

A Deer Problem

page 6

"Mechanize or Perish"



page 5

To participate or not

page 3

Bulk Rate
U.S. Postage
PAID
Permit No. 7
Waterville, WA
98858

ADDRESS
CORRECTION
REQUESTED

Volume 2, Number 3

March 1984

BARNES Farm & Orchard NEWS

Box 614 Waterville, WA 98858

Affects grain and fruit industries

Research plan draws criticism

Improvements in controlled atmosphere storage for fruit and the development of disease-resistant varieties of wheat have been accomplished over the years thanks to applied research scientists working in the state.

However, the applied research program may be hurt under the United States Department of Agriculture (USDA) Agricultural Research Service (ARS) program plan, according to some scientists.

are photosynthesis, nitrogen fixation, plant stress and genetic engineering, he said.

But Dr. Orville Vogel, who retired in 1973 from the ARS after a 42-year career at WSU, said he has been "very much concerned" with the policy change.

"The development of new varieties of Pacific Northwest wheat requires a pretty complicated program," he said.

would fall off dramatically in the state.

"If those scientists are phased out, it will definitely have an impact on the wheat industry," he said.

James said, however, that ARS does not intend to immediately terminate applied research and leave a gap of 5 to 10 years.

"We intend to work with the state experiment stations and private industry in order to make a reasonable transition without leaving a gap in improved variety needs," he said.

Although Rasmussen acknowledges that problems will be created in the tree fruit industry, he also thinks that the ultimate result will be the provision of beneficial, solid biological data, such as in genetic engineering.

"Over the long haul, I think that it will be beneficial to the agricultural industry," he said.

The development of germ plasm is one example of important fundamental research, James said. Not only would the plant breeder in the state of Washington benefit from this, but so would other breeders from Kansas to New York, he said.

Rasmussen said that the transition may create some extreme difficulties in meeting the current needs of the tree fruit industry, but hopes that "as we try to make this transition that the grower will be patient with us who are trying to pick up the pieces."

He said that the announcement did not give them enough time to appeal to the state legislature for help in the transition. "We don't have the people, the laboratories or the monies," he said.

At this time, there is less than one person in post-harvest physiology. "That is less than any state growing apples," he said. "And we are the biggest apple growing state."

"It will create some real problems," Lee said. "With any particular state, one problem will be that some commodities will suffer more than others."

"I think that what it will do is put a lot of pressure on the state unit experiment stations."

Lee predicts that it will tremendously increase the research burden on the state. Quite a number of federal scientists have been working in the state in applied research, he said.

But the ARS does not have the funds for both programs, James said. To develop such a plan without the good possibility of getting more funds "would have been developing a wish list," he said.

"In my own view, the plan is as good a plan as what we could have," he said. "It means that the state or private industry will have to do some of this research."

"This is a very big problem for us," Lee said. "Right now it is unclear how we will meet this need."

Vogel believes that all the agricultural industries affected by the change, including wheat, bean lentil, pea and apple growers, need to seriously

"Research is a good investment, not just an expense."

Other scientists, such as Dr. Norman James, director of the ARS in Pullman, feel that the total agricultural system will be better off.

The six-year plan, which begins this year, includes a redirection of some federal funds from applied to fundamental research.

For the wheat grower, that means the present wheat breeder in the state won't be replaced when he retires, according to Dr. Ken Morrison, state extension agent at Pullman.

And it is the wheat breeder who develops such varieties as the snowmold-resistant Sprague and the rust-resistant Gaines varieties.

The fruit grower may also suffer from the cutbacks in plant breeding, as well as in post-harvesting atmosphere storage research and fruit pathology, said Dr. Paul Rasmussen, chairman of the Horticulture and Landscape Architecture Department at Washington State University (WSU) in Pullman.

"It has already affected us in some areas," he said.

James said that the plan came from years of pressure from Congress to direct its time and money on high quality research which would aid in the development of a food base for the latter part of this century and the early part of the next century.

The plan that followed included a refocus on research to address this problem, James said.

Four of the areas which will get more attention from fundamental research

Vogel, well known for his 1963 release of Gaines, said that the variations in soil, climate, topography, diseases and management systems in the Pacific Northwest make the applied research program a necessity.

"The life of a variety is so short that we need a constant breeding of varieties," Vogel said.

"Private breeders can't afford to do all the testing that is needed."

"The Pacific Northwest is a unique area. It is different than the Midwest. We need the coordination of an outside source. That source has been the ARS."

Vogel said that it takes from 12 to 14 years for the release of a new wheat variety and new diseases are coming fast.

"When I started in the 1930s, there were only one or two races of stripe rust," he said. "Now there are 20 to 25 stripe rusts. And that's only one disease. We're facing many diseases."

Vogel said that the problem with fundamental research is that it is so slow. Fundamental research, he explained, goes way back to basics.

"I think the public will get tired of it 5 to 10 years down the road and there is nothing to show from the fundamental research," he said. "I think the public will get a little bit sour."

Dr. Donald Lee, assistant director of the Agricultural Research Center at WSU, predicts that without the research on new disease-resistant wheat varieties, it "will only be a matter of a few years before wheat production



Lee agrees that the increase in the fundamental research base is a positive aspect of the change. Information gained through fundamental biology can be used to solve everyday problems, he said. It will also help differentiate between local and national problems, he said.

continued on page 2

Research continued from page 1

evaluate the situation and pressure the government.

"If the groups don't get together and express their views, then they are the ones who are going to lose," he said. "There's a big agricultural industry here that's going to be affected."

Lee noted that some people question the value of agricultural research in the state, while others realize that it is a

three billion dollar a year business.

"It is made up of primarily small producing units," he said. "They are unable to do the type of research needed."

"Research is a good investment," Lee said, "not just an expense."

Lee predicts, however, that very few states will be willing to supplement agricultural research.

"Given the recent economic problems in this state and the legislature's latest actions, I'm not sure where we stand," he said. "The big unknown at this time is the state's economy."

James stressed that it is not intention of the ARS to harm the agricultural industry and the general public.

Rather, the ARS hopes to respond to some real concerns with a generally wider applicability than the development of a variety, he said.

James believes that the change will eventually lead to the development of better varieties. The program is also designed to strengthen national efforts in combatting soil erosion, in human nutrition, export marketing and the development of new uses for agricultural products.

The plan is also to develop new products for export, instead of just selling the raw product.

"The plan has attracted a substantial amount of attention," James said. "It

is true that ARS has redirected its research from applied to fundamental, but it's not a plan to be harmful."

Vogel thinks that the movement is "a very serious mistake" and farmers "should talk to their congressmen."

Rasmussen also thinks that growers should "absolutely talk to their legislators. The rural voice needs to be heard," he said.

Commercial Growers

Order these favorite Northwest Fruit Trees while supplies last



Redchief Red Delicious
- Choice of the experts for big early pool profits.



Bing - The finest commercial sweet cherry in the Northwest.



Bartlett - Leading commercial variety for fresh and processing markets.



D'Anjou - This area's finest quality late market pear.



Bosc - An outstanding, large, late ripening russet pear.

Wide range of rootstocks available

CALL TODAY

Jack Pheasant
Wenatchee
(509) 884-2311

Hugh Hargrave
Yakima
(509) 966-0425

Jerry Molinaro
Yakima
(509) 457-2552



HILLTOP Orchards and Nurseries, Inc.



**Add Benefits
& Lower Costs
with**

Schaeffer's SPECIALIZED
SINCE 1839

Wet-Sol

A Biodegradable, Non-ionic, Surfactant that

Improves root zone & crop yield.
Cuts fuel & electricity costs on irrigation.
Allows effective irrigation with less water.
De-Foamer reduces ag-chemical foaming.
Eliminates clogging spray nozzles.
Improves kill with chemicals like Atrazine, Basagran, 2-4D

FOR USE AS A SOIL PENETRANT.

FOR USE AS A SPREADER-STICKER.

FOR GENERAL HERBICIDE WILTING.

WET-SOL WILL NOT INJURE CROPS.

Soil Penetrant - 2 qts. per acre.
With Herbicides - 1 pt. per acre.
With Insecticides & Fungicides
- 1 pt. per 100 gals.

ONLY \$7.07 gal.

Available in 5, 30, & 55 gal. drums

For personalized service, call

RUSS FODE

(509)782-4212

If no answer, phone 765-0555

NAWG Meeting

Officers of the Washington Association of Wheat Growers will attend the National Association of Wheat Growers' spring board meeting March 19-21 in Washington, D.C.

Among those who will attend are Dennis Bly, president of the state association, and vice-presidents Gayle Gering and Jim Walesby. Past president Jim Miller and national legislation chairman Chris Laney, as well as officers from the county associations, will also attend.

The group will spend most of its efforts in lobbying for policies in the 1985 Farm Bill, Bly said.

BARNES
Farm & Orchard
NEWS

Published by
Barnes Welding & Machine

Kathleen Rivers, editor

Technical Facilities--Jim and Carolyn Gill, Waterville Empire Press.

Published monthly by Barnes Welding & Machine, Box 614, Waterville, WA. To add your name to our free mailing list or for advertising information, contact Barnes Farm & Orchard News, Box 614, Waterville, WA 98858, 509-745-8588.

Get Ready for Spring Spraying!



Waterville Auto Company Manager Eldon Hawkins, right, explains features of the Melroe Spra-Coupe to Chelan Farmer Charles Jones.

**at Central Washington's
Spray Equipment Headquarters**

Models 115, 116-72 and 116-78 in stock



You saw us at the Ag Expo in Spokane

Models 120 and 220 available soon

Models are available with electric drive wing tips. Kits are available for other models.

Parts & Accessories for Many Models of Sprayers

The Melroe

Spra-Coupe

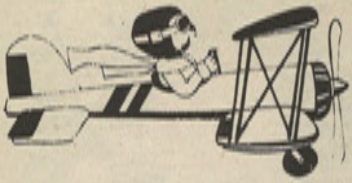


Waterville Auto Co.

116 W. Locust

Waterville

509-745-8546



Barnestorming

with farmers about
government programs

About two years ago, I spent a month with the Agricultural Stabilization and Conservation Service certifying grain farmers in Douglas County.

Each time I sat down with a farmer before the piles of aerial maps and government forms, my sympathies grew. Not only did the farmer have to outguess nature, he had to outguess the government. Should he plow down some of his winter wheat crop in order to comply? Should he have planted some acres in barley? Will he need a government loan? Will it be to his benefit to join the government reserve program? Will the government throw in a wrench by imposing another grain embargo? What will joining the program do to his wheat base? What will the world economy do to the price of wheat?

To participate or not.

This year, fewer farmers in Central Washington are opting for participation, although recent rule changes are making some farmers take a second look.

Thanks partially to lobbying efforts of Washington wheat growers, United States Secretary of Agriculture John Block extended the sign-up deadline from Feb. 24 to March 16, and, more important, changed the summer fallow rule.

The extension, according to Washington Association of Wheat Growers President Dennis Bly of Harrington, will give farmers a chance to see how their crops make it through the winter. The change in the summer fallow rule will increase participation by allowing farmers to count summer fallow land as part of their set-aside if left in stubble. That means farmers like Bly would have to plow out less of their crop in order to comply. Bly, who farms with a three-year rotation, can now use some of his summer fallow ground for set-aside and plant barley on ground which previously would have been needed to fulfill the conservation use requirements for set-aside. The original 1984 farm program required summer fallow land to be considered as wheat crop land in the set-aside program.

For William Paul of Reardan, the extension did not make a difference. However, the change in summer fallow rules will allow him to qualify on some ground he couldn't before.

"The way the program was before, it was too selective," he said. "I couldn't qualify if I wanted to."

The extension may make a difference to John Wagner of Wilbur, but for other reasons than the summer fallow rule. Wagner seeded fence to fence, but he is now farming only 320 acres. "If I take out some, it doesn't leave much to make a living," he said. "Now its been about breaking even. What is hurting the most is the fact that I would have to lay out 30 percent--that's 60 acres. I'm not happy with the program."

Wagner said that the only thing which would sway him to participate is predictions that the price of wheat will fall to \$3.10 to \$3.20 a bushel. It takes about \$3.65 to break even, Wagner said, and the deficiency payments could help. Therefore, the extension will give him a little more time to make a decision.

Then there are farmers who won't be affected by either change, such as Gerald L. Peterson of Othello. Peterson is an irrigated farmer and had already decided to participate.

Peterson does have a gripe about the program, however, which is echoed by just about every farmer in Eastern Washington. The government needs to release the program earlier, they say.

The 1984 program was announced last fall, but farmers waited to see if Congress would freeze the target price, Bly said, as requested by the United States Department of Agriculture. It didn't happen.

Bly said that farmers would really like to know details of the program in June so they can plan their summer fallow and fertilizing. However, Bly also pointed out the dilemma of the government. If the government decided on a 30 percent set-aside figure in June in efforts to reduce the surplus of wheat and drive up the price, and a drought followed in the next few months, the country could end up with a severe grain shortage. The government is looking at that year's harvest, whereas the farmer is looking at the following harvest.

Nobody has a solution, which means farmers need to keep lobbying. Such

efforts do pay off, as evidence by these two most recent changes in the 1984 Farm Program.

Kathleen Rivers

When
you make
the land
your
life...



Providing long-term credit for people who work the land.

P.O. Box 1119
1002 South Pioneer Way
Moses Lake, WA 98837

765-7828



SAVE \$5,500

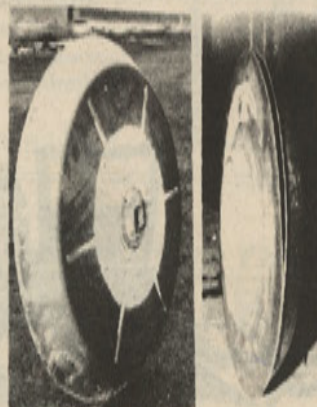
Rebuild Your Worn Packer Wheels

Compare Prices

48 New Packer Wheels: \$7,900
48 Rebuilt Packer Wheels: \$2,400

Rebuilt Packer Wheels
Barnes Welding 'Price: \$60.44

Quantity Discount (over 41 wheels): \$50.54



We do John Deere split packers and 150 International split and single packers.

Price includes rebuilt and reinforced hubs.

John Deere and International split packer rings: \$16.95.

Angle rings for all remaining drills: \$28.95 per set of 2.

Waterville Airport



Compare Guarantees

New Packer Wheels: 1 Year

Rebuilt Packer Wheels

Barnes Welding Guarantee: 6 Years

Hardfacing: \$7.50/wheel.

Slight additional charge if wear has separated packer wheels.

QUANTITY DISCOUNT ENDS APRIL 1

745-8588



**NORTHWEST
FARM BUREAU**
INSURANCE COMPANY

**For all your insurance needs
-- large or small**

All our insurance is programmed for the
rancher or orchardist in one compact package

We are not a government-sponsored association.

CONTACT

**Don Deppner
or Marcia McGinnis**

610 N. Mission, Wenatchee WA 98801
663-1927

Weldon Barnes'

Machine & Welders Shop

Editor's Note: Weldon Barnes, co-owner of Barnes Welding & Machine, has 45 years experience working with metal. If you have questions about welding or working with any kind of metal or machine, send them to:

MACHINE & WELDERS SHOP
c/o Barnes Welding & Machine
Box 614
Waterville, WA 98858



Weldon Barnes

Interviewed by Charles Herring

Here's a rod weeder caster wheel arm that split along the edges. Did improper use cause the damage?

This is an unusual problem. Usually the pins on these caster wheel arms break. When they break we replace the 1 3/4 inch diameter pin with a 1 7/8 inch pin.

How do you fix a caster wheel arm when it has been bent out of shape like it is?

The first thing you do is clean off the old weld using chamfer rod, arc-air or a grinder. Then you use a press to get the arm back into shape. You hang the top arm over the edge of the press and press down on the top of the arm. Then you use a grinder or a cutting torch to cut a vee for deep penetration. This is the part that many people have trouble with--they don't cut the vee deep enough. This is mild steel so you'd use 7018 welding rod.

Since the welds on this caster arm broke after putting in the bigger pin, should a person beef up the welds around the arm after putting in a bigger pin?

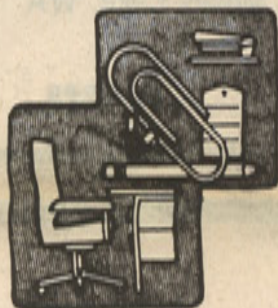
No, I don't think that's necessary. We've replaced many broken pins with larger ones, but this is the first time we've seen a caster arm twisted out of shape like this.

It seems that the tricky part of fixing this is pressing it back to its original shape. Are there any tricks in doing this?

Yes, getting it back in shape could be tricky. The press will only exert force straight down and the box has to be pressed at an angle. You just use wedges to get the box positioned right before pressing.

Johnson's Incorporated

"YOUR COMMERCIAL STATIONERS SINCE 1923"



The Downtown Business Center
For All Your Business Needs:

- Office Supplies • Office Machines
- Office Furniture • Printing
- and much more !

Maybe that's why people say.
"Johnson's has it"!

22 S. WENATCHEE AVE.
Downtown Wenatchee

662-3635



Farm Machinery Bearings



NORTHWEST BEARING

30 Rock Island Rd. East Wenatchee
884-0592

In Moses Lake call

**COLUMBIA
BEARING**

765-1203

White wheat futures meeting set for March 12

The Washington Association of Wheat Growers is sponsoring a white wheat futures meeting on March 12 in Spokane.

The meeting, which will include an evening session with a banquet, will begin at 2 p.m. at the Ridpath Hotel.

Registration will be taken at the door. Subject of the meeting will be the use of white wheat futures, an alternative for marketing grain. The futures may go into effect April 1.

Presently, there is not a futures market for white wheat, according to WAWG President Dennis Bly.

Approval for the futures market must come from the Commodity Futures Trading Commission, he said.

"They want to make sure that the volume is adequate and the delivery points are available," Bly said. "As far as I've heard, everything is a go."

The grain would be traded on the Minneapolis Grain Exchange, he said.

"Farmers are really going to have to get an education," Bly said. "If enough farmers don't use it, we will lose it."

In Monitor

Moving toward Mechanization

Elmer Johnston of Monitor believes that growers need to "mechanize or perish."

He believes it so strongly that he has created a hydraulic platform device for pruning, thinning and picking.

"We use it for anything we would need to use a ladder for," said Johnston, foreman of Highland Fruit, Inc.

ladders, they picked only 6 to 8 bins per day." A couple of years ago, 10 men averaged a record 14 bins one day.

Because the platform carries a bin, which is also moved up and down, the men pick in shares. They also use custom-made sacks which reach as far down as the top of their boots.

They are able to use the longer sacks,



Elmer Johnston prunes a tree by standing on his newest platform.

The platforms, which fit onto tractors, are slowly driven down the rows of the fruit trees. They are designed to carry four men.

Two small platforms on each side, called doors, can be mechanically extended to allow the men to reach any part of the tree. The platforms are also hydraulically raised or lowered.

"There is not a piece on a tree that we can't touch thinning or picking," Johnston said.

Although he has been using the platforms since 1977, he said that the idea has been slow to catch on.

"It's battling tradition," he said. "Grandpa picked in sacks, and if it was good enough for Grandpa, it is good enough for them."

But, Johnston added, imports from other countries where labor is cheaper is hurting the market for Washington apples.

"We're importing oranges from Greece, apples from New Zealand and vegetables from Mexico where labor is so cheap," he said. "We can't compete with these people."

Continuing to run large crews will only be harmful in the long run, he said. "We still have the highest paid farmworkers in the world, although they are the least paid of the United States labor force," he said.

Using the hydraulic platforms cuts down on this labor force, saves wear on the workers and even reduces damage to fruit, Johnston claims.

Harvesting the 150 acres of apple and pear trees now takes 14 men on two platforms. Previously, the number ran as high as 90 men during apple harvest, Johnston said.

"We average 10 bins per man every day on the platforms," he said. "With

Johnston said, because they are not dragging them up and down ladders.

"You are also never more than eight feet away from the bin at any one time," he said. "You don't have to walk down the rows."

Johnston said that the employees are particularly happy with the platforms, which are used at Highland Fruit 10 months of the year. Most of the permanent employees have been with the orchard four to five years.

This same crew allows for consistency in the orchard from pruning to thinning to picking, Johnston said.

continued on page 8

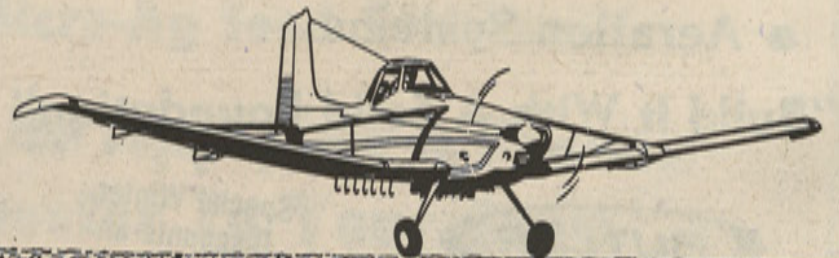


LINCOLN MOTORS
FIVE YEAR WARRANTY

INDUSTRIAL ELECTRIC CO.

1512 Walla Walla
Wenatchee, WA 663-4756

GO with the PRO'S



for Aerial Application

To treat your land and crops with herbicides, insecticides, fungicides and for aerial seeding and fertilization.

- Meet critical time schedules
- Reduce labor requirements
- Treat land where ground spray rigs can't travel
- Spray fields that are wet and muddy
- Eliminate soil compaction
- Get effective treatment with less chemical
- Protect growing crops from damage caused by ground spray equipment

FREE INFORMATION AVAILABLE ON HOW TO INCREASE YOUR EFFICIENCY THROUGH AERIAL APPLICATION.



COLUMBIA Skyways

FIELD SERVICE

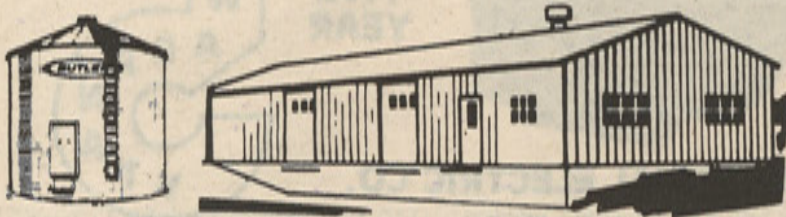
Ray Kope. 745-8212.

Waterville. 745-8670.

East Wenatchee. 884-5825

 <p>"The Plastic Pipe People" MUFFETT & SONS, INC.</p>						EXTRA 5% SAVINGS FOR CASH	
SOLID SET		Specializing In		DRIP		RILL	
Pacific Plastics PVC Pipe Lasco & Spears Plastic Fittings Pegler & G.L. Brass Valves Western Raintrol MSI Sprinklers Weather Tee Sprinklers MANUAL or ELECTRIC		Pepco Tubing & Fittings RIS Emitters Spot Sand Media Filters ELECTRIC		3/4 & 2" Plastic Barrel Valve REIS Low Head Fittings Waterman Slide Gate Valves			
<p>With 6 locations to serve you, we offer the best in quality - service - price</p>							
Buena Airport 452-0234 877-2489 Joel Stufflebeam	Grandview 882-2500 Scott Rivers	Gleed 966-6679 Donna Hofner	Royal City 346-9712 Rod Muffett	Pasco 547-6822 Sharon Muffett	Mattawa 932-4541 Bob Chandler		

Thinking of Building?



- Buildings
- Grain Bins
- Grain Handling Equipment
- Steel Siding & Insulation
- Aeration Systems

Additional Discounts on
Buildings until April 17, 1984

"Build It With A Solid Foundation"



Special Winter
Discounts on
Grain Bins

ROCK STEEL STRUCTURES

118 E. Ada • P.O. Box 892
Coulee City, WA 99115

632-5497

Orchardists search

Controversy continues over deer damage to fruit trees as some orchardists try to control the problem with methods from human hairballs to bullets, while others claim the deer are not a problem at all.

"I've seen as many as 100 in one night," said Earl Brown, manager of Custom Orchards in Brewster. "I've lost a lot of sleep some nights."

Brown has tried flares and firecrackers provided by the Washington State Game Department in an effort to keep the animals from eating the terminal buds on young trees. "They have been pretty rough in the orchard," he said.

But George Chapman, also an orchardist at Brewster, said "my feeling is that there is too much excitement over what I think is a very small problem."

"I've talked to other orchardists who say the deer are passing through their orchards, but not damaging them," he said. "For myself, they are going through the orchard to the river. They're present, but just passing through."

Barclay Crane of Crane and Crane Orchards in Brewster, said he doesn't have a problem now, but he has in the past.

"The real danger is to a young orchard where the buds are in reach of the deer," he said. "I have had damage in the past on from 20 to 50 trees."

"This year, we didn't get it. Just when there were enough deer present to become a problem, it warmed up and the deer left."

Crane said he has tried chemical repellents, firecrackers, eggs mixed with a spreader, birdshot and even human hairballs.

The hairball, wrapped in netting and hung from a tree, is supposed to scare away the deer because of its human scent. "I was getting desperate, although I was chuckling when I did it," Crane said, adding that "it didn't work."

Tim Smith, area extension agent in Chelan County, said the damage potential to a fruit tree can be quite serious.

"Deer are not really grazing animals; they are browsing animals," he said. "If they browse on the twigs of apple trees and bite one off, it is basically gone forever. The tree has to be renovated."

"There could be a reduction of fruit for two, three, four years down the road. That's why some orchardists become so upset. It's their livelihood."

"We have had a great deal of experience through the years on what a deer can do. It is so obvious when you go into an orchard and spurs are chewed off as high as a deer could reach."

Smith said that some deer are killed by orchardists, who receive kill permits from the Game Department under emergency situations.

"The majority of the time, it is a battle of deer and fences and the Game Department," he said.

"But the Game Department is limited in what it can do. 'It's a frustrating thing for us,'" said John Danielson,

TRIAD-C INC.

Tired of Batteries that Don't Last?

At Triad-C, Inc., they wouldn't be in the battery business if they didn't have something special to offer. Their batteries are made by Chloride, international makers of the world's most expensive and durable batteries.

Using their own label and buying in quantity enables Triad-C, Inc., to buy at factory prices, and low overhead combines to keep their prices extremely low. Triad-C is also North Central Washington's only specialized dealer for these outstanding batteries. They also carry less expensive and re-conditioned batteries from \$20.00 and up.

- Delivery Service
- Free electrical system testing
- Open mornings or by appointment
- Call 682-5213 anytime; calls returned as soon as possible after hours.
- Located near the golf course turn-off on the Manson highway.

Triad-C Inc. is a member of the I.B.M.A. (Independent Battery Manufacturers Association), an international warranty adjustment program.

TRIAD-C INC.

509-682-5213

Star Route
111 Manson Highway
Chelan, WA 98816

Orchardists -- Do You Have Deer Problems?



Gallagher/Snell is the Answer

Gallagher/Snell -- leader in power fencing -- has developed a fence that is totally effective for less than half the cost of other fencing

CONTACT

Bob Oneal

P.O. Box 3657 Wenatchee, WA 509-782-4661

L. S. Fencing

7103 Mieras Rd. Yakima, WA 509-452-3000

Brewster Grange Supply

Rt. 1 Box 20 Brewster, WA 509-689-2423

for solutions to deer damage

Game official in Okanogan County.

"There is not much we can do for a person. The deer problem is the worst thing to handle in my job. You really can't satisfy everyone."

Joe Paschall, Chelan County Game official, said the great majority of orchardists are not shooting deer. "They realize the problem. The winter gets hard, they get pressed, they get really hungry. Most of the orchardists are well aware of the problem."

Crane agrees. "I don't know of any orchardist who want to shoot the deer," he said. "They are really willing to try anything."

The Game Department did participate in a fencing program until 1981, where the department would furnish the fencing materials and the orchardist would install and maintain it.

The program became so expensive, however, that it was discontinued. The game department would like to have some state general funds for fencing, according to Mike Shockman of the State Game Department in Olympia, but that looks unlikely. The Game Department, funded only through fees and licenses, is the only state agency that does not get general funds.

"We have gone to the legislature with the attitude that these are everybody's deer," said Paschall. "A lot of people just like to look at them."

State Representative Earl Tilly, 12th District, introduced legislation this year that would require the Game Department to spend \$75,000 on a cost-share fencing program.

However, Danielson noted that no only would this be taken out of the present Game Department's budget, it would not nearly be enough.

Danielson said he has had at least 50 requests over the last four years for help in fencing in the upper part of Okanogan County. His share of the money would only be enough for maybe two fences, with the rest spread throughout the state.

Paschall noted that the problem depends on the weather and the specific area. "Not everybody has the problem," he said.

"Basically, we're talking about migratory deer. Orchardists have displaced the migratory winter range of these deer. And that can be bad news for the orchardist."

The Game Department tried feeding deer near Malott in an effort to intercept the animals on their way to an orchard. However, with 40 tons of deer pellets and 40 tons of alfalfa at 10 sites, the cost, personnel and time are high.

Feeding the deer at Malott has also been criticized for drawing deer down,

according to George Brady, also a Game official in Okanogan County. The deer never stay at the feeding stations 100 percent of the time, he said, but the numbers in Malott orchards have been reduced to 50 to 60 from 200 to 250.

"It cuts it down, but it does not eliminate it," Brady said.

Orchardists also have problems with deer in the summer. Crane said he was forced to shoot two deer who wouldn't leave and were "really tearing up the

trees."

"It is not just during the winter," he said. "It is kind of unpredictable. Something happens in the early

continued on page 10

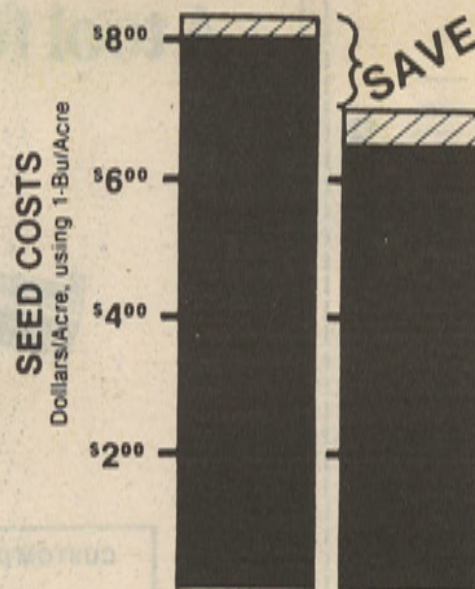
Note: Your Seedsman Is Gearing Up For Spring Right Now, Tell Him

"I Want Micro-Ag Seed Fertilizer"

And You'll Be Applying A Proven Yield Booster To Your Seed

In a variety of independent tests and research done by seedsmen, Micro-Ag Seed Fertilizer consistently out performed the competition, comparing germination, root development, test weight and yield. Dollar for dollar, you're way ahead with Micro-Ag!

You Can Even Save 14% On Your Seed Bill



RESULTS COUNT!

Micro-Ag Seed Fertilizer customers consistently get about 20% more plants **WITH MORE KERNELS PER HEAD**. Therefore by cutting your seed rates you spend less total dollars, yet maintain yields

or \$1.12/Acre

Compared to seeding 1 Bu/Acre using Micro-Ag Seed Fertilizer compared to seed using no seed treat at all. Comparing competitively treated seed to Micro-Ag Seed Fertilizer treated seed, you save \$1.72/acre On seed costs alone



Seed Costs

Based on seed rate of 1 bushel/acre at an average cost of \$8.00/bushel.



Treat Costs

Based on a cost of 1 1/2 lb. of Micro-Ag Seed Fertilizer, and 1/2 lb. of a popular competitive seed treat.

Growers report that they are cutting their herbicide rates by as much as 20 to 50% and reducing chemical damage to their crops by applying 2 oz. per acre with herbicide

■ Better Disease Resistance ■ Quicker Emergence ■ Better Stress Resistance



MICRO-AG
INC.

P.O. Box 125
Steptoe, WA 99174

397-3935 or 397-4362



Or At:

P.M.E., INC. Phone (509)525-8880 Walla Walla
NEW ERA PRODUCTS Ruben Fode (509) 659-1493 Lind

G & L SALES & SERVICE

QUALITY
HARDFACING PRODUCTS

LOW AMPERAGE-HIGH ALLOY

COBALARC UNIONMADE
COBALIDE GLOVES
CHROMTUMG AT WHOLESALE

We ship anywhere in the Northwest
CALL OR WRITE FOR INFORMATION
P.O. Box 224 Enumclaw, WA 98022

825-5120 206 862-0749

We have TOP QUALITY Seed for your spring needs

Alfalfas, Grasses, Corn grain & silage

Barleys including Columbia & Beardless and other cereals

We also have Elka Ryegrass

Excellent ground cover in orchards
Comes up within 10 days
Outperformed other grasses in Washington orchard cover trials

Effectively suppresses weeds
Resistant to traffic

John McLean Seed Company

Box 815 Coulee City, WA 99115 509-632-5238 or 509-632-8709

It may be worth a second look

Are you buying a wise investment or a future problem?

Let WESTERN RANCH help you choose your next building contractor.

CLIP & USE	Is your contractor	Western Ranch	Other
	locally established?	Yes	_____
	licensed, bonded & insured?	Yes	_____
	available for service?	Yes	_____
	Does your contractor		
	have its own erection crew (not subcontracted out)?	Yes	_____
	spell out what you're getting before you buy?	Yes	_____
	have experienced erection crews?	Yes	_____
	provide plans for plan check by building inspector?	Yes	_____
	have satisfied customers in your area?	Yes	_____
CLIP & USE	Does the building include		
	pressure treated poles & skirtboard WSP approved?	Yes	_____
	all other lumber graded, stamped & kiln dried?	Yes	_____
	all parts included?	Yes	_____
	trim and flashings required?	Yes	_____
	double-bolted trusses?	Yes	_____
	high tensil steel roofing & siding, 80,000 p.s.i.	Yes	_____
	metal applied with screw fasteners?	Yes	_____
	framed with galvanized nails?	Yes	_____
	Will building		
be designed to meet snow load in your area?	Yes	_____	
be completed on schedule?	Yes	_____	
be done right the first time?	Yes	_____	
meet building code?	Yes	_____	
(check with your local building inspector)			
20-Year Warranty Available on Steel			

Note: Did you know there are two gauging systems on steel?

Decimal Thickness	GSG (domestic)	USG (Import)
.015	30 ga same as	28 ga
.0165	29 ga same as	27 ga
.021	26 ga same as	24 ga

Item for item, WESTERN RANCH is competitive on cost and excels in quality & service

WESTERN RANCH 884-0555

541 S. Kentucky East Wenatchee

Western Ranch

Stubbs St. East Wenatchee

Orchard platforms

continued from page 5

"They know the operation and they know the machine," he said. "We don't have to push the crews. They have their pride in their workmanship."

"I have had men wait two months to get on the crew."

Johnston said that with the emphasis on fruit quality control for storage, the picking time is essential. Last fall, the main Red harvest at Highland Fruit went down in 10 days.

"You have better control," he said. "Control is the whole thing in this kind of operation."

Last harvest, only five percent of the Golden were culled--four percent naturally (from sun and wind damage, for example) and one percent from bruising.

The use of the platforms has also virtually eliminated stem punctures in pears, Johnston said.

The platforms also help control thinning. The apples thinned are thrown on the deck and not dropped through the trees where they can bruise the remaining apples.

Johnston plans to eventually manufacture the platforms in Mattawa. He estimates the cost of one to be about \$17,000.

But, he said, if an orchardist saves \$1 per tree on just pruning, and has about 20,000 trees, like at Highland Fruit, it will easily pay for itself.

This winter, Johnston estimates that pruning in one block of apple trees at Highland cost \$1.20 per tree. Pruning in a neighboring block, on the other hand, cost its orchardist \$3.50 per tree, he said.

Johnston is also building his own modified platform which will carry three full bins, one bin for picking and three empty ones.

On his modified platform, the driver is a participant in the work on the trees, unlike on the other two platforms where the driver is stationary.

The first platform Johnston built was simply a sheet of plywood on a tractor. It was created in 1966 when his father was foreman of the orchard.

Johnston has been with Highland Fruit since 1948, serving as foreman during the last six years.

Johnston isn't finished with his ideas yet, however. He is also designing a tree straddler for spraying dwarf trees and a three-wheel bin carrier, which would allow for greater maneuverability in an orchard.

"Why take a \$14,000 tractor when you can use a \$4,000 machine," he said.

Johnston said he and his employees are convinced on the workability of the platforms.

Although response from other orchardists has been guarded, Johnston said that he and his employees are convinced about the workability of the platforms and their future.

"My employees now think it is crazy to pick off ladders," he said.

Pesticide course

A commercial consultants pesticide shortcourse will be held at the Franklin County PUD in Pasco March 6-8. Call Bill Ford at 509-545-3511 for more information.

The IBM Personal Computer A tool for modern times



CUSTOM DESIGNED AGRICULTURAL SYSTEMS ORCHARD MANAGEMENT FARM MANAGEMENT SYSTEMS

- AUTOMATES ORCHARD & RANCH BOOKKEEPING
- PRINTS ORCHARD/RANCH CHECKS
- DOES ORCHARD/RANCH PAYROLL
- ORCHARD/RANCH COST ACCOUNTING
- FINANCIAL INSTITUTION PRESENTATIONS

NO MATTER HOW LARGE OR SMALL YOUR OPERATION IS, OUR SYSTEM WILL MAKE YOU MONEY. STOP IN AND LET US SHOW YOU HOW!

Marketed in N.C.W. by...
COMPUTERS 5*

662-2734

AUTHORIZED DEALER
VALCOM COMPUTER CENTER
DIVISION OF VALMONT NORTHWEST
Pasco, Wash. (509) 547-0799

OFFICES IN THE JOHNSON, INC. BUILDING
24 So. Wenatchee Ave., Wenatchee

- SYSTEMS
- SOFTWARE
- SERVICES
- SUPPLIES
- SUPPORT

Farmers find flying benefits business

Last spring, Randy Franz of Ritzville made a parts run to California.

His family farm needed the part to fix a piece of farm equipment--and they didn't want to wait weeks, or even days, in a business where timing can mean dollars.

The parts run was made by airplane, a transportation means that farmers throughout the world find advantageous.

"We fly for pleasure, but also for business," said Randy's mother, Phyllis.

The Franzes belong to Flying Farmers, an international organization comprised mainly of grain growers. Randy's father, Vic, is currently serving as the international vice-president.

The Flying Farmers is a family oriented social organization designed to promote the use of the airplane in the agricultural industry.

It also offers low cost insurance to its members and upgrading programs to promote safe flying.

"One of the most beneficial things is that it is a family organization," said Paula Kramer of Harrington. Her husband, Bob, serves as regional director for Washington, Idaho and Oregon, and she has served as the international queen in 1971.

The organization often sponsors fly-ins, where members and their families fly to a designated location for a meeting and a potluck.

"It's a wonderful opportunity for meeting people," Mrs. Kramer said.

"It's an experience we would not have had otherwise."

The Kramers have traveled from Alaska to Costa Rica as flying farmers, and gathered ideas about farming operations different than their own.

"You get such a different impression of the world from the air," Mrs. Kramer said.

"You find that people aren't the same," said Mr. Franz. "There are a lot of different ideas in different areas."

Of course, the social aspect is only one of the bonuses of belonging to Flying Farmers.

"The I.R.S. (Internal Revenue Service) keeps telling us it's a social organization," said Von Bedker of Mabton. "But that's not necessarily true."

Bedker, a grape farmer, is one of very few fruit growers who belong to the Washington chapter.

"Flying shrinks everything you have," he said. By air, Portland and Spokane are only an hour away. And 90 miles to Walla Walla is a long ways to travel on the road for a part for his mechanical grape harvester.

Mr. Franz also finds that flying can save money on farm equipment. Last summer, he flew to Canada for a grain swather, an item which was not readily available in the area.

He also checks his fields by air, especially during irrigation season--mid-February to the end of

continued on page 12

Don't Miss The Home and Garden Show at Wells and Wade!

Friday and Saturday, March 9 and 10, find home and garden fix-up products on sale.

Saturday is "Demo Day" in the mall.

Watch and ask questions, 10 to 4.

And be sure to visit our booth in the KPQ Home and Garden Show at the Wenatchee Convention Center, March 9 through 11.

Wells and Wade
a name you can depend on.

201-15 So. Wenatchee Ave. 662-7173
Downtown Wenatchee.

UNIPEL FOR EVERY FERTILIZING NEED



Too many growers take the job of fertilizing too casually. Uneven spreading, excessive volatilization, the wrong formulation--any one can curtail crop yield and profits.

ORTHO UNIPEL® fertilizers were created to eliminate such problems. The fertilizers are chemically combined pellets in four popular formulations. They are uniform in size, shape, weight and nutrient content

for fast and even spreading. Every part of the field gets its proper nutrition. You get uniform growth and uniform maturity.

We have the full line of ORTHO UNIPEL fertilizers. Why not stop by and see what we (and UNIPEL) can do for you?

UNIPEL MEANS UNIFORMITY



ORTHO

Chevron Chemical Company

TM'S ORTHO, CHEVRON, CHEVRON DESIGN, UNIPEL-REG. U.S. PAT. AND TM. OFF.

AGRICULTURAL
CHEMICALS



FERTILIZERS
DRY
LIQUIDS

NEXUS Ag. Chemicals, Inc.

P.O. Box 67

787-3517

QUINCY, WASHINGTON 98848

EQUIPMENT MANUFACTURING, INC.

YOUR HYDRAULIC PARTS AND SUPPLY COMPANY FOR N.C.W.

- Complete stock of Hydraulic cylinder seals and packing
- Hyd Cylinder tubing and chrome shafting
- Straddle Carrier parts & repairs
- Hydraulic pumps, motors, valves

Vickers, Cessna, Charlynn, Gresen, Cross

REPAIRS, PARTS, TESTING

Machine Shop and Steel Fabrication

EQUIPMENT MANUFACTURING, INC.

"Complete Hydraulic Service"

1451 N. Wenatchee Ave. - Wenatchee, Wa. 98801
663-7672

Serving N.C.W. Since 1954 - Located behind the Windmill Restaurant

Frank H. Parkins - Carl E. Parkins - Donald L. Parkins

Presenting a new generation of high performance General Purpose field power

From the Tractor Specialist—Case



New
43-85 hp*
(32-63 kW)
tractors

Featuring new styling... new power ratings... 12-speed power shift...
new cabs... new instrumentation... new loaders... new state-of-the-art
human engineering. General Purpose tractors at their best!

See and drive our new GP's

Case Power & Equipment
(509) 765-1257

Route 2, 2390 Wheeler Rd. Moses Lake, WA 98837



Dear Damage continued from page 7

summer where they move into an orchard."

New plantings of semi-dwarf trees also add to the problem, Danielson said. These trees never grow out of reach of the deer.

Brady also noted that just because the deer are there, they are not necessarily damaging an orchard.

If deer browse the tips of young trees, they will sprout out in different areas below.

"Some say there is no damage," Brady said. "When the tree reaches five or six years old, was it set back one or two years by the deer? It may not be the pruning method or form that the orchardist wanted, but the end result may be the same."

Beavers and porcupines can also be a problem for orchardists. "A beaver can destroy a 20-year-old tree," said Danielson. "We get a lot of beaver complaints here."

And in the Yakima Valley, the damage caused by herds of elk can be extensive.

Crane found that birdshot in a shotgun would not deter the deer. And Brown found that flares would only cause the deer to move on to the next row.

Fencing seems to be the most effective solution according to extension agents, game officials and orchardists. However, conventional fencing to alleviate the problem in Okanogan County would cost well over one million dollars, Danielson said. "It is very effective," he said. "But it is very expensive."

Bob Rhodes, territorial manager for Snell/Gallagher in Oregon, believes his company has found the solution.

"We've finally developed a fence that

we feel is not only effective, but economically effective," he said.

Gallagher/Snell, the largest power fence company in the world, "has done a tremendous amount of research during the last eight years," Rhodes said.

"If an orchardist is having a bad deer problem, the deer can come in in one day and destroy what would cost to put up the fence," said Bob Oneal, a Snell/Gallagher representative in Cashmere.

"It costs half as much as traditional barbed or net wire fencing and is actually more effective, thanks to the space age electronics used to power the fence."

Energizers can power the fence up to 40 miles and growing vegetation will not short it out, Rhodes said. Strong wire will make the fence last from 30 to 50 years and spacing is tight enough that deer cannot crawl through without getting zapped.

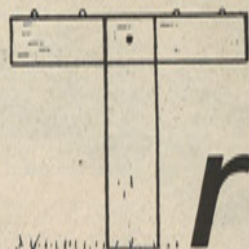
The electric fence will jolt the animal harder than a conventional fence, but will not hurt the animals.

"I think, finally, after all these years, we have come up with the answer," Rhodes said.

The company will soon install its first fence in Central Washington at Brewster where orchardists are getting desperate for a workable solution for everyone, including the environmentalists.

"Most people will put up with some deer in their orchard," Paschall said. "It's kind of a political deal. How are we going to satisfy everyone?"

"It's been a real headache without many solutions," Danielson said.



\$ale! rellis & fencing

Hi-Tensil Wire
Posts

Strainers

Nico-press

from \$40.00 100wt
& up

CEDAR & CCA

from \$2.40

fw 2-3 \$11.50 p.100
all fob tacoma



CALL

(206-531-4203)

Cold Winter Weather Means A Greater Need For DORMANT FISH OIL PESTICIDE

Now Improved With Homogenization

- Greatly reduces "oil shock" to trees
- Longer "spray window" without Phyto
- Enhanced IPM
- Excellent spreader for delayed dormant nutrients such as Zinc, etc.

For more information contact

- ☐ Fruit Builder, Quincy, WA 787-4391
- ☐ Ron Wilson, Wapato/Yakima, WA 877-3323
- ☐ Fruit Builder, Wenatchee, WA 663-0123



Manufactured by:

FRUIT BUILDER, INC.
Wenatchee - (509)663-0123

CLASSIFIEDS

Barnes Farm & Orchard News classified ads reach the mailboxes of more than 4,500 orchardists and grain growers. To place your ad in this section, send it to Barnes Farm & Orchard News, Box 614, Waterville, WA 98858. Send in advance of publication \$7 for 20 words or less and 25 cents for each additional word.

FARM EQUIPMENT

Bush Hog Disc. 5 foot. 3 point. \$850.00. Pruning squirrel with pruners. \$950.00. Leo Beffa. R1 Box 27, Tieton, WA 509-4541.

For Sale: 1965 Kenskill 21' self-contained travel trailer. Dual axle, dual propane tanks, all wood veneer interior. Clean. \$1900/offer. Call 837-6059. Sunnyside.

24' Towner Disk, 16' Goble, 16' Oliver Wheel Disk, 10' IHC Drag Disk, 3-9' Joeffrey Chisel Plows w/hitch & hydraulics. 677-3503, 677-3603.

Discontinued dryland farming. For Sale: JD8430 Tractor only 1046 hours, 3 IHC Drills with hitch and fertilizer hoses, JD95H combine very good condition. Quincy. 787-3676.

For Sale: 1971 Int. CO-4070, 318, 13 SPD. Brand New 11R22.5 radial tires, radio, air cond. Sleeper. \$7,500.00. 509-659-0623 or 0153.

For Sale: 1968 40' Flat Bed Grain Trailer, 11x22.5. Tires. \$2,500.00. Also a 1960 Ford F500 Truck, 12' bed, only 17,482 mi. \$1,500.00. 509-659-0623 or 0153.

3-LZ10-10 JOHN DEERE HOE Drills w/hitch & w/spearpoints & 3" shovels --excellent condition. Mel Kagele, Ritzville, WA 659-0675.

600 CFM Air Compressor. Barnes Welding & Machine, Waterville Airport, 509-745-8588.

FARM EQUIPMENT

For Sale: 5 J.D. HZ 6-16 split packer drills--with hydraulics, hitch, and transport wheels--\$11,450.00. 509-659-0623 or 0153. Ritzville, WA

HELP WANTED

Advertising salesperson needed in Yakima Valley to work by commission for growing agricultural publication. Excellent opportunity for outgoing, self-motivated person wishing part-time work. Send resume to Barnes Farm & Orchard News, Box 614, Waterville, WA 98858.

MISCELLANEOUS

Fish Oil & Fertilizer. Call Fruit Builder, Inc. 663-0123 or 787-4391.

Trees & Tree Planter Available. Othello Conservation District. For more information call 488-5809 or 488-5785.

Bees for Pollination. Call Keystone Pollination 784-1369.

Lincoln Electric Welding Manuals. Barnes Welding & Machine, Waterville Airport, 509-745-8588.

Hot water pressure washer mounted on a license trailer. Kohler, 14 hp motor, diesel-fired boiler, Cat pump, fittings, 150 feet of rubber hose, sandblasting attachment. \$2,700.00. Greg Shannon, 745-8777.

IT WORKS



Advertising in Barnes Farm & Orchard News does work. Within two days after my ad appeared I was receiving phone calls and letters.

Scott Rock
Rock Steel Structures
Coulee City

BARNES
Farm & Orchard
NEWS

Box 614, Waterville, WA 98858

509-745-8588

ELECTRIC SHOP PRESS \$1,300
Introductory Price Ends April 1

**IT'S A
LONG WAY
TO TOWN**



**...EVERY TIME YOU HAVE
TO BEND METAL**

Now you can avoid this frustration by taking advantage of Barnes new electric hydraulic press.

Save Money

Unassembled
\$1,300

Partially Assembled
\$1,600

Assembled
\$1,825

All machine work done

You install: cylinder,
pump, valves,
hoses and winch

Ready to plug in!

Save Time

The 18 1/2-inch stroke does every job with fewer set ups

Save Work

Press a button and the ram goes to work

BARNES
Welding & Machine

Waterville Airport

509-745-8588

Flying Farmers



Wendy and Tom Zwainz of Reardan are active members of the Washington Flying Farmers.

continued from page 9

October--to make sure the sprinklers are working right.

The Kramers also check their fields by air, which are separated into two farms 80 miles apart.

"We check the crops in the spring and fall to see if all the wheat has come up," Mrs. Kramer said. And, the airplane also serves as a commuter tool for workers.

The Flying Farmers also sponsor an annual proficiency test where members can upgrade their flying abilities. This, in turn, leads into an insurance program for lower rates.

"The safety program is just fantastic," Bedker said.

Belonging to Flying Farmers can also make it easier for members to attend agricultural meetings.

LeRoy and Mila Gormley of Waterville, who have served as chapter president and queen and honored as the Washington Flying Farmer and W.F.F. Woman of the year, found the use of the airplane as a way to attend these meetings.

"I don't think LeRoy would have been as active in the Washington Association of Wheat Growers if he hadn't flown," Mrs. Gormley said.

Members do not have to be farmers to belong to the organization. One member is a banker in an agricultural loan department. There is also an implement dealer, an agriculture teacher and a certified seed grower.

Mr. Franz, who has been a charter member of the Washington chapter since 1947, also noted that the organization is actively involved in lobbying for private, general aviation in Congress.

"Up until now, we have not been active in agricultural legislation," he

said. "But I think we are going to have to."

Computing For Agriculture

Franklin's 1200 OMS serves your business with two computers in one.

Now you can have an office management system that runs both CP/M* and Apple* compatible programs. That means more than 21,000 software packages are available for your business. As you need them. But just for openers, Franklin's OMS includes:

- ACE 1200 OMS personal computer
- WordStar* word processing
- MailMerge* file merging
- ACECalc™ spreadsheet analysis
- Welcome program
- BASIC and CBASIC
- Serial parallel interface
- 80-column display

\$2295⁰⁰

* Includes monitor, installation & instruction.



Franklin
Computer

Let yourself be tempted. Stop in today.

APPLE VALLEY COMPUTERS

230 GRANT RD.

E. WENATCHEE

Factory Authorized Sales & Service

884-4631

Franklin ACE and ACECalc are trademarks of Franklin Computer Corporation. CP/M is a registered trademark of Digital Research Inc. Apple is a registered trademark of Apple Computer Inc. WordStar and MailMerge are registered trademarks of MicroPro.



Iron Horse Quality



Shredding orchard prunings with the 8' Heavy Duty Mower

FREE DEMONSTRATION IN YOUR ORCHARD. CALL US!

- Mulches brush better than other mowers without throwing debris.
- Mows heavy, wet grass much faster than other mowers.
- Spreads cut grass evenly with no grass piles.
- One year warranty--blades guaranteed for life against breakage.

- Knives easily sharpened on machine.
- Built extremely heavy and durable.
- 100 HP gear box (540 or 1,000 rpm).
- Maneuverable.

FARMERS:

The time is now for hardsurfacing your

- Chisels
- Weeders
- Combines

Call Larry S. Ayre

800-227-0330
509-582-8925

P.O. Box 6481
Kennewick, WA

99336



TRIAD-C INC.

509-682-5213