Lesion nematodes are easily controlled by the use of non-fumigant nematicides such as metam sodium products at the label rate or Temik 15G at the label rate of 20 lbs/ac where the growing season is 150 days or more. Vydate can be applied at planting and

multiple post-plant applications according to label rates. Testing has shown Admire results in some suppression of lesion nematode when applied as a seed treatment (7 oz/ac) or at planting in seed furrow (8.7 oz/ac). Limited testing indicates Movento (10 oz/ac maximum for the season) also provides some level of control of lesion nematode. Again, this product is currently only registered as a foliar applied insecticide, but exhibits some control of endoparasitic nematodes like lesion from foliar applications.

Stubby-Root Nematodes (*Paratrichodorus* and *Prichodorus* spp)

Stubby-root nematodes (*Trichodorus* spp. and *Paratrichodorus* spp.) are migratory ectoparasites that cause deformation of potato tubers and are found in sandy, moist, cool soils. Damage is profoundly influenced by soil moisture and is greater in wet seasons. These nematodes are important parasites of potatoes, not so much for the direct damage they cause but as vectors for tobacco rattle virus, which they transmit to potatoes. This virus causes a disease of potato tubers called corky ring spot. Rusty, brown, irregularly shaped lesions that have a corky texture appear in the flesh of infected tubers. Corky ring spot problems occur mostly in isolated sandy soil areas of southern Idaho. These nematodes have wide host ranges, making management with crop rotation difficult and relatively ineffective.

Stubby-root nematodes are difficult to control with fumigants because of their mobility in the soil. These nematodes are highly sensitive to change in soil moisture and temperature. Fluctuation in these two factors causes the nematode to move up and down in the soil profile. Stubby-root nematodes can reside at soil depths of more than 40 inches. Telone II must be applied at high rates to treat deeper in the soil profile.

Stubby-root nematodes have been controlled effectively with non-fumigant nematicides in different parts of the world, but metam sodium does not work well. Non-fumigant, systemic, carbamate nematicides like Temik, when applied at planting, remained active for 8-12 weeks after application. Non-fumigant nematicides such as aldicarb (Temik) and oxamyl (Vydate) are usually the products of choice for controlling stubby-root nematode in Idaho. Temik moves up and down in the potato hill with the waterfront, reaching nematodes as they move in the soil. Temik and Vydate's systemic activity also affects nematodes as they feed on the root system of potato plants. Temik applied as an in-furrow at planting, modified in-furrow at planting or in-furrow at planting in combination with foliar applications of oxamyl (Vydate) resulted in the lowest incidence of corky ring spot disease and had the highest total and marketable yields.

About the authors: Saad Hafez is Extension Nematologist Specialist and can be reached at (208) 722-6701, ext. 237 or shafez@uidaho.edu; P. Sundararaj is Research Nematologist and can be reached at (208) 722-6701, ext. 236 or sundar@uidaho.edu. Both are with University of Idaho and are located at the Parma R & E Center.

Did You Know?

Some of the smallest known nematodes are only 0.004 inches long (0.1 mm), which is about the thickness of one sheet of paper.



4-H News



Andrea Skinner
4-H Program Coordinator

BONNEVILLE COUNTY 4-H News

HAPPY NEW 4-H YEAR!!!

Please come into the extension office and enroll for the new year.
Both leaders and members need to re-enroll.



We have a few deadlines:

For the **Horse** Project: you must be enrolled prior to April 29th

For **Livestock** projects: you must be enrolled prior to March 5th (beef weigh-in date) or prior to the weigh-in of that species.

**NO REGISTRATIONS WILL BE ACCEPTED AT WEIGH-INS,
ABSOLUTELY NO ACCEPTIONS!!!!!!**

Idaho State Angus Association Show and Sale will be held at the College of Southern Idaho Exposition Center. The College would like to invite your 4-H club judging team to participate in the judging contest on February 12th. Registration for the contest will begin at 8:00 a.m. and the judging will start at 9 a.m. Enrollment deadline is Monday, February 7, 2011; however, walk in enrollment will be accepted. Enrollment forms are available at the 4-H office. If you have any questions, please contact Mr. Jim Knight at 208-732-6414.

4-H T.A.L.K. Retreat—March 18-20 A Teen Ambassador Leadership kit (T.A.L.K.) retreat will be held March 18-20 at the Campus Grove at Albion, Idaho. Each participant will have the opportunity to learn about event planning, goal setting, job/interview skills and photography. The event begins on Friday evening and ends on Sunday approximately at noon. 4-H teens ages 13-18 by January 1, 2011 are invited to participate. Cost of \$50 includes activities, meals, snacks, lodging and Ambassador Polo Shirt. But if you return your application by February 25th, you receive a \$10 discount—a good deal for a fun filled weekend with 4-H teens from around the state! For registration forms and more information, contact the Bonneville County Extension office at 529-1390.

<http://www.extension.uidaho.edu/bonneville/>



BONNEVILLE COUNTY 4-H News

2011 4-H College Scholarships

Attention High school seniors! Before you know it, 4-H college scholarship applications will be due. It is not too early to start completing the application process! The following 4-H college scholarships are available. The applications and information can be found on-line at www.4h.uidaho.edu.

All applications are due to the Idaho State 4-H office by February 15, 2011.

- Idaho Friends of 4-H Board College Scholarship (\$1000)
- Cooper “Whitey” and Leona Fletcher Memorial College Scholarship (\$1000)
- O.M. Plummer Memorial College Scholarship (\$300—\$700)
- Johannsen Leadership College Scholarship (\$1000)
- Ruth Shane Memorial Scholarship (\$1000). Primary consideration will be given to applicants with Family and Consumer Sciences project achievement and leadership in the 4-H community.
- Lillian Jeanette Craig Memorial Scholarship (\$1000) will be awarded to cancer survivor or sibling of someone who has cancer.

SAVE THE DATE
TEEN CONFERENCE 2011
JUNE 13-17
University of Idaho Moscow Campus

| | | |
|--|---|---|
| <p>Learn</p> <ul style="list-style-type: none"> Educational workshops Community service Electing youth leaders Collegiate life Life skills |  | <p>Enjoy</p> <ul style="list-style-type: none"> Swimming Dancing Group sports Variety show Making friends |
|--|---|---|

“So much fun a caveman would come”

 **University of Idaho
Extension**

For more information visit the Teen Conference web page at www.4h.uidaho.edu



BONNEVILLE COUNTY 4-H News

UPCOMING DAY CAMPS:

All day camps have a cost of \$10.00; ask about scholarships. Please send your child with a lunch. If your child can not attend the entire scheduled time, please choose another day camp.



Lap Blanket Day Camp

Saturday, January 22nd from 9 a.m. to 3 p.m. Make a cozy Lap blanket. You will be given the opportunity to donate this creation to a charity. This is an intermediate level sewing project.

Cake Decorating: Beginning Level 1

Saturday, February 5, 2011 from 9 a.m. to 3 p.m. Learn the basics of decorating cakes. This day camp will be taught by guest teacher Ray Summers. Limit of 12.

Hair Accessories Day Camp

Saturday, February 26, 2011, 9 a.m. to 3 p.m. We will be constructing all those cute hair decorations that are so popular right now. Limit of 20.

2011 Know Your Government Conference

The annual 4-H Know Your Government Conference provides 4-H members in the 8th and 9th grades the opportunity to learn more about our government by experiencing firsthand how Idaho's Legislative and judicial systems work. Youth will participate in mock trials and legislative sessions as well as watch our legislature work, tour the Capitol building and have breakfast with Idaho's legislature and judges. Delegates will stay at the Red Lion Hotel in Boise. The 2011 conference is scheduled for February 19-21 (Presidents' Day holiday weekend so kids won't miss school). The cost for the conference is about \$130. There are great scholarships available that GREATLY reduce the cost to the youth. For more information, contact Andi or Deb at 529-1390.

Application deadline is January 7, 2011.



Protected Under
18 U.S.C. 707

4-H News



Protected Under
18 U.S.C. 707

THE RULES, by LeRoy Leonard

The year I took old Rex to the fair in a hackamore, I learned a big lesson about rules.

Rex had been my good old dependable cow horse since he was a colt, and when my son came along needing a nice gentle mount for 4-H, Rex seemed to be the ideal candidate. Other than a penchant for not wanting to be caught, Rex was quiet and reliable, and was the perfect horse for a beginning 4-Her. The only problem (I soon found out) was that I had always ridden Rex with a hack.

It wasn't that I was a bad horse trainer, it was just that Rex did well in his hack and I never saw a reason to change. At 14 I figured he'd been in it long enough that he wouldn't like changing to a bit, and since we were both satisfied—then why not stay with what made us both happy?

That is, until we got to the fair.

Here we were quickly told that if Rex didn't have an approved bit, my son would be immediately disqualified. I argued ("The horse is old! He likes his hack! He doesn't know how to use a bit! He's well trained!") I pleaded, ("But my son's worked hard! He's a good rider! He got up at 5 this morning to wash the horse!") and none of it flew.

The reason? It was THE RULES.

Fast forward 12 years and I'm chairman of the District Horse Council—announcing at the state fair, teaching at horse camp and generally trying to oversee a lot of this 4-H horse project. I can not tell you the number of times I have had upset parents come to me because their son/daughter didn't win the Big Ribbon for not following THE RULES.

Hands holding the reins wrong? BZZZZZZ

Wrong kind of bit? BZZZZZZ Short-sleeved shirt? BZZZZZZ

"But...but...but..." these parents will say. And I have to tell them I'm sorry, it's THE RULES.

This year we are going through our state fair rule book to make some of these areas more clear. We have new guidelines that show (in living color!) the kinds of bits that are allowed. We're talking about having meetings with the leaders and judges beforehand so they know exactly what we're talking about.

But it all boils down to you—the parents and leaders.

BEFORE the fair—check and see what type of bit is allowed.

BEFORE the fair--make sure your child is properly dressed.

BEFORE the fair—check on what kind of rein your child is using and how it should be held.

(Did I mention that you need to do this BEFORE the fair?)

Tromping up to the announcer's stand with a glare in your eye won't help.

Because...IT'S THE RULES.

HORTICULTURE INFORMATION

- Monica Allen
Horticultural Aide



NOTES FROM MONICA

The Extension office is currently taking applications for the 2011 Master Gardener class. This class consists of 14 weeks of intensive training followed by 40 hours of hands on volunteer service throughout the summer. The cost is \$65 dollars which includes the Master Gardener text book. The application deadline is January 14th, 2011. If you have any questions feel free to call Monica at 529-1390 or email me at mallen@uidaho.edu. Applications are also available on our website at www.extension.uidaho.edu/mgse Space is limited so hurry in and sign up now!!



In place of January's Roundtable the Beginning MG orientation night will be held on Thursday January 27th at 6:00 pm here at the Extension office in the basement classroom. In conjunction with the orientation we will be holding an opening social to get to know our 2011 Beginning Master Gardeners All Beginning and Advanced/Veteran Master Gardener are encouraged to attend.

Our Roundtables will be held on the second Tuesday of the month in February, March and April due to the Beginning MG classes scheduled for Thursday evenings. Following the Beginning MG classes they will return to the second Thursday of the month. Watch your emails for more information.

Mark your calendars. This years Annual "Thaw and Awe" a Horticulture Symposium will be held on March 19th 2011. Be sure to save the date, were putting together a great program for you!!

All Advanced and Veteran Master Gardens, your classes will be held on Tuesday evenings this year from 7-9 pm throughout the months of March and April. Watch your emails for more specific details once we get all the wrinkles ironed out!

University of Idaho HomeWise

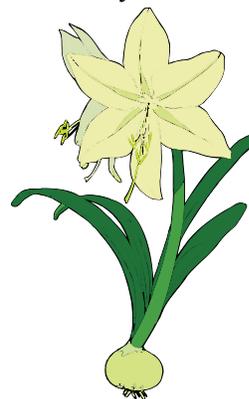
"Sparkling" amaryllis can rebloom next year

BOISE, Idaho-It means "sparkling" in Greek and that's what amaryllis contributes to holiday décor in Idaho homes. Encountered by a European physician on an 1828 plant-hunting trip to Chile, amaryllis now

blooms in colors from pure white to red, with shades of salmon, pink and orange as well as multi-colors and stripes.

Some new amaryllis bulbs cost so much that it can be worth a gardener's efforts to encourage rebloom, says Bob Hanson, a University of Idaho Advanced Master Gardener. Here's how he does it:

- During the current holiday season, keep the growing and blooming bulb healthy by watering it whenever the soil dries to an inch deep; soil should be moist but not soggy. Once a month, apply a balanced water-soluble fertilizer that contains such micronutrients as iron and magnesium.
- Deadhead the flowers as they fade, removing the green lump behind the bloom and the thin stem that connects it to the main stem. Dead-heading prevents formation of seeds, which rob bulbs of nutrients.
- When the bloom period is over, cut the main stem back to about 2 inches and put the pot, with its green leaves intact, in a sunny place. Continue to water and feed your amaryllis regularly so that its leaves can produce plenty of food to restore the bulb.
- If you'd like, move the plant outdoors, burying it pot and all, after any danger of spring frost has passed.
- In September and before the first fall frost, cut off the yellowed and dead leaves and store your amaryllis-still in its pot-in a cool, dry, dimly lit location indoors. Withhold all water during this period of forced dormancy.
- Six to eight weeks before you want to see those fabulous blooms again, set the pot in a warm, sunny place and start watering and fertilizing it again. Hanson says it's a good idea to replace the top inch of soil with new potting mixture, mixed with a teaspoon of bone meal. Be careful not to disturb the roots or damage new growth when you're doing this, he says.



Jan.—Mar. 2011 Newsletter

Calendar of Events

| Date | Event | Location | Contact |
|--------------|------------------------------------|--------------------------|--------------|
| Jan. 7 | FCS Committee meeting 3:30pm | Extension Office | Andi Skinner |
| 1/19 | Advisory Council 7:00pm | Extension Office | Andi Skinner |
| Jan. 19 & 20 | Potato School | ISU Campus Pocatello | Wayne Jones |
| Jan. 27 | Beg. MG Orientation and Social 6pm | Extension Office | Wayne Jones |
| Feb. 3 | Cereal School, Registration 8:30am | Red Lion Inn Idaho Falls | Wayne Jones |
| Feb. 7 | Fairboard meeting 7:00pm | Extension Office | Andi Skinner |
| Mar. 5 | Beef Weigh-in 8-10:30am | Johnson Feedlot | Andi Skinner |
| Mar. 7 | Fairboard meeting 7:00 pm | Extension Office | Andi Skinner |
| Mar. 19 | Thaw-n-Awe Horticulture Symposium | University Place | Wayne Jones |

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Coming Soon

Spring Food Preservation Class

This will be a five week course, one 3 hour morning class per week.

Please contact us if you are interested in attending and we will keep you informed of registration, cost and any other details as they are made available.

208-529-1390

