

The Bee Line

Newsletter of the Oregon State Beekeepers Association

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1994

Results of OSU's 1993 pollination survey

By Michael Burgett
Department of Entomology
Oregon State University

The honeybee continues to play a critical role in agricultural production. The importance of managed pollination will be even more important in future years as several factors will likely reduce the overall number of honeybee colonies available for pollination rental.

A knowledge of current pollination economics is important all beekeepers involved in colony rental and to growers of crops that require honeybee pollination. Once again, the results from the 1993

survey point out the vital importance of honeybee pollination to agricultural production in Oregon.

The survey was sent to all beekeepers who register more than 25 colonies with the Oregon Department of Agriculture. Thirty-nine surveys were returned. The 19 commercial beekeepers ... defined as owning more than 300 colonies ... who responded collectively owned 18,850 colonies. This is approximately 55 percent of all registered commercial colonies in Oregon.

The total number of registered colonies

owned by all respondents to the survey was 20,640.

A total of 57,939 rentals was reported. These produced a rental income of \$1,302,051!!!!

The average pollination fee was \$22.50, which is a 17 percent increase from 1992 (See Table 2). Commercial beekeepers continue to be responsible for by far the greatest part of pollination rental: Commercial bee colonies accounted for 94 percent of all rentals and 96 percent of all rental income.

New for this year's survey was the inclusion of almond pollination in California. In past years the survey has concerned itself only with crops grown in Oregon.

However, as is apparent, the "California Run" for almond pollination is vitally important for Oregon's commercial bee industry. As shown in Table 1, almond pollination income represents 33 percent of reported pollination income for the Oregon beekeepers who responded to the survey.

Continued on page 3

Survey Review

A total of 39 beekeepers returned survey forms:

- 19 Commercial (>300 hives) owning 18,853 colonies
- 20 Sideline (<300 hives) owning 1,787 colonies

The average per colony pollination rental fee (for all beekeepers, for all crops including California almond pollination) for 1993 was:

\$22.50

The average commercial beekeeper rented each colony 2.9 times in 1993 for an average per hive rental income of \$65.25 (this includes pollination of almonds in California.)

The average sideline beekeeper rented each colony 1.9 times in 1993 for an average per hive rental income of \$42.75 (very few sideline colonies went to California.)

For the surveyed beekeeping operations, 94% of all pollination rentals were conducted by commercial beekeepers, who also accounted for 96% of all reported pollination income.

The average commercial bee operation maintained 990 colonies and grossed \$64,600 in pollination rental income for 1993.

The average sideline bee operation maintained 90 colonies and grossed \$3,850 in pollination rental income for 1993.

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1-503-926-0443

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Salem, Oregon 97304
1-503-364-8401

The Bee Line, official publication of the Oregon State Beekeepers Association, is published ten times a year. Subscriptions are included with OSBA membership.

Send news items, announcements, letters and advertising to:

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Editor's comments and briefs about beekeeping

1993 convention at Lincoln City: President John Mespelt of Albany and Secretary Phyllis Shoemake of Salem were re-elected. North Albany beekeeper Dirk Olsen was elected vice president. Members approved by-laws change: *One dollar (\$1) of dues collected for membership in OSBA may be retained by the branch association; the remainder to be forwarded to the state association secretary-treasurer.*

Tualatin branch elects: Bill Ruferer is president of the Tualatin Valley Beekeepers Association; Jim Marshall is vice president; Lew Wolf, secretary, and PattiJo Campbell, treasurer. Someone said this branch was inactive, but not so: Members meet at 7:30 p.m. on the second Wednesday each month. For more information, write: Bill Rufener, Tualatin Valley Beekeepers, 39100 N.W. Banks Road, Banks, Or. 97106.

Southern Oregon: Rob Behrend and Lynne Behrend continue as president and secretary, respectively. John Campbell is the vice president. The branch meets at 7:30 p.m. the first Monday each month.

For more information, call Rob or Lynne, 1-503-664-4867.
Other branch associations: Please send names of 1994 officers and information about meeting times and places as soon as possible. to: The Bee Line, 1033 Gibson Hill Road N.W., Albany, Or. 97321.

Federation convention: Purity of honey in the marketplace and competition of U.S. honey in the world market are among topics to be presented at the annual convention of the American Beekeeping Federation in Orlando, Fla. Oliver Petty of Albany and Morris X. Smith of Toledo will serve as Oregon delegates to the Jan. 18-23 meeting.

The delegates should give a report at OSBA'S spring meeting. Keynote convention speaker Bobby McKown, executive vice president of the Florida Citrus Mutual, will talk about battles of Florida's citrus industry against adulteration of citrus products and imports. The beekeeping industry faces the same problems. Many citrus growers are turning to specialty fruits and the industry is policing purity issues. Coping - - and expecting to cope - - with the Africanized honeybee is also on the agenda, along with special interest workshops and a field day to a local beekeeper's shop. (This writer plans to attend and will spend a little time at nearby Disney World and Epcot Center.

Buggy professor: Michael Burgett, referred to as a "buggy professor," was recently featured in a page 1 article of the Corvallis Gazette-Times. Beekeepers may claim Mike as their *apiculturist* but his "Entomology 300: Plagues, Pests and Politics" class is a popular offering at Oregon State University. Mike's students learn that: Five-sixths of all named animals are insects; insects live on everyone's body, all the time; an average of 400 pounds of insects thrive on each acre of the Willamette Valley, and one million insects are crawling, flying or breeding on the Earth right now. Photographs showed a student holding a Madagascar Giant Hissing Cockroach, and what photographers call a "mug shot" of Burgett.

Me and my Mac: When I bought my computer in May 1992, I took a course to learn how to operate it. It was similar to the word processor I had used at the Democrat-Herald, but not quite. My friend Jim Tolbert, a teacher at Linn-Benton Community College, gave me a book entitled "The Little Mac Book" which has all the answers. However, it's easier to call Jim but he keeps saying I must take "page making" and learn how to place articles in columns. I tried and tried to make these sentences come out even. (I'm signing up for page-making tomorrow).

Connie Petty

Honey & bee: Where and how we got the words

Honey & Bee:

Where and how we got the words

By The Bee Line Editor Connie Petty
(Who likes to know *what* words mean)

Our Indo-European ancestors were very fond of honey, and their word for it, based on *melit-* is found in many modern European languages, such as the French and Spanish *miel*, Italian *miele*, and Welsh *mel*. (Welsh is a language of its own ... perhaps some Welshman took a trip across the channel..)

The Germanic languages, however ... which includes English ... have not persisted with this term except for *mead*, the wine made with honey. Their words for

honey include German *honig*, Dutch *honing*, Swedish *honung*, and Danish *honning*. The Old English word for honey was *hunig*, which became *hony* in Middle English.

One source I read says Old High German was *hanaga*, meaning golden, and another spelled it *honag*. This came from the prehistoric West and North Germanic *khunagom* or *khunanggom* may have originally described the color of honey. The word is also linked with the Greek *knekos*, meaning "pale yellow" and Sanskrit *kancana*, which means "golden."

The word "bee" comes from the Old English word *beo* which came from the prehistoric West and North Germanic *bion* - the source of the German *biene*, Dutch *bij*, and Swedish *bi*. This may all be traceable to

an Indo-European base *bhi*, which meant *quiver*.

If this is true, this means the bee was originally named as the *quivering* or perhaps the *humming* insect.

The Latin scientific name for the honeybee is *apis mellifera*. (Note the *mel*, which became *miel* in Spanish and French ... and other languages, too. Probably Portuguese.)

The Isle of Malta in the Mediterranean was first called *Melita*, meaning the "Island of Honey."

information gleaned from "Dictionary of Word Origins" by John Ayto; "Honey," a Bantam Library book by Jill Norman, and "Honey: From Hive to Honeypot" by Sue Style.

Table 1 1993 POLLINATION SURVEY SUMMARY

Crop	Number of Rentals	High - Low \$ Fee	Average \$ Fee	Total \$ Income	Number of Beekeepers
Pear	6,930	31 - 13	25.70	178,100	20
Sweet cherry	5,272	30 - 13	27.20	143,348	21
Apple	3,656	29 - 11	27.45	100,428	12
Berry ¹	2,585	25 - zero	13.60	35,220	15
Vegetable seed	6,713	35 - zero	29.50	198,491	17
Red Clover seed	5,246	32 - zero	10.90	57,268	8
Crimson Clover seed	3,936	10 - zero	0.60	2,380	11
Vetch seed	3,813	18 - zero	4.40	16,846	8
Radish seed	1,263	30 - zero	17.20	21,717	10
Cranberry	971	30 - 30	30.00	29,130	2
Blueberry	1,900	30 - 15	23.20	44,117	13
Cucumber	430	32 - 15	19.20	8,250	6
Squash & Pumpkin	790	30 - zero	20.60	16,270	7
Misc. ²	657	30 - zero	23.00	15,094	7
California Almonds	13,777	34 - 26	31.60	435,392	20
TOTAL	57,939 Rentals	Average Rental fee	\$22.50	1,302,051 Total Income	

¹Includes blackberries, raspberries, boysenberries, marionberries.

²Includes holly, kiwi, prunes, rape, turnip seed and watermelons.

(Survey Cont. from page 1)

* On a single-crop basis, almonds are responsible for generating the most pollination income.

* The in-state tree fruit industry - - apples, pears and sweet cherries - - accounted for 32 percent of all reported pollination income.

* Vegetable seed pollination - - primarily carrots and onions - - continues to be the largest in-state income source with 15 percent of pollination income.

Almond pollination had the highest average colony rental fee: \$31.60. For in-state crops, cranberries had an average rental fee of \$30 which was closely followed by vegetable seed pollination at \$29.50.

Interestingly, a few beekeepers are beginning to generate pollination rental income from crimson clover and vetch seed that have traditionally been crops for which the beekeeper charges no rental fee.

The "average" commercial bee colony was rented 2.9 times in 1993 and generated a rental income of \$65.25. The average non-commercial bee hive was rented 1.9 times for an income of \$42.75.

The average commercial beekeeping operation owned 990 colonies and had a gross pollination rental income of \$64,600. The average non-commercial operation had 90 colonies and a rental income of \$3,850.

For the "average" commercial beekeeper, pollination rental income accounted for 72 percent of total gross income for 1993. The non-commercial beekeeper's rental income represented 50 percent of total bee generated income.

Table 2 Average Pollination Fee 1986 - 1993

1986	1987	1988	1989	1990	1991	1992	1993
\$14.75	16.15	17.50	16.05	18.40	19.45	19.25	22.50



Oliver Petty's experience benefits Benton County 4-H beekeeping club

This article first appeared in the August 3, 1993 issue of 4-H Focus, a Benton County 4-H publication. Anna Eilers is a student at Crescent Valley High School in Corvallis and a member of a 4-H journalism club that publishes 4-H Focus. She interviewed Petty and also attended a meeting of the 4-H Honey Hustlers Beekeeping Club he has led since 1958.

By Anna Eilers

"Just like us, when their stomachs are full, they're easier to get along with," says Oliver Petty, a beekeeper and leader of the only 4-H beekeeping club in Oregon.

Petty, a commercial beekeeper for more than 30 years, has turned over his business, but continues to keep a few bees and operate the extraction equipment for the current owner.

Parked parallel to various towering stacks of beehives - - some full, some empty -- stands a flatbed truck, a hive loader sturdily mounted on the back.

Gesturing towards the truck, Petty comments, "Hive loaders and things like that are developments over the last twenty years; when I started some years ago, we did it all with muscle."

Then, reaching through an open window, he withdrew a smoker from the cab and paused a moment to light it before proceeding to a hive.

"The most important tool of the trade is the smoker; it does two things. The bees run and load up on honey. If they have to leave the hive, they get busy and try to fan it out. With all of this we're doing to them," Petty explains while lifting the lid from the hive, "they don't pay much attention to what we're doing to the hive."

Then, reaching in, ungloved, he loosens and extricates a rack of comb. The biggest cell, the queen cell, is "about the size of the end of your finger, like a peanut shape," Petty says, indicating one with his thumb.

Workers from the hive will feed the queen "royal jelly." The queen will hatch in only 16 days, as opposed to the 21 days for a worker bee who doesn't receive special treatment.

A mature queen bee will take one mating flight during her lifetime, when she will mate with and store the sperm of several drones. Once she returns to the hive, she will not mate again.

A mated queen has the ability to lay both fertile and unfertile eggs. The fertile egg will hatch a female, or worker bee, while an unfertilized egg will develop into a drone. Although studies have shown that drones supply a hive with moral support, the only real evidence of their value is during mating.

"He can't even take care of himself; the other bees have to feed him. When times get tough, the drones are the first to get kicked out of the hive; you'll seldom find them in the winter," Petty remarks.

In good times, the workers generally allow the drones to stay in the hive.

"They seem to like having a man around the house," says Petty. Regarding the drones after they mate with the queen, Petty says, "They're dead before they even hit the ground."

The queen bee is central to the unity of the hive. She gives off a hormone with a unique odor, and through currying and caring for the queen the colony's members will contract the same scent. They then prevent foreign bees, who lack this scent, from entering the hive.

The odor also prevents female worker bees from having the ability to lay eggs. If a queen bee somehow dies or is removed from the hive, a few workers will develop the ability to lay unfertile eggs. These eggs will produce only drones, so eventually the hive will die off.

When a hive becomes overcrowded, the queen bee will lead a group of bees to a new location in a phenomena called swarming. A few bees will stay in the old hive and raise a new queen bee.

In order to prevent swarming, beekeepers add supers, or shallow boxes, to the hive. The supers contain prestarted combs to give some order to the expansion. After the shallow boxes are stacked, the bees will raise a new brood and begin filling the chambers with honey.

In order to keep the honey from spoiling, the hive must stay in a sanitary condition. To maintain this neatness, the bees will carry off their dead and other small objects from the hive.

"What they can't clean out, they'll wax out," Petty says.

Occasionally a mouse will enter the hive while the bees are dormant in the winter. If the intruder hasn't found a new home by spring, the bees will kill it and mummify it, waxing it over to prevent it from contaminating the honey.

Bees have the ability to work together to accomplish a common goal.

As Petty reaches back into the hive to replace a comb, he brushes a bee resting on his thumb. It stings him but he proceeds, unfazed.

He shrugs and remarks, "That's just all part of the game — in a few hours you won't even be able to tell it's there."

"The most important fool of the trade is the smoker; it does two things. The bees run and load up on honey. If they have to leave the hive, they get busy and try to fan it out."

-- Oliver Petty

4-H beekeeping club: One of a Kind In Oregon

Oliver Petty, a retired commercial beekeeper, leads one of the most unique 4-H clubs in Benton County — in fact, Petty's 4-H Honey Hustlers is currently the only 4-H club of its kind in Oregon.

The members maintain a casual, informal atmosphere, and while much of the time is filled by an easy laughter, learning, too, plays its part. During meetings, presentations are given to help inform members about all aspects of beekeeping — from moving hives to extracting the honey from the combs. The club meets several times a month. Members each have their own hives to work with.

Anna Eilers

(Bee Line editor's note: 4-H Focus is published by a Benton County 4-H club led by Steve Lundeberg. Steve and I worked together at the Albany Democrat-Herald newspaper where he serves as sports editor. I think it's wonderful that he, like Oliver Petty, finds time to devote to youth while working fulltime. The extension service welcomes 4-H leaders. To volunteer, contact the office in your town.)

Are your dues due? Check address label. Fill out and send form on page 11 with check to OSBA secretary or pay dues to your local branch association. The information and dues will be sent to the state secretary. The state association and local branches need members. You need to belong to beekeeper associations to be aware of problems and research.

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Cooking Tips

- For best results, use recipes developed for using honey.
- When you substitute honey for granulated sugar in recipes:
 - substitute honey for up to one-half of the sugar. With experimentation, honey can be substituted for all the sugar in some recipes.
 - reduce the amount of liquid in the recipe by $\frac{1}{4}$ cup for each cup of honey used in baked goods.
 - add about $\frac{1}{2}$ teaspoon baking soda for each cup of honey used in baked goods.
 - reduce oven temperature by 25° F to prevent over-browning of baked goods.
 - for easy removal, spray measuring cup with vegetable cooking spray before adding honey.
- Honey adds a sweet, smooth and distinctive taste to recipes. Honey also absorbs and retains moisture. These qualities retard drying out and staling of baked goods.
- A 12-ounce jar of honey equals a standard measuring cup.
- Because of its high fructose content, honey has a higher sweetening power than sugar.

Buying and Storage Tips

- Select mildly flavored honeys, such as clover, for use in cooking where delicate flavors predominate.
- Use strongly flavored honeys in spreads or other recipes where a distinct honey flavor is desired.
- Store honey at room temperature.
- If honey crystallizes, remove lid and place jar in warm water until crystals dissolve. Or, microcook 1 cup of honey in microwave-safe container at HIGH (100%) 2 to 3 minutes or until crystals dissolve; stir every 30 seconds. Do not boil or scorch.

NOTE: Honey should not be fed to infants under 1 year of age. Honey is a safe and wholesome food for older children and adults.

Look for the Honey Bear logo on products containing a substantial amount of honey.



For more information on honey, contact: National Honey Board, 421 21st Avenue #203, Longmont, Colorado 80501 (303) 776-2337

British Columbia offers 1994 bee masters course

Ever thought of becoming a bee master? A master of keeping bees? Here's your opportunity: The Apiculture Program of the British Columbia Ministry of Agriculture and Fisheries offers such a title through the Department of Biological Sciences at Simon Fraser University at Burnaby.

This year's is scheduled Monday-Saturday, Feb. 14-29, at the main Burnaby Mountain campus of Simon Fraser. Burnaby is adjacent to Vancouver, B.C., Canada.

The Beemasters Course is an advanced course for those who have kept bees and had some knowledge about bees and beekeeping. The week-long, intensive course combines illustrated lectures, laboratory periods, social events and an optional final examination Saturday, Feb. 19. Topics include spring, summer and fall management, queen rearing, bee poisoning, bee behavior, hive products, removing and extracting honey, Africanized bees, bee brood diseases, pollination, exotic mites, and much more.

Guest lecturers will be Bill Wilson of the U.S. Department of Agriculture; John Gruszka, Saskatchewan Agriculture, and Don Nelson, Agriculture Canada. Local B.C. speakers include Dr. Mark Winston of Simon Fraser; Paul van Westendorp, B.C. Ministry of Agriculture and Fisheries (apiculture), and Doug McCutcheon of Phero Tech Inc.

The course is limited to 50 participants. There's a January 14 deadline for application. The cost is \$140 for U.S. beekeepers with a \$42 deposit. Write Conference Services, Continuing Studies, Halpern Centre, Simon Fraser University, Burnaby, B.C. V5A 1S6. For a quicker response, phone 1-604-291-4910 or 291-3649, or FAX 1-604-291-3420.

National Honey Board publishes first cookbook:

The National Honey Board has published its first cookbook. "Sweetened with Honey - - The Natural Way," will be available in February.

The cookbook, published and distributed by Publications International, will be sold at supermarket checkout stands throughout the country. The cost is \$2.95. Additional copies can be ordered from the National Honey Board.

"We want consumers to know that honey is more than a delicious topping for biscuits and toast," said Mary Humann, NHB marketing director.

The cookbook contains more than 100 recipes, from tangy salad dressings to entrees to desserts and features full-color photographs.

Beekeepers can obtain discounts on quantity orders. Write: National Honey Board, 421 21st Avenue No. 203, Longmont, Colo. 80501-1421. Or, call the honey board's new toll-free number: 1-800-553-7162.

Honey pot collectors club now an official organization

Honey Pots International, the organization for collectors of honey pots and other memorabilia associated with beekeeping, became an official non-profit organization in December 1993 during the fall OSBA convention at Lincoln City.

Founder Betty Ramsey of Salem was elected president/treasurer; and Connie Petty offered to serve as temporary secretary. Members of the board of directors are: Anita Alexander of Boring, Marge Ehry of Dundee, Joann Olstrom of Reedsport, Barbara Burns of Grants Pass, and Carol Keever of Montesanto, Wash.

Honey Pots International was formed during the Northwest regional beekeeping meeting in the fall of 1992 in Portland, Oregon. Through Betty's efforts and monthly newsletters, the organization now has 35 members. They live in Australia, Belgium, England, Israel, Latvia, The Netherlands, and throughout the United States.

The newsletter provides an exchange of information and honey pots among members. It has attracted members as well as exchanges between collectors, including a few that resulted in shipments of broken honey pots.

Anyone who collects honey pots, or is interested in the organization, is eligible to join. Currently, dues are based on the cost of mailing the newsletter, \$5 for U.S. residents and \$7.50 for those who live overseas. To obtain more information or join the collectors club, send a check to: Honey Pots International, 4455 Nevada St. N.E., Salem, Or. 97305

Who's Who...In The OREGON STATE BEEKEEPERS ASSOCIATION

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John Mespelt
1830 Queen Avenue S.W.
Albany, Or. 97321
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COMMITTEE CHAIRMEN

Honey promotion: Joann Olstrom
Nectar & pollen plants: Bertie Stringer
Pollination: Don Kelley
Laws & regulations: Fritz Skirvin
Oregon State Fair: Walt Nichol

APIARY ADVISORY BOARD

President

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Vice president

Bill Rufener, 1-324-2571

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Al Freeburne, 1-855-7243
DeWayne Keller, 1-889-8279
John Mespelt, 1-926-1850
Bob Morgan, 1-298-5719
Fred Van Natta, 1-585-8254

RESOURCE PEOPLE

State Apiary Inspector

Dave Turner
Oregon Department of Agriculture
635 Capitol Street N.E.
Salem, Or. 97320
Telephone 1-378-3774

Extension Entomologists:

Dr. Michael Burgett

Department of Entomology
Cordley Hall 2046
Oregon State University,
Corvallis, Or. 97331-2907
Telephone: 1-737-4733

Dr. Lynn Royce

Assistant/associate
Department of Entomology
Cordley Hall 2046
Oregon State University
Corvallis, Or. 97331-2907
Telephone: 1-737-4733

REGIONAL BRANCH ASSOCIATIONS

Officers and meetings

Coos County

Meets 7:30 p.m. third Friday (except December)
Coquille Annex, Coquille

President: Gordon Starr, 1-396-4537

Vice-president: Vernon Hone, 1-572-2721

Klamath County

Meeting dates and sites vary. Call officers:

President: Ken Crow, 1-882-1893

Vice president: Chet Hamaker, 1-882-2404

Lane County

Meets 7:30 p.m. second Tuesday,
Public Employees Credit Union,
1155 Chambers St., Eugene

President: Lee Zigler, 1-688-5675

Vice president: Jeff Darling, 1-741-1582

Secretary: Christine Erwin, 1-942-7061

Treasurer: Jim Sheridan, 1-344-1354

Portland Area

Meets 7:30 p.m. fourth Monday,
Far West Federal Bank,
McLoughlin Blvd., Oregon City

President: Lewis Morgan, 1-775-2796

Vice president: Frank Courtway, 1-761-2961

Secretary: Carol/Scott McConnachle, 1-665-4241

Southern Oregon

Meets 7:30 p.m. first Monday,
Ag Extension Auditorium
Maple Park Drive, Medford

President: Rob Behrend, 1-664-3426

Vice president: John Campbell

Secretary: Lynne Behrend, 1-664-3426

Tillamook County

Meets 7 p.m. first Thursday,
Fish & Wildlife Bldg.,
4909 Third St., Tillamook

President: Bob Allen, 1-322-3819

Vice president: Fritz Hoffman, 1-842-6856

Secretary-treasurer: Gregg Cline, 1-842-6323

Tualatin Valley

Meets 7:30 p.m. second Wednesday
PGE Building,
Old Scholls Ferry Road & Murray,
Beaverton

President: Bill Rufener, 1-503-324-2571

Vice president: Jim Marshall, 1-503-642-3319

Secretary: Lew Wolf, 1-503-251-5482

Treasurer: PattiJo Campbell, 1-503-590-1336

Willamette Valley

Meets 7:30 p.m. fourth Monday,
Room 32B,
Chemeketa Community College, Salem

President: Walt Nichol, 1-585-5705

Vice president: Darrell Gulstrom

Secretary: Hamid Kaskale

Treasurer: Fritz Skirvin, 1-581-9372

**Directory:
The business of bees**

Keller's Apiary
4620 Hyline Road
Ontario, Or. 97914
Phone 1-503-889-8279
Owners: Maxine, DeWayne,
DeWayne, Katrina & Todd
Family business: Honey,
pollination services

Wild Harvest Honey
20367 Long Road
Blodgett, Or. 97326
Phone 1-503-456-2631
Owner: Kenny Williams
Crop pollination, honey,
beeswax candles

Joann's Honey
3164 Maple Court
Reedsport, Or. 97467
Phone 1-503-271-4726
Owner: Joann Olstrom
Basic bee supplies and
related books; honey
and limited pollination.

Mountain Meadow Honey
27997 Schiewe Drive
Colton, Or. 97017
Phone 1-503-824-3456
Owners: Charlie Mock
Nancy McSwane
Crop pollination;
honey production

**To be included in the
Directory...**

Please send your business card and the form below (or use a separate piece of paper with the following information:

Name of business: _____
Owner/owners: _____
Street Address: _____
City, state & zip: _____
Telephone number: _____
Service, what you sell or do: _____

Mail to:
The Bee Line
1033 Gibson hill Road N.W.
Albany, OR 97321

Buzz the Honey Board
National Honey Board

1-800-553-7162

Your National Honey Board At Work
The National Honey Board conducts research, advertising and promotions to help maintain and expand domestic and international markets for your honey. Among the many ongoing projects are:

- Full-color national advertisements for honey in leading consumer magazines
- Regular honey recipes, releases and photographs to newspaper and magazine editors
- Professional merchandising materials available to retailers, the foodservice industry and you



Membership and Publications

Membership in the Oregon State Beekeepers Association is open to anyone who has an interest in bees and beekeeping. You do not need to own bees or reside in Oregon to join.

OSBA Membership: \$15 per person. Includes 10 issues of the BEE LINE and a vote in all OSBA elections. If you belong to a local group, which one? _____
(Your local gets \$1 of your dues.)

Amt. Enclosed New?

Foreign subscriptions are \$23.

25% Membership Discount on All Magazine Subscriptions:

<i>American Bee Journal</i>	1 yr. \$12.15,	2 yrs. \$22.59	_____	<input type="checkbox"/>
<i>Gleanings In Bee Cultures</i>	1 yr. \$12.25	2 yrs. \$22.50	_____	<input type="checkbox"/>
<i>The Speedy Bee</i>	1 Yr. \$13.25	2 Yrs. \$25.25	_____	<input type="checkbox"/>

Name _____
Address _____
City _____ State _____ Zip _____

**Please make checks payable to OSBA and send to:
Phyllis Shoemake, 1874 Winchester NW, Salem OR 97304.**

Classified - Want Ads

FOR SALE: 400 colonies, newly-painted with new pallets, ready before the almond pollination season. Call to talk price: Rob Behrend, 1-503-664-3426.

FOR SALE: 1971 International with hive loader, 16-foot bed, runs good; hauls 96 hives. Kim Vander Sys, 81888 Bear Mountain Road, Creswell, Phone 1-503-895-4574.

OUT OF BUSINESS SALE: 24 deeps, good, 10 combs, \$12 each; 48 new 10-frame deeps, no comb, \$10 each; 16-foot Kelley loader, very good, easy to remove and no mounts sticking up from truck bed, \$800; gas brander almost new, \$90; United Bee Supply frame parts, tops, \$15/100, bottoms, \$6/100, lids, new paint, \$1.50 each; bottoms, \$1 each; wax embedder, \$10; barrels, new, \$12, good used, \$8; super pallets, \$1 each; feeding system for syrup, slick, 5 seconds per hive and easy cleanup, \$75. Dan or JoAnn Keeley, 5975 Buyseries Road N.E., St. Paul, Or. 97137, Phone: 1-503-633-2838.

DADANT EXTRACTORS: Used Ranger; stainless steel electric, 3-6 frame, \$619 new, now \$400. Two-frame stainless steel reversible hand crank extractor, \$375. Joann Olstrom, 6134 Maple Court, Reedsport, Or. 97467. Phone: 1-503-271-4726

FOR SALE: 50 colonies in excellent condition with pollination accounts. \$3,300. Dennis Pydynkowsky, Vancouver, Wash. Phone: 1-206-695-0023.

BEESWAX WANTED: Christine Erwin, Cottage Grove, Or. Phone: 1-503-942-7061.

POLLINATION SERVICE: Will broker/transport bees to California for almond pollination. References and experience. Garry Seeley, Salem, Or. 97305. Phone: 1-503-792-3523.

FOR SALE: 10 frame boxes, full depth, semi and westerns, \$3 each. Lids and bottom boards, \$1.50 each. Volume discount. Garry Seeley, Salem. 1-503-792-3523.

FOR SALE: 10 double deep, 9-frame colonies, each includes 1 shallow 9-frame honey super with foundation, \$58 each; 2 complete Ross Round supers, \$30 each. Phone: Randy Stewart, The Dalles, 1-503-296-9614.

HONEY PROMOTION: Media kit, write: National Honey Board, 421 21st Avenue No. 203, Longmont, Colo. 80501-1421, Phone 1-303-776-2337; FAX 1-303-776-1177.

1994 Events Calendar

American Honey Producers

Jan. 12-15, Phoenix, Ariz.
Contact: Dr. Larry Connor,
P.O. Box 584,
Cheshire Ct. 06410-0584.

American Beekeeping Federation

Jan. 18-23, Sheraton World Resort,
Orlando, Fla.
Disneyland: Take kids or grandkids
Information:
American Beekeeping Federation,
P.O. Box 1038,
Jesup, Ga., 31545,
Phone/FAX 1-912-427-8447.
Travel: Paul Heins Albany Travel,
1-503-967-1022; 1-800-327-2699.

Middle East Food & Equipment Show & Salon Culinaire

Jan. 22-25, Manama, Bahrain.
Call: Linda Hampel, 1-303-776-2337.

The 1994 Bee Masters Course

Feb. 14-19,
Simon Fraser University,
Burnaby, British Columbia
Conference Services/Continuing Studies,
Halpern Centre,
Simon Fraser University,
Burnaby, B.C. V5A 1S6, Canada
Call: 1-604-291-4910; 1-292-3649;
FAX 1-604-291-3420.

Oregon State Beekeepers Association

The Bee Line

Connie Petty, editor

1033 Gibson Hill Road N.W.

Albany, Oregon 97321

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