

### Grass Valley

by Anna Balzer

Mr. and Mrs. Donald von Borstel were hosts at a picnic at their home on the lawn the Fourth of July. Those present were Mr. and Mrs. Walter Koch and Gerald and Marianna of Oregon City, Mr. and Mrs. Ted von Borstel and the Misses Cassie and Mabel Holmes of The Dalles, Mr. and Mrs. Douglas Alley and daughters of Wasco, Mr. and Mrs. Bud Kock and family, George Ten Eyck of Portland, Mr. and Mrs. Bill Pausch, James Field, Mr. and Mrs. Alfred Kock of Moro, Frank von Borstel, Mrs. A. von Borstel and Phil, Mr. and Mrs. George von Borstel and family, Mr. and Mrs. Carl von Borstel and family and John Nichols.

Mr. and Mrs. Donald Clodfelter and Wendell are hosts for the Adams family get-together at their home Sunday. Present were Mr. and Mrs. Loy Adams and Laverne, Mr. and Mrs. Norman Adams and Greg of Eugene and daughter Sandra Adams of The Dalles, Mr. and Mrs. Clair Adams and Ronald of Hood River, Miss Elizabeth Sellish of Yakima, Mrs. C. P. Aadms of The Dalles, Mrs. Donald Marsh and Ricky and Phil, Mrs. Bruce Eccles and Stephen, Karen and Laurie of Hood River. The day was spent playing ball, horseback riding and partaking of the usual picnic dinner.

Ralph Rust went to The Dalles Friday where he entered a hospital for medical attention.

Mr. and Mrs. Dan Hoskinson and sons of Downey, Calif., spent several days visiting at the Lamer Sayers home.

Mr. and Mrs. B. E. Martin of Yucaipa, Calif., arrived June 27 to visit their niece, Mrs. Earl Ochs and family and Mr. and Mrs. Herman Ziegler. They left Tuesday morning for their home.

Mrs. Virgil Oltmann and Joanne visited Mrs. Harold Owens Sunday, coming from Goldendale.

Mr. and Mrs. Harold Owens had an evening dinner June 27 celebrating the 8th birthday of their son, Robert. Guests were his grandmother, Mrs. W. D. Barnett and Mr. and Mrs. Herman Peters. Phil Ruggles spent the afternoon with Robert and ice cream and cup cakes were served.

Mrs. Claus Bardenhagen and Mrs. J. W. Jones had dinner with Mrs. T. M. Rolfe and Mrs. Harriette Wells the Fourth of July.

Mrs. T. M. Rolfe and Mrs. Harriette Wells spent Tuesday and Wednesday last week visiting Mr. and Mrs. Arch Fortner at Boardman.

Mr. and Mrs. Sam Alberty had guests in Friday evening for cake and ice cream to celebrate their daughter Sandra's fourth birthday. Present were Mr. and Mrs. James Taylor and family and Mr. and Mrs. A. S. Alberty and family of Moro and Mr. and Mrs. Carl Schmidt of Grass Valley.

Mr. and Mrs. E. R. Blaylock and Mr. and Mrs. Clyde Stradley and sons returned Saturday from Suttle Lake where they spent several days. Mr. and Mrs. Boyce Blaylock and Orville Blaylock and Shirley Watkins of Wasco returned Monday after spending several days there.

Mr. and Mrs. Sam Alberty had as their guests from Saturday till Monday Mr. and Mrs. Max Chambers and twin girls from Silverton.

Mr. and Mrs. E. R. Blaylock and Mr. and Mrs. Clyde Stradley went to Hood River Sunday to attend the reception held for Mr. and Mrs. Earl Ordway, who celebrated their 50th wedding anniversary. Mrs. Ordway is a sister of Mrs. Blaylock.

Mrs. Joe Peters entertained her bridge club at her home near Moro Thursday with invited guests including Mrs. A. Douma, Mrs. Art Christianson, Mrs. Henry Barnum, Mrs. Leta Eslinger and Mrs. Orlow Martin of Moro and Mrs. Bill Pausch of Grass Valley. Following dessert bridge was in play at four tables. Mrs. Douma held high score, Mrs. Gene Reynolds second high and Mrs. Herman Peters low. Mrs. Douma also won the traveling prize. Other members present were Mrs. Donald Clodfelter, Mrs. A. A. Dunlap, Mrs. D. L. Reynolds, Mrs. Arzell Lemley, Mrs. Eben Kee, Mrs. Alfred Kock and Mrs. A. P. Balzer.

Mr. and Mrs. Wallace May and grandson, Wally May of The Dalles drove to the Peterson Rock Gardens the Fourth of July and enjoyed a picnic dinner.

Mr. and Mrs. A. S. Alberty and family of Moro had dinner with Mr. and Mrs. Sam Alberty and family the Fourth of July.

The Stark family held a family get-together at Bend the Fourth of July. Present were Mr. and Mrs. Harry Stark and family, Mr. and Mrs. Frank E. Bayer and family, Virginia Todd, Mr. and Mrs. Olan Stark and family of Kent, Mr. and Mrs. Curtis Stark of Cove, Mr. and Mrs. Hadley Stark of Anaheim, Calif., Mr. and Mrs. Willis Brittain and family of Bend, Mr. and Mrs. Hubert Wa-

gers and family of Fort Rock and Mrs. Josephine Parkhurst of Roseburg. They all enjoyed a picnic dinner in the Park at Bend.

Mr. and Mrs. Hadley Stark of Anaheim, Calif., arrived Friday and were guests at the home of Mr. and Mrs. Harry Stark. They went to Bend Sunday to the home of Mr. and Mrs. Willis Brittain.

Mr. and Mrs. Marcus Eslinger, Rosalie and Leta, and Katherine Reckman went to Suttle Lake Saturday for the long weekend. Katherine Reckman joined her parents at Bend the Fourth.

Mr. and Mrs. Orville Ruggles and family drove to McNary dam Sunday where they stayed at the Yacht club and were joined by Mr. and Mrs. Earl McKinney and Alan of Hermiston and Mr. and Mrs. Malcolm McKinney and baby of Wasco. They all enjoyed a boat trip up the Columbia past Pasco where the Snake flows into the Columbia. They enjoyed the fire works at McNary Sunday night.

Rodney Rolfe spent the Fourth of July in Klamath Falls.

The Class of 1935 Grass Valley High School is having a class reunion July 16 at the IOOF hall at 2 o'clock. Anyone that would like to drop in to visit during the afternoon is welcome.

Mrs. Donald von Borstel accompanied by Carsten von Borstel, Bobby King, Deborah Reynolds and Barbara Meves, took the train last Tuesday for camp where the children will attend the Episcopal church Ascension summer school at Cove for a week. Mrs. von Borstel returned home with Mr. Hanks of Shaniko. Mr. and Mrs. Gene Reynolds will go up Wednesday and bring the children home.

Mr. and Mrs. Warren Elliott and daughter, Susan of Portland, spent from Saturday till Monday with her parents Mr. and Mrs. D. L. Reynolds. Sandra returned with her parents, Mr. and Mrs. Gene Reynolds and family had dinner with them Sunday.

Mr. and Mrs. Gordon Lemley had a picnic at their home the Fourth of July. Present were Mr. and Mrs. Duane Lemley and family of Portland, Mr. and Mrs. Arzell Lemley and Mr. and Mrs. Hans Bardenhagen and family.

Mr. and Mrs. Lyle Trimble and family of Corvallis stopped at the home of his brother and sister in law, Mr. and Mrs. Ted Trimble the Fourth to visit a while.

Mr. and Mrs. Duane Lemley and family spent from Saturday till Monday with his parents Mr. and Mrs. Arzell Lemley.

Mr. and Mrs. Dick Reckman and Peggy, Gloria Todd, Rita and Margaret Hammond went to Bend the Fourth to see the Water Pageant and to visit relatives and friends.

Mr. and Mrs. Bill Sabo and daughter, Rosemary of Hillsboro, and Richard Anton of Santa Rosa, Calif., were brief callers at the Don Clodfelter home the Fourth enroute to a family picnic at the Bill Hall residence in Moro.

Mr. and Mrs. Bill Todd and family and Mr. and Mrs. Maynor Reed and family took Ardine Todd and Sandra Wilson to Wyeth Youth camp to spend a week. They enjoyed a picnic lunch before returning home.

Mr. and Mrs. Shelton Fritts had dinner with Mr. and Mrs. Bill Todd Sunday.

Mr. and Mrs. Ivan Blagg and family spent the long weekend in Lebanon visiting her parents, Mr. and Mrs. Jerry Coyle.

#### CARD OF THANKS

We would like to thank the neighbors and friends who put out the fire endangering our building while we were gone one day last week.

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### Residual Nitrogen Habits Studied

Dr. C. M. Smith, associate soil scientist at the Pendleton station reports that in residual fertilizer studies with wheat in eastern Oregon, the magnitude of grain yield increase from residual nitrogen appeared to be related to the amount of response the first year and time of nitrogen application. The effect of first-year response on residual nitrogen response was most pronounced on the Walla Walla soil where highly efficient use of the fall-applied fertilizer was obtained the first year.

In nearly all instances, the response to the residual from spring-applied nitrogen was larger than from fall. The reason was not apparent although the longer contact with soil may have resulted in more of the nitrogen becoming unavailable for plants—either chemically or positionally. Additional studies are being conducted on this subject. It is apparent that a considerable of the availability of residue nitrogen is necessary for making decisions as to fertilization practices. Knowledge of residual values can reduce uncertainty associated with the use of fertilizer, Smith reported.

### Dr. Otis G Perkins

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### Plants As Well As Animals Suffer From Virus Infections; Sometimes Same Ones

A joke currently making the rounds is that when your physician looks at you with a frown, shakes his head, and says "you seem to have a virus" he really doesn't know what your problem is.

Whether or not this is true, OSC research is throwing some light on the complicated subject of viruses.

In studying transmissions of plant viruses by insects, Dr. Knud G. Swenson, OSC entomologist, has come up with facts that will help scientists understand human viruses as well as plant viruses.

Although humans and animals are not affected by plant viruses, mosquitoes that carry human viruses transmit them in the same ways as insects that carry plant viruses. This basic fact means that agricultural research does much spadework for medical research, for facts learned by studying the ways plants become infected can be applied to ways humans and animals become infected.

Swenson has been studying vectors (insects that carry plant viruses) for about 10 years—the past six at OSC. During the coming year, he will continue his work in Australia under a Guggenheim fellowship awarded him as an outstanding scholar.

The entomologist reports there are about 400 known plant viruses. Some 300 of these are trans-

mittle by insects—100 by aphids. Much of his research at OSC has been with aphid-borne viruses, for, as he puts it "you must understand the biology of the insect before you can control it, and you must understand the biology of the virus before you can control it."

Viruses affect all sorts of plants small grains, gladioli, beans, clover, alfalfa, potatoes, cane fruits, strawberries, peas, sugar beets, asters, carrots, tomatoes, squash, cucumbers, cherries, cabbage, broccoli, onions, and lilies, to name a few.

Symptoms are many and varied, ranging from merely changing the color to killing the plant. In many field crops, plant growth is stunted and yields are reduced. Swenson emphasized that understanding viruses is a long and complicated process and if farmers are to meet future food needs it is important to continue research on viruses.

At first thought, controlling spread of plant viruses might seem relatively easy: kill the insects which carry the viruses.

But it's not as simple as that, he points out. Much virus spread is by migrating insects that invade a field and transmit the virus before they are killed by insecticide residues that are present. Actually, some insecticides worsen the problem by making

the insects temporarily more active, thus spreading the virus further and faster. In addition to insect-virus relationships, virus control possibilities being studied by OSC researchers include developing plant varieties that are resistant to viruses, the affect of fertilizer and environment on virus susceptibility, and conditions of the aphid's host plant.

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