

SPRING 2005

BERRY COMMISSIONS News



A grower newsletter for the
Oregon Raspberry & Blackberry Commission
and the Oregon Strawberry Commission



With Great Taste Comes Great Power – Get This Free Brochure Today!

- by Cat McKenzie, Berry Works, Inc. -

The Oregon Raspberry & Blackberry Commission (ORBC) growers and processors looking for a new means of letting customers know about the outstanding health benefits of Oregon berries have a great tool at their disposal this season. The newest ORBC promotional brochure entitled “With Great Taste Comes Great Power”, is not only an elegant eye catcher, but contains the most up to date health benefit berry information available. The best news is that this fantastic marketing tool is available absolutely free. The brochure is a three fold, full color presentation that is designed to let people know that Oregon berries are among the highest foods in antioxidants, vitamins, minerals and a host of other nutrients. The brochure is written in clear and to the point language, which is easy for customers to understand.

The central section of the brochure features a breakdown of the health benefits of six individual berries – red raspberry, black raspberry, Marionberry, Boysenberry, Loganberry, and blackberry. The nutritional impact that eating these berries can have on health, such as helping the body fight against cancer, heart disease, mental aging and inflammation, is clearly outlined.

A basic guide to the terms used in speaking about berries and health is included in the brochure. Tongue twisting terms such as ellagic acid, anthocyanins and antioxidants are defined in a section called “How to increase your vocabulary in just one bite...” Consumers have shown that health is one of their number one concerns regarding food purchases. This brochure will help you, the grower, or the processor answer the questions that your customers have on berries and health and will allow you to offer them an information packed handout to take home.



The ORBC is making these brochures available to all Oregon berry growers and processors just in time for the 2005 harvest season. This stunning brochure will definitely fly off the self at your fruit stand or be the keystone of your company’s presentation portfolio.

The brochures are offered **free of charge** and you may order as many as you will need by contacting the ORBC offices at 541-758-4043.

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Pesticide Registration Update for Caneberries and Strawberries

- by Joe DeFrancesco, OSU -

Several new pesticides have been registered for use in caneberries and strawberries during the past year. In addition, there are pending label changes that may affect berry growers. Following is brief summary of some of the more important new registrations and pest management issues from the past year.

New Pesticide Registrations:

- **Kanemite** (acequinocyl) miticide was granted a label for use in strawberries in August 2004. Kanemite controls all life stages of spider mites and has a unique mode of action which will help to prevent cross-resistance to other miticides currently registered for use in strawberries. Kanemite should provide quick knockdown and long residual control of spider mites, while being relatively harmless to most predacious (beneficial) mites. There is a long (1 year) plant-back restriction after Kanemite application if planting back to a crop other than strawberries.

- **Zeal** (etoxazole) miticide was granted a strawberry label in 2004. Zeal is primarily an ovicide/larvacide and, as such, should be used early in the life cycle of the mites.

- **Actara and Platinum** (thiamethoxam) are insecticides that were granted labels for use in strawberries in early 2005. Platinum is the soil-applied formulation of thiamethoxam; Actara is foliar-applied. Thiamethoxam is effective in controlling aphids and leafhoppers. Our ongoing research indicates that Platinum may be effective in controlling root weevil larvae. Thiamethoxam is a similar chemistry to imidacloprid (Provado and Admire), and has a similar mode of action; growers should be mindful of rotation and resistance management when using imidacloprid and thiamethoxam.

- **Scala** (pyramethanil) was granted a registration in strawberries in 2004. This fungicide is effective in controlling *Botrytis* fruit rot. Be aware of the buffer restrictions that appear on page 8 of the label.

- **Captevate** (captan + fenhexamid) fungicide is already registered for use in strawberries and was labeled for use in raspberries in 2004. However, due to a registration glitch, the label for blackberries is still pending. Captevate is effective in controlling *Botrytis* fruit rot and other diseases that are controlled with Captan alone. The two active ingredients in Captevate will help reduce the likelihood of resistance.

- **Entrust** (spinosad) insecticide was registered for use in caneberries this past year; it is already registered for use in strawberries. Entrust is the organic formulation of spinosad. (Success, the non-organic formulation of spinosad, is also registered for use in strawberries and caneberries.) Entrust is a contact insecticide that has efficacy against a wide range of insects, including leafrollers, thrips, and fruitworms.

- **Aim** (carfentrazone-ethyl), a contact herbicide that controls actively growing broadleaf weeds, is now registered for use in strawberries. A hooded sprayer application must be used to avoid possible drift to the berry plants. Aim has been registered for caneburning in raspberries and blackberries for the past few years but the new label now allows use with a hooded sprayer in caneberries for weed control. Aim is selective for broadleaf weeds and can be applied to the grass strip between caneberry rows for broadleaf weed control without damaging the grass.

Section 18 Registration

A Section 18 registration is a time-limited emergency registration granted by EPA which allows use of a pesticide in response to a pest outbreak that cannot be controlled with currently registered pesticides or management practices. Oregon was granted a Section 18 for strawberries for use of Sulfentrazone (Spartan 4F), a preemergence herbicide that is effective in for controlling broadleaf weeds that are not controlled with currently registered herbicides. The Section 18 is in effect from now until February 28, 2006 but can be used only during three distinct use periods: pre-plant, post-renovation and during dormancy. The full, permanent registration (Section 3) of Spartan is currently pending, as is Goal 2XL (oxyfluorfen), which controls a complex of weeds similar to Spartan.

Pending Registration Changes/Issues

- The REI (Restricted Entry Interval) for Bifenthrin (Brigade, Capture) insecticide/miticide, which is registered for use in caneberries and strawberries, has been reduced. It is now 12 hours.

- The 24c (state) labels for Galigan (oxyfluorfen) herbicide, which has been used for caneburning in caneberries, have been cancelled. However, the 24c labels for Goal, which has the same active ingredient and the same use pattern, are still in effect and valid.

- The 24c label for Clean Crop Supreme Oil for use in caneberries has been cancelled. However, caneberries can be found on other labels, such as BioCover MLT, PureSpray Green, and JMS Stylet Oil.

English/Russian Grower Workshop

- by Tom Peerbolt, Peerbolt Crop Management -

The commission tried out a new service for growers last month by sponsoring a cost free production-oriented workshop at the OSU North Willamette Research and Extension Station in Aurora. The purpose was to provide hands on practical information that can impact the bottom line this coming season as well as provide feedback from the processors on ways growers can improve their fruit quality at harvest time. Russian translations of some materials and an interpreter were also present to help communication.

There were about 35 attendees at the March 22nd afternoon workshop. Tom and Anna Peerbolt (Peerbolt Crop Management) were contracted to organize and run it. Zina Burkoff, a member of the Russian community, was also on hand to help with translation.

Crop management subjects included nitrogen fertilizing (Dr. Bernadine Strik, OSU), weed control options (Paul Borgen, Woodburn Fertilizer), Purple Blotch control (Diane Kaufman, OSU Extension) and insect management (Rufus La Lone, the JM Smucker Company and Tom Peerbolt).

Other topics included a panel of local processor representatives who discussed fruit quality and handling issues, a market update and a presentation of ORBC promotional activities by Cat McKenzie of Berry Works.

The follow up discussions with participants indicate that they found the workshop very useful and timely. An idea heard from some of the participants was that, while this format worked well, they would also like to hear growers talking more from their own experience as well finding ways to increase grower attendance at any future workshops.

The commission is going to be looking at the practicality and value of doing more workshops. Questions to be answered include: 1) Is this a good use of assessment funds? 2) Should the translation of materials and use of translators (Russian and/or Spanish) at workshops be continued or expanded? 3) Is the spring timing right or would a fall workshop be better? 4) What other topics should be included? 5) Should workshops be held in other locations to make them more convenient to growers not in the Aurora area?

Berry Commissions News

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OSC E-Mail: reachus@oregon-strawberries.org



We are looking for berry growers who want to grow with our company

Located in Vancouver, Washington Firestone Packing Company has been processing for 20 years. We process Strawberries, Red Raspberries, Black Raspberries, Marion Blackberries, Chesters, Loganberries, Boysenberries, and Blueberries.

We pay competitive pricing and have a very flexible pay schedule

We can haul empty flats directly to your farm in a refrigerated trailer and haul them from the field after they are full. We have a fleet of trucks and trailers, as well as a large supply of flats. We also have a receiving station in Woodburn/Hubbard area; whichever option you prefer.

Any growers interested in expanding their markets with Firestone Packing Company can contact us at 360-695-9484 or Sales@FirestonePacking.com



Berry News



~ Newsletter Ads ~

The Berry Commissions News accepts advertisements and inserts on a first come, first served basis. Space is limited. Ad size is a maximum of 1/4 page and inserts are generally limited to one 8 x 11 inch sheet. Ad space in the newsletter is currently free of charge. Printing costs do apply for inserts and must be paid by the advertiser in advance. All ads and inserts must be relevant to the berry industry and are subject to approval. Inserts must be prepared and ready for printing by the advertiser.

Raspberry & Blackberry News

Berries and Heart Health Message Delivered to Media and Manufacturing

-by Cat McKenzie, Berry Works, Inc. -

The Oregon Raspberry & Blackberry Commission (ORBC) has sent out the sixth in its series of messages on berries and human health. The newest message deals with the beneficial effect that berries in the diet can have on the heart. The message was sent to media editors in the fields of health & wellness and food. A separate revised form of the message was mailed to R&D personnel at manufacturing contacts across the country.

Health & wellness editors have a strong interest in heart health, since it is the number one cause of death worldwide and kills over 17 million people annually. Food editors are focusing more and more on heart healthy recipes and will be glad to see the facts about berries and health outlined in this message. A special version of this message, directed to the manufacturing sector, will be sure to get attention from professionals in the product development field. Functional foods (foods which provide more than just nutrition) is the fastest growing segment of the food industry today with major producers such as General Mills and Procter and Gamble, looking for ways to add nutrients to existing products; as well as, creating new products that target this booming marketplace.

The message outlines the most recent studies on heart health and foods. A major study done by the USDA on the top twenty antioxidant foods puts berries in six of the top ten slots. Antioxidants in the diet are an important part of fighting heart diseases, such as stroke, arteriosclerosis, heart attack, and high cholesterol.

Fiber and berries are discussed in relation to heart health. Berries are extremely high in fiber; in fact one cup of blackberries contains more fiber than a serving of bran cereal. Recent findings from two long-term, large scale studies of men suggest that high fiber intake can significantly lower the risk of heart attack. Men who ate a high fiber diet suffered one-third fewer heart attacks than those with a low

Notice of Public Meeting

Oregon Raspberry & Blackberry Commission
Proposed Budget

The Proposed Budget is Published on Page 9

As required by ORS 576.416, the Oregon Raspberry & Blackberry Commission (ORBC) will hold a public meeting for the purpose of receiving comments on the Commission's proposed budget for the next fiscal year.

DATE: Wednesday, May 11, 2005

TIME: 5:30 p.m.

**PLACE: Sweetbrier Inn & Suites
7125 SW Nyberg St
Tualatin, OR 97062**

Copies of the proposed budget are available for public inspection at the commission office, 4845 B SW Dresden Ave., Corvallis, OR 97333. In addition, the proposed budget is available on-line at www.oregon-berries.com

At the meeting, any producer of the commodity for which this commission was created may comment on the proposed budget.

The meeting location is accessible to persons with disabilities. A request for an interpreter for the hearing impaired or for other accommodations for person with disabilities should be made at least 48 hours before the meeting to 541-758-4043, TTY 503-986-4762.



2005 Berry Health Benefit Symposium Update

- by Cat McKenzie, Berry Works, Inc. -

The Oregon Raspberry & Blackberry Commission (ORBC) continues work on the upcoming Berry Health Benefits Symposium, which will be held June 13-14, 2005 at the La Sells Stewart Center on the campus of Oregon State University.

This event, which is jointly presented with the OSU Department of Food Science and Technology, The Linus Pauling Institute and the US Highbush Blueberry Council, will offer an outstanding line up of international researchers who will discuss the impact that berries have on human health and wellness.

A list of confirmed speakers includes:

Ron Wrolstad, Oregon State University
Luke Howard, University of Arkansas
Ron Prior, University of Arkansas

Mary Ann Lila, University of Illinois
Wilhelmina Kalt, Agriculture and Agri-Food
Canada
Marina Heinonen, University of Helsinki
F.A. Tomas Barberan, CEBAS (CSIC), Murcia,
Spain
Shiow Y. Wang, USDA-ARS Fruit Laboratory,
Beltsville, MD
Lyndon L. Larcom, Clemson University
Gary Stoner, Ohio State University
Laura Kresty, Ohio State University
Bruce Casto, Ohio State University
Rui Hai Lui, Cornell University
Tony K. McGhie, The Horticulture and Food Re-
search Institute, New Zealand
James Joseph, USDA Human Nutrition Re-
search Center on Aging, Tufts University
Sepp Porta, University of Graz, Austria
Amy Howell, Rutgers University

For further information or to register online for the 2005 Berry Health Benefits Symposium you can visit the event website at: <http://oregonstate.edu/dept/foodsci/berryhealth.htm>.



ORBC 2005-2006 Proposed Research Budget

1. Assessing the Contribution of Biological Control of Leafroller Management Programs in Caneberries
\$9,879
2. Caneberry Pesticide Registration and Tracking
\$8,000
3. Improving Percent Bud Break in Red Raspberries
\$2,600
4. Improving Cold Temperature Protection of Marion Blackberries with Surround
\$2,700
5. Evaluation of Processing Quality of Advanced Caneberry Breeding Selections
\$2,500
6. Development of a Sex Attractant or Control and/or Monitoring of the Raspberry Crown Borer, *Pennisetia marginata*
\$2,500
7. Production Systems for Extended Season Fresh Blackberries
\$11,753
8. Cooperative Breed Program—Caneberries
\$8,000
9. Irrigation Management Practices for Better Root and Fruit Rot Control in Red Raspberry
\$6,500
10. Characterization and Detection of a Virus(es) Associated with Decline of Black Raspberry
\$6,000
11. Development of New Raspberry Cultivars for the Pacific Northwest
\$1,500
12. Expansion of a Weekly Email IPM Newsletter for Small Fruit Growers and Related Industry Personnel
\$1,000



Berries and Heart Health Message Delivered to Media and Manufacturing

- Continued from Page 4 -

fiber intake. This result was seen even without the men giving up smoking, participating in more exercise or eating less saturated fat. Eating a diet rich in berries will clearly increase fiber intake, thus lowering the risk of heart attack.

Quercetin, another berry phenolic, protects the heart against the damage caused by LDL cholesterol, the so called "bad cholesterol". A study using berries showed that eating approximately one-half cup of berries daily for eight weeks caused blood levels of quercetin to rise between 32% and 51%.

Folic Acid also protects the heart and is found in high levels in blackberries that contain 34mcg of folate per one half cup. The American Heart Association recommends that adolescents and adults with a family history of heart disease get 150-400 mcg of folic acid in their diet by eating fruits and vegetables daily rather than taking supplements.

Cholesterol is a well-known factor in heart disease and high cholesterol can be difficult to prevent. Studies at the University of California at Davis showed that blackberries reduced LDL cholesterol by 84% and red raspberries reduced cholesterol by 79%.

Salicylic acid, the active ingredient in aspirin, can reduce the risk of heart attack by 32%. Many people take a small baby aspirin a day to help lower their risk of heart attack and stroke, but aspirin can be damaging to the stomach and liver. Berries, on the other hand, are safe for digestion and contain high levels of salicylic acid.

It will be easy for consumers, R&D professionals, media, and everyone who reads the ORBC's newest message to see that one important part of a heart healthy diet is berries. Either frozen, fresh, pureed or in juices, berries are sure to be on everyone's top list of foods for a healthy heart.

The full version of latest ORBC message on berries and heart health, which includes a complete bibliography of the studies used, will soon be available on the ORBC website www.oregon-berries.com. For more information you may contact the ORBC offices at 541-758-4043.



Southern Media Tour

- by Cat McKenzie, Berry Works, Inc. -

The Oregon Raspberry & Blackberry Commission's (ORBC) Marketing Director, Jan Schroeder, traveled to Birmingham, Alabama in March to meet with editors from a number of magazines, which are subsidiaries of Time Inc. During the trip, Jan met with the editors of Health Magazine, Southern Living Magazine, Cottage Living Magazine, and Cooking Light.

Editors were presented with a gift bag containing Oregon berry products, a copy of the newest berry cookbook, The Berry Bible by Janie Hibler, and a media packet of information on Oregon berries. Prior to the visit, editors received a Marionberry pie from Willamette Valley Fruit Company's delicious line of fresh and frozen pies. Editors also received a container of IQF Oregon berries so that they could taste the wonderful goodness of our berries and test them in recipes for possible use in their magazine.

Jan met individually with each editor to address the interests of their particular magazine. She told them about national availability of Oregon berries; as well as, their exceptional health benefits and wonderful taste. She was able to show many ways that Oregon berries would appeal to their readers, including sharing a newly developed technique on how to defrost berries in the microwave. For information on this technique go to the ORBC website and look under Berry Data Sheets for the sheet called "Quick Defrost".

Several editors have already expressed interest in upcoming articles and the ORBC staff is working with them to meet those goals. We look forward to seeing some great articles this year.



Ad Hoc Committee Formed to Explore Marionberry Regional Name Protection

The term “Marionberry” has been utilized to promote Oregon’s Marion Blackberries for many years. Because they are grown almost exclusively in Oregon, have significant acreage and production numbers, and are a premium quality berry, the Oregon Raspberry & Blackberry Commission (ORBC) has focused a considerable portion of their promotion efforts on the Marionberry. The commission’s efforts to make “Marionberry” a household name have paid off in many ways including numerous blackberry & Marionberry articles and recipes in major food magazines, extensive press outreach, and a national promotion partnership with Orange Julius introducing Marionberries and promoting berry health benefits. The ORBC has even developed a website dedicated exclusively to Marionberries - www.marionberries.com.

With all the success that the commission and the Oregon caneberry industry has had in developing name recognition for the Marionberry, there are concerns that these efforts could be taken advantage of by international or even national competition at some point in the future. The ORBC would like to do everything possible to ensure that growers of Marionberries in Oregon remain the primary beneficiaries of the promotional efforts that they have contributed funds for. To that end, the ORBC has formed an ad hoc committee to explore the options for protecting the name “Marionberry”. Several key topics being discussed include 1) Name Protection – how can we ensure that only true Marionberries are being represented and sold as such, 2) Regional Protection – what avenues are there to explore for defining the Pacific Northwest as the exclusive region for using the name “Marionberry”, and 3) Labeling Issues – how to guarantee that packaging labeled “Marionberries” actually include them in those products.



Raspberry & Blackberry Grower Survey

In November, the Oregon Raspberry & Blackberry Commission conducted their grower survey as required by Senate Bill 854. There were 530 surveys mailed and 59 returned (11%). There were three questions that all Oregon commodity commissions were required to ask.

The first question asked was “How effective do you think the Commission’s Research, Promotion, & Education programs are?” Twelve percent felt the programs were very effective, 41% felt they were effective, 22% said they were somewhat effective and 14% felt they were not effective. Eight percent had no opinion and 3% said they were not familiar with the programs.

The second question asked “As a state agency, the Commission is overseen by the Oregon Department of Agriculture (ODA). Senate Bill 854 now requires ODA approval of promotional and research plans and projects. To strengthen legal protection for the commission, do you support this ODA approval process?” Forty seven percent supported the process, 31% did not, 14% had no opinion and 8% were not familiar with the issue.

The third question asked “Producers of caneberrries are required by state law to pay an assessment for their commodity to the Oregon Raspberry & Blackberry Commission. The Commission funds a variety of projects including research, promotion and education. Making assessments voluntary may be one way to protect the Commission from free-speech related challenges. Should the Commission seek a state legislative change to allow producers to request refunds of all or part of an assessment? (This may lead to reduced revenues for commission programs.)” Fifty nine percent were opposed to a state legislative change, 32% supported it, 7% had no opinion and 2% were not familiar with the issue.

The ORBC commissioners would like to have seen a bigger return, but were satisfied with the results. The commission felt encouraged that the majority of respondents were in support of the ORBC and its programs, and it was noted that doing more outreach to the growers should continue to be a priority.



2004-2005 Oregon Raspberry & Blackberry Commission Commissioner List

Wayne Bochsler 13705 Monitor Mckee Rd NE, Mt. Angel, OR 97362	503-634-2126
*George Crispin PO Box 6109, Salem, OR 97304	503-363-4293
Dave Dunn 2994 82 nd Ave NE, Salem, OR 97305	503-362-8678
Leonard Heidt 6563 Otter Lane NE, Mt. Angel, OR 97362	503-951-0257
Phil Lavine – Public Member Chemeketa Community College 4000 Lancaster Drive NE, Salem, OR 97309-7070	503-399-5089
Julieann Schedeen PO Box 172, Boring, OR 97009	503-658-5769
Jerry Stratton 37661 SE Bear Creek Road, Boring, OR 97009	503-668-9674
Pieper Sweeney 860 Ferry St., Dayton, OR 97114	503-864-2656
Tony Wurdinger 1035 Tierra Lynn Dr., Woodburn, OR 97071	503-868-7154
Chairman – Tony Wurdinger Vice-chairman – Julie Schedeen	
* Processor Representatives	

2004-2005 Oregon Raspberry & Blackberry Commission Committee List

Budget Committee

Tony Wurdinger, Chair
Julie Schedeen
George Crispin
Leonard Heidt

Promotion Committee

George Crispin, Chair
Pieper Sweeney
Phil LaVine
Wayne Bochsler

Legislative/Labor/Education Committee

Tony Wurdinger, Chair
George Crispin
Pieper Sweeney
Phil LaVine

Promotion Committee

Julie Schedeen, Chair
Dave Dunn
Wayne Bochsler
Jerry Stratton
Tom Peerbolt – ex officio

OREGON RASPBERRY & BLACKBERRY COMMISSION

	ACTUAL BUDGET 2003-04	APPROVED BUDGET 2004-05	ESTIMATED EXPENSES 2004-05	PROPOSED BUDGET 2005-06
<u>SUMMARY OF REVENUES</u>				
Assessments	\$352,569.66	\$361,140	\$452,000	\$424,200
Interest income	1,361.47	1,500	1,700	1,500
Other Income	196.79	0	1,000	0
Grant Income	0.00	500	0	0
TOTAL REVENUE	354,127.92	363,140	454,700	425,700
Carryover/Begin. Cash Balance	143,006.09	180,000	173,506	230,000
Available for Fiscal Year	497,134.01	543,140	628,206	655,700
Expenditures	497,134.01	543,140	628,206	655,700
Ending Cash Balance	\$0.00	\$0	\$0	\$0
<u>SUMMARY OF EXPENDITURES</u>				
Materials & Services	\$87,655.70	\$88,550	\$88,577	\$92,350
Special Payments	230,721.81	289,890	303,011	306,850
Capital Outlay	0.00	0	0	0
Emergency Fund	173,505.50	159,200	230,256	250,000
ODA Oversight	5,251.00	5,500	6,361	6,500
Total Budget	\$497,134.01	\$543,140	\$628,206	\$655,700
<u>MATERIALS & SERVICES</u>				
Materials & Supplies	\$7,452.83	\$8,000	\$8,000	\$8,000
Communications	10,048.06	5,500	5,500	5,500
Travel & Admin. Travel	1,522.68	1,500	1,500	1,500
Meals & lodging	5,114.05	3,000	3,000	3,500
Freight & postage	4,040.60	5,500	5,500	6,000
Insurance & Bonds	256.97	300	327	350
Auditing fees	0.00	2,000	3,000	3,000
Auditing fund	0.00	0	0	0
Legal fees	4,160.51	4,000	3,000	4,000
Other Purchased Services	60.00	1,000	1,000	1,000
Administrative Services	55,000.00	57,750	57,750	59,500
Total Materials & Services	\$87,655.70	\$88,550	\$88,577	\$92,350
<u>SPECIAL PAYMENTS</u>				
Promotion	\$186,136.05	\$212,890	\$226,679	\$213,850
Newsletter/World Stats	0.00	0	0	0
Research	30,188.00	50,000	50,225	66,000
Education	1,656.71	6,500	5,607	6,500
Legislative Education	12,731.55	20,500	20,500	20,500
Assessment Refund	9.50	0	0	0
Total Special Payments	\$230,721.81	\$289,890	\$303,011	\$306,850
CAPITAL OUTLAY	\$0.00	\$0	\$0	\$0
ODA MGMT. FEE	\$5,251.00	\$5,500	\$6,361	\$6,500
EMERGENCY FUND	\$173,505.50	\$159,200	\$230,256	\$250,000
GRAND TOTAL BUDGETED	\$497,134.01	\$543,140	\$628,206	\$655,700



Oregon Entomologist: More bees mean higher yields

- by John Schmitz -

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The Fruit Growers News
www.fruitgrowersnews.com

One Oregon entomologist said Northwest fruit growers will have happier, more profitable harvests if they simply bring in more workers during bloom – more worker honeybees, that is. “Berry growers don’t use enough bees,” said Rufus La Lone, an entomologist who is the fruit procurement manager for Scenic Fruit Co. of Gresham, Ore.

Subsequently, fruit is not being developed as fully as it could be, which effects not only size and appearance but weight as well.

Up until the late 1980’s Northwest fruit growers depended mainly on feral honeybees to provide the bulk of the pollination, with commercial hives brought in by some orchardists and berry growers only as a supplemental source of pollinators, La Lone said. But two parasites, the tracheal mite and, more specifically, the varroa body mite, have drastically changed all that. Over the last 15 or so years, feral honeybee populations have all but vanished because of the mites. The only bees surviving are those that are managed by commercial beekeepers employing miticides. Despite this fact, some fruit growers still depend on free feral bees to visit their crops, La Lone said, adding that those bees are actually not feral at all but bees that carry a death sentence themselves. “The only feral bees you see now are basically ones that have swarmed out of cultivated commercial hives,” La Lone said. “They might survive for a year or so out in the feral and then they die (at the hands of the mites.)”

La Lone, who holds a master’s degree in entomology from Oregon State University and has been working with berries for 26 years, was one of several featured speakers at the annual meeting of the Oregon State Beekeepers Association on the coast. Having walked through thousands of acres of raspberry, blueberry, blackberry, Boysenberry and strawberry fields during pollination, he described

Notice of Public Meeting

Oregon Strawberry Commission
Proposed Budget

The Proposed Budget is Published on
Page 13

As required by ORS 576.416, the Oregon Strawberry Commission (OSC) will hold a public meeting for the purpose of receiving comments on the Commission’s proposed budget for the next fiscal year.

DATE: Wednesday, May 4th, 2005

TIME: 6:00 p.m.

**PLACE: Alessandro’s 120
120 Commercial St NE
Salem, OR 97301**

Copies of the proposed budget are available for public inspection at the commission office, 4845 B SW Dresden Ave., Corvallis, OR 97333. In addition, the proposed budget is available on-line at www.oregon-strawberries.org.

At the meeting, any producer of the commodity for which this commission was created may comment on the proposed budget.

The meeting location is accessible to persons with disabilities. A request for an interpreter for the hearing impaired or for other accommodations for person with disabilities should be made at least 48 hours before the meeting to 541-758-4043, TTY 503-986-4762.



Oregon Entomologist: More bees mean higher yields

- Continued from Page 10 -

the disappearance of feral honeybees and their familiar, welcome hum as “silence of the bloom.”

La Lone said while some caneberries, such as raspberries, are self fertile, this shouldn't be taken to mean they can produce a good, robust crop on their own. All it means is that the berries are able to regenerate themselves in a limited manner and not in sufficient quantity to constitute a profitable crop. Only berry flowers that are pollinated to the max by numerous visits from bees will produce a large, ideally-shaped berry with its full complement of droplets, La Lone said. He cited one university study that shows without honeybees, raspberries produce 70 percent fewer droplets per berry. “We have to pay attention to our pollinators because they play such a vital role in a lot of the food we eat and all the new medicines,” he said.

La Lone said berry growers still manage to grow a halfway decent crop without bringing in outside bees because there are always other insects, such as bumblebees and commercial bees from neighboring fields, that handle pollination to a limited extent. He said it's difficult to recommend just how many bee colonies to bring into an operation since geography, soils, bees coming over from neighboring crops and weather also play a role in fruit set. “They should have at least two to five per acre,” La Lone said, adding the average fruit grower could probably more than pay the \$30 to \$35 per hive to bring in an extra colony or two. “I think there's a value there higher than growers realize.” La Lone said compared to other caneberries, raspberries have much heavier nectar flows and thus allow bees to produce more honey. For that reason, bees will often bypass other crops and head for raspberries. Compared to other fruit crops, caneberries in general have much shorter pollination windows, said La Lone, with raspberry blooms present less than a week and flowers sexually active for only two days to three days. “You've only got a couple days and you want to get five to ten (bee) visits to get a fairly decent development of that berry,” he said.

One acre of raspberries will produce about 3 million blooms over a 21-day period. La Lone encouraged growers to visit their fields when bees arrive and, with the help of the beekeeper, randomly inspect a few hives for bee numbers prior to the start of pollination. A healthy hive should contain 45,000 bees to 60,000 bees. As for the best placement of hives, he said growers should trust beekeepers. “We have learned that palletizing hives makes them more competitive with each other,” La Lone said. “You get better foraging activity when the hives are clustered together versus being spread out.”



Pesticide Registration Update for Caneberries and Strawberries

- Continued from Page 2 -

• **Guthion** (azinphos-methyl) has recently undergone review at EPA and there are significant changes to the label. (Bayer has already re-issued a new Guthion Solupak label that eliminates foliar uses in caneberries and all use in strawberries.) Under the revised label, caneberry growers have been allowed to use Guthion as a drench application (soil and lower portion of canes) for control of the raspberry crown borer. But that use was granted only until December 2005. With that deadline fast approaching I have, on behalf of the ORBC, petitioned EPA to extend the deadline until a suitable alternative to Guthion for control of the raspberry crown borer can be found (research is currently in progress). We are hopeful that they will look favorably upon our request for an extension. Recent research, and grower testimony, indicate that even at the new, lower use rate of 0.5 lb ai/A, azinphos-methyl can effectively control raspberry crown borer larvae. Diazinon was cancelled for use in caneberries in the eastern USA but is still registered for use in caneberries in Oregon (and Washington) and is also very effective in controlling the raspberry crown borer.

• **Diazinon**, which is labeled for use in caneberries and strawberries for control of many different insect pests, is undergoing significant label changes. All aerial applications, except lettuce, have been deleted from the label. The new engineering controls statement on the front of the label states that a closed loading system must be used when loading liquid formulations into the spray tank, and that a closed cab must be used for all applications with ground equipment (this restriction is currently being challenged). Due to inhalation and dermal exposure concerns, there are now specific instructions on the label about the type of personal protection equipment that must be worn when loading and applying diazinon. The REI has been changed: it is now five days for caneberries and three days for strawberries. (The PHI has not been changed; it remains at seven days for the berry crops.) Another significant change is in the number of applications per season that is allowed. For caneberries, only one application per season will be allowed, and the only pests that remain on the label are the raspberry crown borer and the raspberry fruitworm. Two applications will be allowed in strawberries. Changes to diazinon labels are currently in progress; in the interim, old product and old labels can still be used.



2004-2005 Oregon Strawberry Commission Commissioner List

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*Ronald Fujii 6000 SW Minter Bridge Road, PO Box 132, Hillsboro, OR 97123	503-640-2313
Stan Herr 9631 Selah Springs Rd, Silverton, OR 97383	503-873-8063
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Ron Vandecoevering 11607 Baron Rd, Mt. Angel, OR 97362	503-845-9490
Ken Kraemer 12614 Dominic Road, Mt. Angel, OR 97362	503-845-2489
Chairman – Ron Fujii	
Vice-Chairman – Ken Kraemer	
Secretary/Treasurer – Ron Vandecoevering	
* Processor Representatives	

2005-2006 Proposed Research Budget

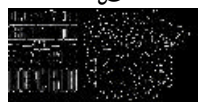
1. Strawberry Pesticide Registration and Tracking
\$6,000
2. Evaluation of Selected Post-Emergence Herbicides for Use in Strawberries
\$12,650
3. Evaluation of Promising Weed Control Strategies in Strawberries
\$8,792
4. Comparison of Aliette and Fosphite for Efficacy Against Red Stele
\$5,995
5. Cooperative Breeding Program—Strawberries
\$4,000
6. Evaluation of Processing Quality of Advanced Strawberry Breeding Program
\$2,500
7. The Role of Viruses in Strawberry Decline, is Root Rot Being Blamed for Decline Caused by Viruses?
\$5,000
8. Development of New Strawberry Cultivars for the Pacific Northwest
\$4,000
9. Development of Sampling and Insecticidal Tactics for the Rational Control of Rough Strawberry Root Weevil in Strawberry
\$5,190
10. Expansion of a Weekly Email IPM Newsletter for Small Fruit Growers and Related Industry Personnel
\$1,000

OREGON STRAWBERRY COMMISSION

	ACTUAL BUDGET 2003-04	APPROVED BUDGET 2004-05	ESTIMATED BUDGET 2004-05	PROPOSED BUDGET 2005-06
<u>SUMMARY OF REVENUES</u>				
Assessments	\$125,568.78	\$123,750	\$98,069	\$103,500
Interest income	756.33	1,000	1,000	1,000
Other Income	0.00	0	0	0
Grant Income	0.00	0	0	0
TOTAL REVENUE	126,325.11	124,750	99,069	104,500
Carryover/Begin. Cash Balance	117,884.96	85,000	111,595	80,000
Available for Expenditure	244,210.07	209,750	210,664	184,500
Expenditures	244,210.07	209,750	210,664	184,500
Balance Carried Forward	\$0.00	\$0	\$0	\$0
<u>SUMMARY OF EXPENDITURES</u>				
Materials & Services	\$44,458.95	\$48,785	\$48,785	\$50,400
Special Payments	\$85,072.00	\$102,002	\$77,227	\$85,627
Capital Outlay	\$0.00	\$0	\$0	\$0
Emergency Fund	\$111,595.12	\$55,963	\$81,903	\$45,473
ODA Oversight	\$3,084.00	\$3,000	\$2,749	\$3,000
Total Budget	\$244,210.07	\$209,750	\$210,664	\$184,500
<u>MATERIALS & SERVICES</u>				
Materials & Supplies	\$3,663.45	\$4,000	\$4,000	\$4,000
Communications	2,200.89	2,500	2,500	2,500
Travel (in state)	738.83	600	600	600
Travel (out of state)	3,203.78	3,000	3,000	3,000
Meals & lodging	2,333.23	2,000	2,000	2,500
Freight & postage	1,822.39	2,500	2,500	2,500
Insurance & Bonds	226.78	300	300	300
Auditing fees	0.00	1,500	1,500	2,500
Legal fees	684.60	1,500	1,500	1,000
Other Purchased Services	85.00	500	500	500
Administrative Services	29,500.00	30,385	30,385	31,000
Total Materials & Services	\$44,458.95	\$48,785	\$48,785	\$50,400
<u>SPECIAL PAYMENTS</u>				
Promotion	\$30,800.00	\$40,800	\$15,800	\$30,000
Research	\$54,272.00	\$61,202	\$61,427	\$55,127
Legislative/Education	\$0.00	\$0	\$0	\$500
Assessment Refund	\$0.00	\$0	\$0	\$0
Total Special Payments	\$85,072.00	\$102,002	\$77,227	\$85,627
CAPITAL OUTLAY	\$0.00	\$0	\$0	\$0
ODA MGMT. FEE	\$3,084.00	\$3,000	\$2,749	\$3,000
EMERGENCY FUND	\$111,595.12	\$55,963	\$81,903	\$45,473
GRAND TOTAL BUDGETED	\$244,210.07	\$209,750	\$210,664	\$184,500



Berry Commissions News
Pacific Northwest Administration
4845 B SW Dresden Avenue
Corvallis, OR 97333



2005 CM1162