



FARM NEWS

County Agent's Office

Weed Research Plots Now under Study

By N. C. ANDERSON

The search for newer chemicals for the selective control of grass and weeds from alfalfa, as well as further information on rates of accepted herbicides, was the intent of two research plots established here in Morrow county last Wednesday. Seventy-five plots, each ten by forty feet will compare several different rates of application using a new Dupont product not yet named, Hyvar, Atrazine, Simazine, and Diuron. Of these, Diuron is the only one released and recommended for fall spraying to kill cheatgrass, foxtail and other annuals out of alfalfa if the alfalfa

is to be used as hay. This fall, clearance was given Simazine for alfalfa seed production plantings. These on-farm research plots were established at the Kenneth Palmer ranch on Willow Creek and the Harry Proudfoot ranch on Butter Creek.

In visiting with Arnold Appleby, who is in charge of weed research at the Pendleton Branch experiment station, and conducting much of his research work on farms in the Columbia Basin as well as the Pendleton and Sherman Branch stations, he outlined some of the weed control experiments which are presently underway or being planned for the 1962-63 season. The experiments involve chemical fallow, selective cheatgrass control in grain, broadleaf control in grains, weed control in alfalfa, Morning Glory control and weed control in peas as well as miscellaneous weed research.

Included in the chemical fallow are four new locations with 100 plots each established this fall at the Pendleton station; Gar Swanson farm in Morrow county; Marion Weatherford farm in Gilliam county; and Sherman Branch station in Sherman county. These are set up to find out whether Atrazine will perform satisfactorily alone if applied pre-emergence; to compare Amritrol T and Dalapon at three dates of application as a foliage active treatment with Atrazine; to obtain further information on optimum rates for Atrazine on various soil types and to screen other promising compounds for use in chemical fallow. These are added to six 1961 trials in Umatilla, Morrow, Gilliam and Sherman counties that were set up to make observations regarding crop injury and

weed control in grain following chemical fallow and to obtain yield of selected treatments at these certain locations. There is a long-time experiment on chemical fallow at the Pendleton experiment station set up to determine whether tillage is necessary when weeds are controlled chemically and to determine the optimum time and number of tillage operations necessary.

In the selective control of cheatgrass in grain there is a screening trial at the King Pilot farm in Umatilla involving 144 plots. There are, in addition, one and two acre plots of Avadex at three rates on two ranches each in Umatilla, Morrow, Gilliam and Sherman counties. These are set up to determine if Avadex will prove to be acceptable in controlling cheatgrass in grain and to continue the search for cheatgrass herbicides with sufficient safety factor for use in grains. Broadleaf control in grains continues with a screening trial at the Pendleton Experiment Station using approximately 100 plots. These are aimed at controlling tarweed and corncockle, Penny cress, wild mustard and lambs quarter from wheat and barley and are aimed at evaluating combinations of different materials and to continue the search for less volatile and more effective broadleaf herbicides. Low volatile ester 2, 4-D, is compared with butyl ester, fall spraying is compared with spring spraying and a promising herbicide, ACP 62-177, is being evaluated. There are plots to determine the tolerance that wheat and barley has from various rates of several chemicals and combinations of these materials applied at various stages of growth. Trials are also set up to determine best control methods for purple mustard and growmold and other weeds that are relatively new in the area.

For the control of weeds in alfalfa six locations have been set up to demonstrate general weed control in established alfalfa, two locations include nine herbicides applied at three dates, four locations include five herbicides applied at one date; these locations ranging from Heppner to near Milton-Freewater. These are the ones which were established last week here. There are dodder control trials, dodder having become one of the difficult to control alfalfa parasites. New types of herbicides are being tested. A long-time experiment has been set up in the Umapine District to compare tillage versus chemicals in their effect on hay yield and seed yield, they attempt to determine the affect of various treatments on the stand of alfalfa over a period of time; comparing minimum tillage with maximum tillage program; and to obtain information on the desirability of taking off a hay crop preceding a seed crop. This should be of much interest to Morrow county alfalfa growers, especially the information relative to chemicals vs. heavy spring tooting of alfalfa each year and its affect upon the length and type of stand.

Morning Glory control plots for 1962 were established in Umatilla, Sherman and Wasco counties. The objectives of these were to compare 2,4-D amine and Bine-trol at low and high rates, to evaluate other formulations of 2,4-D, to compare TBA with other benzoic-type compounds on the market and to determine the effectiveness of Banvel D at low rates. Bindweed trials established over the past number of years in all of the counties are evaluated periodically. Weed control in peas consist of screening trials in the Athena-Weston area to evaluate materials such as Carbyne, Avadex, etc., for the control of wild cat and broad-

Kathy Keene Writes Khrushchev of 4-H Work

Does an 11-year-old appreciate the privileges of living in the United States, and "Knowing when they have it good?" Ask Morrow county extension agents, Kathy Keene, member of the Busy Bees 4-H club of Ione, has some feeling about this matter and wrote her "4-H Story" (part of the yearly 4-H records) in the form of a letter to Mr. Khrushchev, Kathy is daughter of Mr. and Mrs. Bryce Keene of Ione.

"Dear Mr. Khrushchev," she began, "I am a 4-H girl from Ione, Oregon. I would like to tell you about 4-H clubs and hope that you will start a 4-H program in the Soviet Union."

She went on to say that there are 42 4-H clubs in Morrow county with more than 350 members in Oregon alone, she expounds there are more than 30,000 4-H members, taking three main projects—clothing, foods and livestock.

"Now I would like to tell you a little about my 4-H year," writes Kathy. "I was a member of the Busy Bee Clothing club in Ione. There were five members in my club. I am in the third year of 4-H clothing. For my project this year I made a pair of TV slippers, an apron and a skirt."

"Last winter," she continues, "the girls in my club held a traveling food sale at Ione during a hard snowstorm. With the money we made we bought a set of flags (American and 4-H) for our 4-H meetings and a scrapbook for our 4-H memories."

Such activities as officers training day, to learn some parliamentary procedure, modeling day, to gain more self-confidence, and National 4-H club week, to publicize the program; were described in detail so Mr. K. would know what was all done in a 4-H year.

"The county fair was in August," resumed the 4-H ambas-

ador. "I was in a 4-H judging contest and the style revue where I modeled the skirt I made. Our club put up a booth on the theme of 'The Busy Bees' (club name). We received a blue ribbon and \$25.00. We gave the money to the International Farm Youth Exchange fund (a 4-H program sponsoring the exchange of U. S. and foreign young people for a 6-months period). This will help world peace."

"I have learned a lot and I think 4-H is great," glows this Busy Bees member. "Please Mr. Khrushchev, won't you consider starting a 4-H program in your country?"

"We're sure Mr. K. has some youth clubs in Russia," comments



"PLEASE MR. K.—" writes Kathy Keene, Ione, 4-H club member, "won't you consider starting a 4-H program in your country?" She told the Russian premier of the 4-H program in Morrow county. Kathy is shown here with a picture of Khrushchev.

Esther Kirmis and Joe Hay, Morrow County Extension agents, means the same as it does in the United States.

of head, heart, hand and health means the same as it does in the United States.

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To improve service from your local electric system, new equipment has been installed in the Heppner-Hermiston substation. Service to the Heppner area has to be interrupted while it is being hooked up.

The time between 3 A. M. and 5 A. M. on Sunday has been chosen for this work because it is the period of lightest use of electricity and so will cause the least inconvenience to customers. Thanks for your cooperation.

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leaf control of peas. Miscellaneous experiments include the branching knapweed plots established on Skinner Creek in Morrow county and will be evaluated for residual control from the 1962 trials as well as possible work further on timing and rate of 2,4-D. There are bermuda grass and saltgrass control plots in the Milton-Freewater area. Johnson grass control in Milton-Freewater, chemical seedbed preparations for flax and safflower, weed control in spring seeded flax, roadside treatments of four or five materials on sandbar and puncture vine, Russian knapweed control, miscellaneous experiments with CCC, a growth retarding chemical and weed control in sugar beets. It is amazing the amount of trials that Arnold has been able to establish and service with the assistance of County Agents in these areas and the amount of information that we are getting which can be passed on to our farmers as practical recommendations. This is just one of the programs of results from research and Extension.

Chancellor to be Guest Speaker at Conference

The county agent staff will be attending the annual all-staff conference at Corvallis on December 4, 5, 6. An interesting program has been prepared aimed at professional training during the three day session. There will be speakers and group meetings to consider implications of cultural change for the extension program, staff and organization; subject matter forums in animal genetics, hormones and light in plant growth, and human motivation. Dr. Roy E. Lieuallen, Chancellor of the State System of Higher Education, will speak on "community colleges in relation to the state system of higher education" and Federal Extension Director, E. T. York, will explain "Extension Role in Economic and Social Development."

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Shellac is produced from the secretions of the lac insect a type of scale occurring on fig banyan and other plants in Formosa, Ceylon, Indo-China, India and the Philippine Islands.

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