

Johns - Baer Wedding Vows Exchanged



Jackie K. Johns and David E. Baer exchanged wedding vows Sept. 20 at the First Assembly of God Church in Lewiston. The pastors A. L. Batterson and Rick Block officiated at the impressive ceremony.

Attending the bride were Maid of Honor Julia Wright and bridesmaids, Kim Spencer, Kari Strand and Dawna Deeny.

Best man of the groom was a brother, Reiny Baer. Groomsmen were John Baer, brother of the groom; Kip Johns, brother of the bride, and John Kennedy.

Flower girl was Genette Myhre and ring bearer was Reid Schmadeka. Candlelighters were Nancy Baer, sister of the groom and Diane Havemann.

Rev. Steve Lazzari, Rev. Kyle Dye, Steve Williams and Brett Harwood served as ushers.

Greeters were Lisa Baer, sister of the groom, Pam VanKomen, Kris Olson and Jeanne Fritz.

Peggy Bateman was in charge of the guest book.

Musicians were Wilma Wright, organist; Tim Johns, brother of the bride, pianist; Dave Baer, trumpet and Julie Ridinger, flute.

Soloists were Judy Garcia, sister of the groom, Mike and Beth Ward and Jackie Johns.

A reception was held at the Fireside room in the church. Parents of the couple are Fran and Don Johns and Harold and Caroline Baer, all of Lewiston. Grandparents are Ed and Olive Dammarrell of Kendrick and Viola Johns, Juliaetta.

Genesee Booster Spaghetti Feed Set for Dec. 7

The annual Spaghetti Feed for the Genesee Boosters will be held on Sunday, December 7, 1980, in the Genesee High School Multi-Purpose Room from 4:00-7:00 P. M.

The proceeds from the Spaghetti Feed are used by the Boosters to support various activities of the High School. The activities supported have included Athletic, Music, Drama, as well as two scholarships given every year by the Booster Club. These scholarships are divided into two categories. One strictly based on academics and the other given to a young man or young woman interested in trade school rather than an academic program for future education.

The price of the tickets is \$3.00 for adults; \$1.50 for children, kindergarten through the 6th grade, with those under school age being admitted free. Also this year, for the first time, a Family ticket will be sold for \$10.00 with the number being unrestricted to the members of one immediate family.

Jr. Miss Program Was 'Unforgettable Experience' for Lori

Lori Frary, Kendrick - Juliaetta's Jr. Miss, returned home Saturday night from the State Junior Miss Scholarship Program tired but full of memories she will cherish forever. Elk River's Jr. Miss Kelly Kreisher was crowned Idaho Junior Miss for 1981. Kelly will represent the State of Idaho at America's Junior Miss Program to be held sometime next year.

Some of the activities Lori was involved with was a style show held Nov. 15 at the David's Center. There she modeled her dress she sewed for the Simplicity Contest. She attended the U. of I. football game that evening. The girls were kept busy every minute of the week either attending luncheons sponsored by local organizations in the Moscow area or rehearsing for the program.

Lori's host family for the week were Mr. and Mrs. Gary Bennett. Saturday morning, Nov. 21, a no-host breakfast was held at the University Inn. At this time the girls were able to see their parents for the first time since they arrived in Moscow. Lori's parents, John and Donna Frary, Jr. Miss Committee President Mary Lou Taylor, and Debbie Klatt attended this breakfast.

Awards were given to local programs. The most Improved Program in the State of Idaho went to Kendrick-Juliaetta's Jr. Miss Scholarship program. Best large town program went to Aberdeen and Best Small Town Program went to Marsh Valley. Mary Lou Taylor would like to give a special thanks to all the local merchants who so willingly gave to the scholarship fund for our program. She would also like to thank all the members of the Jr. Miss Committee who gave of their time to help make the local program such a success. It is because of all these people that the Kendrick-Juliaetta Scholarship Committee was given this award of the "Most Improved Program" in the State of Idaho.

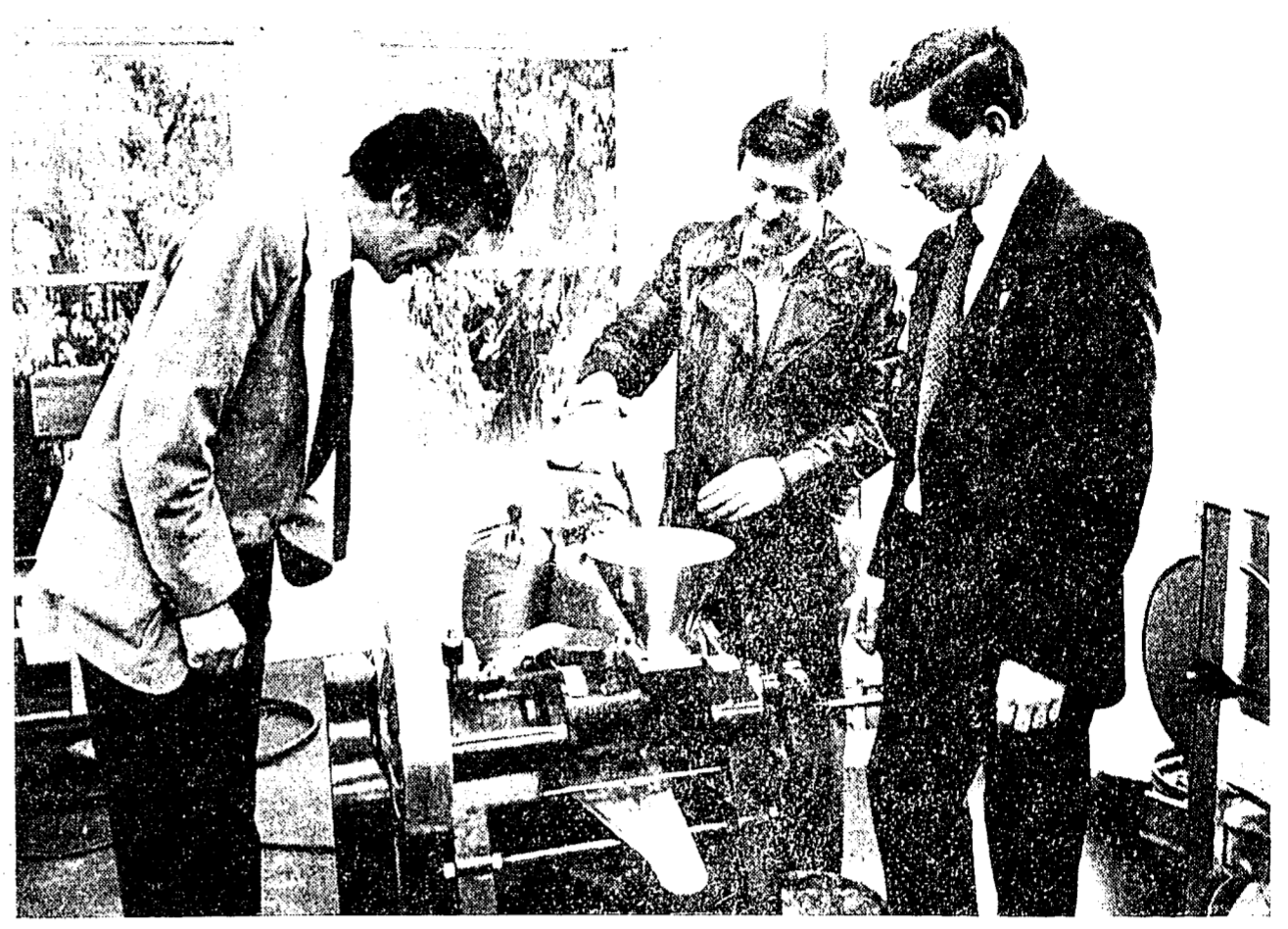
Genesee Civic Association Meets December 4

The Genesee Civic Association will hold their December 4 dinner-meeting at the Valley church. Dinner will be served at 6:30. The program will be in charge of Don Springer, who will narrate and show slides of the Springers recent European tour.

Genesee Man Received Training In Psychiatric Nursing

Nursing students from Lewis-Clark College recently began a month's training at State Hospital North in Orofino as part of their work toward RN degrees. Left to right sitting they are Craig Hopkins, of Genesee, Jami Stockham of Caldwell, instructor Lynda Evenson of Lewiston and Robin Creaser of Orofino. Standing Mary McHargue, Cindy Moe, Donna Courtney, Dee Holder, and Judy Schmidt, all of Lewiston and Dianna Eckermann of Orofino.

Kendrick Firm Donates Vegetable Oil Expeller to U. of I.



Marlene Fritz, Assistant Agricultural Editor Moscow - A new vegetable oil expeller will provide the "missing link" in UI experiments assessing the feasibility of vegetable oil as a diesel fuel replacement.

The Japanese-made machine, worth about \$4,500, was recently donated to the College of Agriculture by George F. Brocke, Jr., manager of George F. Brocke & Sons, Inc., of Kendrick.

The machine removes oil from crops such as winter rape, safflower

and sunflower. Previously, UI scientists had been forced to purchase oil from a California firm.

"This is the other link that we didn't have," said Charles L. Peterson, UI agricultural engineer. "Without it, there was no way for us to grow the crop and see how much oil we were producing. And, it not only gives us the oil, it also gives us meal which has feed value we need to study."

Peterson said the agricultural engineers must now develop a filtration system that will enable the oil to be

used in a diesel engine and a system to preheat seeds for improved oil recovery.

Brocke, who has been in the rapeseed business for 30 years, is confident that rapeseed can be used in place of diesel fuel. But he said research results must be available to back up the product when economic conditions warrant its use.

"Time is very important," he said. "Even if it takes two years for the price of diesel to justify the use of rapeseed oil, the research must be done."

Many Topics Discussed, Plans Made At November 18 Meeting of Grange

Twenty-seven members of Kendrick Grange and 4 guests met at the hall at 8 p. m. Tuesday, November 18.

Dr. "C" Ellistad, a chiropractic Dr. from Moscow, accompanied by his wife, spoke and demonstrated nutrition testing via applied Kinesiology study of motion and muscle. He spoke of cholesterol and the effects of different foods and vitamins. He stressed the use of alfalfa and lentil sprouts in the diet and distributed a recipe containing lentil sprouts. He also spoke on allergies and stated half of the people are allergic to wheat. He presented a most interesting program.

C. W. A. Ruth White announced her committee for the following year will be Ruth Heimgartner, Ruby Craig, Elsie Onstoft, Jo Benschoter, Coryell Wolff and Hennie Reil.

Master Ross Armitage made several presentations to C. W. A. Ruth White consisting of awards sent from the Idaho Grange State Convention. Ruth received 2 ribbons on her C. W. A. Recognition Book; a blue ribbon for first in the state and a purple ribbon for best of show. The book was sent to National for further competition.

Kendrick Grange 413 received a certificate of appreciation from Care for their donation.

Ruth was also presented a check for \$5.00 from Idaho State Grange for having reached their quota of entries in the sewing contest. (Kendrick Grange).

Ruth made a presentation of ribbons received by contestants of Kendrick Grange on the State level for the 4th annual toy contest. Lovely blue ribbons for 1st in the State were earned by Karen Johnson, Class B and Karla Johnson in class A.

Both girls are children of Mr. and Mrs. Dave Johnson of Lewiston. Presentation was made to their grandparents, Mr. and Mrs. Lawrence Heimgartner. It was announced that Kristen Kirkham, daughter of Mr. and Mrs. Steve Kirkham is recipient of a beautiful red ribbon for second place in the state in Class A. Congratulations, girls! Their contest is co-sponsored by Poly-fit and Simplicity Pattern Co.

Kendrick Grange received an invitation from the Masons for the annual Christmas party to be held Sunday, Dec. 7th at the meeting room of Fraternal Hall at 2 p. m. A gift exchange with a dollar limit will be held. Everyone is asked to bring a

gift and mark it man, woman, boy or girl.

All women of the Grange and Eastern Star and wives of Masons are requested to bring cookies for this festive occasion.

The theme of the Christmas program is to be "Christmas Around the World."

Anyone having a number to help with the program is asked to please contact Lecturer Grace Ingle.

The date for decorating, sacking candy and making popcorn balls for the occasion has been set for Saturday, December 6th at 9:30 a. m. at the hall.

A report was made on Pomona Grange which was held at Troy on Nov. 8th. Forty-five members were present. Visitation program was announced. It was voted to replace the Jamboree with a bus trip to National Grange at Spokane in November, 1981 to attend the 7th Degree. The 5th Degree will be exemplified by Pomona at Kendrick in May. Princeton and Rock Creek will have the food booth at the Latah Co. fair next fall. The auction sale will be held again this year.

Pomona C. W. A. Grace Curtis, now living in Elk River was also present and announced that since the elimination of the Jamboree would cost the C. W. A. out of her cake walk income Pomona was asking each Grange to have a money making project for Pomona C. W. A.

Our 4th guest of the evening was Elma Patrick of Kamiah Grange.

Refreshments were served by the serving committee.

Dick Benjamin announced that Santa Claus will make his annual visit to Kendrick at 1 p. m. on Dec. 20th. The annual turkey drawing will be held. There will be a free show for the children at the Fire Hall following Santa's visit.

The next regular Grange meeting will be held at the Grange Hall, Dec. 2nd at 8 p. m.

The program for the next meeting will be the chorus from the Kendrick school and pictures shown by Verne Choate.

Kendrick Grange received an invitation from Moscow Grange for a visitation on Dec. 3 beginning with a 6:30 supper. Kendrick Grange will open and close and furnish the program. All members and officers are urged to go to Moscow Dec. 3 for the meeting.

Reporter: Nell Heimgartner

Annual Mason, OES, Grange Christmas Party Dec. 7

All brothers of Kendrick Lodge No. 26, A. F. & A. M., members of Canyon Chapter No. 87, Order of the Eastern Star and members of Kendrick Grange No. 413 and their families are reminded of the annual Mason, Star and Grange Christmas Party that is to be held Sunday, Dec. 7 at the Fraternal Temple in Kendrick. The time is 2:00 p. m.

Attention Masons—

All brothers of Kendrick Lodge No. 26 are asked to please be present at the Dec. 4 communication for the annual installation of officers with the oyster feed to follow.

A thought from L. Wilson

Lawrence Wilson, a retired Juliaetta educator, after viewing the writing on the KHS school this week, was moved to comment: "Most people aren't morons or idiots, but some of them sure do a good job of advertising it."

Genesee School Lunch Menu

Monday, December 1—	Spaghetti—Meat Sauce	
	Cole Slaw—French Bread	Milk
	Vanilla Pudding	
Tuesday, December 2—	Taco Casserole	Tossed Salad
	Et. Corn	Peanut Butter Cookies
		Milk
Wednesday, December 3—	Barbecue Chicken	
	Augratin Potatoes	Bt. Peas
	Rolls/Butter	Milk
	Mixed Fruit	
Thursday, December 4—	Toasted Cheese Sandwich	
	Tomato Soup	Crackers/Celery
	Rice Crispie Bar	Milk
Friday, December 5—	Turkey Chop Suey over	Rice
	W. W. Rolls/Butter	Pineapple
	Ginger Bread	Milk



Kendrick Firemen's Annual Turkey Ticket Sales Dec. 3

Members of the Kendrick Volunteer Fire Dept. will again be sponsoring their annual Turkey Ticket Sale Next Wednesday evening, Dec. 3 and will have a house-to-house sale drive to offer Kendrick residents an opportunity to win a free Turkey for the holidays.

The sales will begin at 6:00 p. m. and the winners will be announced at Santa's annual visit to Kendrick, probably Dec. 20.

Richard Abrams, manager of Abrams Hardware in Kendrick, was elected chief of the Kendrick Firemen at the annual election of officers held last week. Chas Deobald was elected assistant chief, Rick McGregor captain, Nels Sneve 1st Lt., and Dale Alexander, 2nd Lt.

Hill & Valley Garden Club Prepares for Dec. 10 Sale

Nineteen members and two guests met for an all day workshop at the Club House Wednesday, Nov. 19.

Dried arrangements and bows were prepared for the Christmas Sale Dec. 10. On Dec. 5 and 6, the Club members will be making fresh wreaths and swags.

Donna Weyen and RoseAnn Holt will be taking orders for arrangements about Dec. 5.

The Club welcomes new members Betty Huffman and Suzie Stenzil of Cavendish and Honorary member Minnie Cox.

The Club sent a donation to the Book of Recognition for Roy and Mabel Glenn in recognition of their 50th wedding anniversary.

A delicious dessert was served by Barbara Hepler and Ruth Armitage to top off our sack lunches.

Edith Wells, Reporter

Kendrick-Juliaetta School Lunch Menu

Monday, Dec. 1—	Hot Pork Sandwich	
	Mashed Potatoes and gravy	
	Appetized Mixed Vegetables	
	Tapioca Pudding	1/2 Pint Milk
Tuesday, Dec. 2—	White Beans and Ham	
	Relish and Cheese Stick	
	Banana	
	Cinnamon Knot	1/2 Pint Milk
Wednesday, Dec. 3—	Chicken Rice Pom Pom with	
	Cheese Sauce	
	Buttered Broccoli	
	Baked Apple	1/2 Pint Milk
Thursday, Dec. 4—	Combination Pizza	
	Buttered Corn	
	Apple Sauce	
	Carrot Cake	1/2 Pint Milk

CRAFTS FESTIVAL PLANNED AT U. of I.

Moscow—A creative bunch of students, faculty and staff at the UI and their families will display their handicrafts and perform during Winterfest '80, an arts festival to be held Friday and Saturday, Dec. 5 and 6.

Original oils, watercolors, pottery, weavings and macrame hangings are a sample of what will be displayed for sale, and singers, musicians, dancers and mimes will add a bit of spirit to the Christmas festival.

The festival, to be held in the ballroom of the SUB may be just the place to pick up an unusual Christmas gift, according to Tom Richardson, director of the School of Music and coordinator of the festival.

Richardson said university personnel and their families wishing to display items will be provided with display areas free of charge. Ten percent of sales receipts will be charged to persons planning to sell their work.

The festival will be held noon to 8 p. m. Friday and 10 a. m. to 5 p. m. Saturday. Persons who wish to participate or who have questions can contact Richardson at 885-6231 or Cal Warnick at 885-6429.

Disease-Spreading Aphid Prompts Barley Research Work

Parma—Scientists at 3 UI research and extension centers are testing the effect of barley yellow dwarf virus (BYDV) on Idaho wheat in the face of burgeoning levels of an aphid that transmits the disease.

The oat-birdcherry aphid, one of 5 aphids that attack grain in the state, has developed from an occasional into a major pest, said Guy W. Bishop, research entomologist at the UI Southwest Idaho Research and Extension Center at Parma. He said its damage potential appears to be limiting to transmitting BYDV.

In some years, BYDV has caused total losses in spring grains infested early in the season, said Harry S. Fenwick, UI Cooperative Extension Service plant pathologist. It is now being found extensively in winter wheat but UI scientists are uncertain how much of a threat it poses to that crop. Fenwick said both the symptoms and effects of BYDV can be masked by generous watering and nitrogen applications.

At research and extension centers at Parma, Aberdeen and Kimberly, UI scientists have inoculated winter wheat with BYDV. Some plots were planted on Sept. 1, others on about Sept. 15 and still others on Oct. 1. Bishop said research in other states indicates that BYDV is most damaging in early-planted crops, where it can get a stronger foothold before winter. The UI scientists will be checking for signs of BYDV—yellowing and dwarfing—when wheat emerges in the spring and will compare yields at harvest in August.

The researchers are also attempting to establish an economic threshold for control of the oat-birdcherry aphid or the point at which the amount of damage threatened outweighs the cost of controls. Effective soil systemic insecticides can be applied during fall planting, Bishop said, but the researchers don't know yet whether this practice is economically feasible.

Bishop said the oat-birdcherry aphid, so named because it also attacks

Idaho Pine Martens Go to South Dakota

Thirteen more Idaho pine martens are taking up residence in the Black Hills of South Dakota and later this year some Merriam's wild turkeys should be on their way to Idaho.

If trapping goes well in the two states, 120 birds will eventually be added to Idaho's wild turkey populations, now estimated at about 2,500, and 40 of the furbearers will be introduced in the Black Hills according to Dick Norell, state game bird manager, Department of Fish and Game.

After the swap was initiated last year by the Idaho Department and the South Dakota department of Wildlife, Parks and Forestry, the first 25 turkeys were transplanted in Clearwater and Idaho counties, Norell said.

The 1980 shipment due around mid-December will be transplanted in the Boise River drainage and possibly somewhere along the South Fork of the Salmon River, he added.

"A similar trade started our wild turkey population in 1962-63, when Colorado sent us some Merriam's when they were relocated in the Riggs-White Bird area," Norell added.

The department's policy plan calls for continuing transplants from existing flocks and from wild turkeys obtained from other states when possible.

South Dakota received its first 5 martens last year. This month, two department drivers trucked the 13 martens, all in specially built cages, to Rapid City for delivery to the S. Dakota department.

Hunters to Participate in Annual Phone Survey

The Department of Fish & Game has started its annual telephone survey to gather information about 1980 big game hunting seasons.

As many as 25,000 resident and nonresident hunters will be answering the phone to talk about:

- How many days were spent hunting.
- How many animals were observed per hunting day.
- What management units were hunted.
- Species of animal hunted and species harvested.

"When the results are compiled and analyzed, we will have another management tool to help establish guidelines for 1981 seasons," said Jerry Theissen, state big game manager.

"We will be able to come up with a reliable estimate of all species harvested in general rifle seasons, controlled hunts and by hunters with archery and muzzle loader stamps, and hunters with a variety of big game tags," Theissen explained.

The more sand has escaped from the hourglass of our life, the clearer we should see through it.

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Memorial Day Thru Labor Day

Dave and Barbara Clayton

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Wine Tasting Party

The Annual Wine Tasting Party of the Gritman Memorial Hospital Auxiliary, Moscow, has been scheduled for Friday, December 5, 1980 from 6:00-9:00 p. m. at the Elks Temple in Moscow.

Proceeds from the sale of the tickets will aid the auxiliary's purchase this year in a Semi-automated micro sample spectrophotometer for use in the hospital laboratory testing.

Residents from Moscow, as well as surrounding communities, are invited to attend. Tickets are \$4.00 per person and may be purchased at Carter's Drug, from auxiliary members or at the door of the Elks Temple.

If you are unable to attend, but wish to make a donation, please send a check to Cela McFadyen, Treasurer of the Auxiliary, care of Gritman Hospital.

PUBLIC NOTICES

ESTATE LAND FOR SALE

Bids will be received on or before the 19th day of December, 1980, at 1:00 o'clock P. M. by mail addressed to Russell S. Randall, one of the attorneys for the undersigned owners of the following described property, at P. O. Box 446, Lewiston, Idaho, 83501, or may be delivered to him at the Second Floor of the Bollinger Plaza building located at 3rd & D Streets, Lewiston, Idaho, for the purchase of the following described real property located in Latah County, State of Idaho, to-wit:

Southeast Quarter of Northeast Quarter; East Half of Southeast Quarter; of Section 25, Township 38; Range 4, W. B. M.; Northeast Quarter of Northeast Quarter; Southwest Quarter of Northeast Quarter; Southeast Quarter of Northeast Quarter; of Section 36; Township 38, Range 4, W. B. M., in Latah County, Idaho.

consisting of 240 acres, more or less, of which approximately 221 acres are in cultivation, formerly owned by the estate of Edith S. Clark, deceased, located ten (10) miles east of Genesee, Idaho, and seven (7) miles west of Juliaetta, Idaho, on Fix Ridge, Latah County, Idaho. The property is improved by a house, machine shed and well.

Terms of sale are as follows:

1. Cash or on terms acceptable to bidder and the undersigned owners. If bid is upon terms, the terms must be specified in the bid as to payments to be made and the interest rate to be paid.
2. Ten (10%) percent of any bid submitted must accompany the bid. If the bid is rejected the ten (10%) percent submitted with the bid will be returned to the bidder.
3. If the bid is for cash, the full purchase price must be paid within a reasonable time from the acceptance of the bid to give the purchaser time to arrange financing. Payment date will be determined at acceptance of bid.
4. The sale of the said property will be subject to an oral year to year lease upon the said property to Frank Heimgartner. Possession will be given upon completion of the harvest of the 1981 crop.
5. The landlord's share of the 1981 crop is to be reserved to the undersigned owners of the land.
6. 1980 taxes and prior shall be paid by the undersigned owners.
7. Title insurance policy in customary form showing said property free and clear of all liens and encumbrances except rights of way for public roads and utilities and easements of record will be furnished to purchaser.
8. If the sale is for cash, concurrently with the payment of the balance of the purchase price, the undersigned, as owners of the said property, will execute and deliver to purchaser a warranty deed in customary form. If the sale is to be made on terms, an executory contract in customary form, together with a warranty deed, will be deposited in escrow in a bank acceptable to the undersigned and the purchaser.
9. The undersigned owners of said property reserve the right to reject any and all bids.
10. If a bid is submitted by mail, mark "BID" on the envelope. All bids will be opened at the office of Russell S. Randall, Bollinger Plaza, 3rd and D Streets, Lewiston, Idaho, on the 19th day of December, 1980, at 1:00 o'clock P. M.
11. Clyde I. Sweet, one of the undersigned owners, whose telephone number is 743-6200, Lewiston, Idaho, will show the place upon appointment to any prospective bidder.

DOROTHY SWEET SEARS,
CLYDE I. SWEET
LEO HEIMGARTNER

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Biofuels: Boom or Bust In Pacific Northwest

Marlene Fritz
Asst. Agricultural Editor

Moscow—Biofuel production has caught the imagination of many Pacific Northwest growers, but is it practical, will it pay for itself, and what's the best way to go about it?

The University of Idaho College of Agriculture, in association with the colleges of engineering and forestry, will explore the potential of biofuels in the region and attempt to answer these questions at a technical workshop Feb. 24 and 25 on the University of Idaho campus in Moscow.

The workshop is aimed at producers and processors of agricultural and forest products; at production, management, financial and governmental employees advising these industries and at individuals interested in biofuels.

Speakers at the conference—entitled "Biofuel Potential in the Pacific Northwest: A Technical Workshop"—will offer critical analysis of alternative biofuel systems and will examine the feasibility of producing and using biofuels for industrial applications in the region.

The university, government, industry and banking representatives directing mini courses will provide technical information on production, processing, utilization and economics of alcohol, wood biomass and vegetable oils as biofuels. They will emphasize cereal grains, potatoes, sugarbeets, safflower, sunflower, rape seed and wood.

Speakers will examine the role biofuels could play in making the Pacific Northwest less dependent on imported energy and will review government incentives and potential financing of biofuel-producing operations. Social and environmental issues associated with biofuel production will also be addressed.

A \$50 registration fee to include lunches, refreshments and written proceedings will be charged for the two-day workshop.

For registration information, contact Conference Coordinator University Continuing Education, UI, Moscow, Idaho 83843; telephone 208/885-6486. For program and technical information, write or call the

Search Is On for Farm-Grown Fuel

Clifton Anderson
Associate Agricultural Editor

Moscow—Some backyard gardeners take pride in growing giant sunflowers, but bigger is not better so far as commercial growers are concerned. UI agricultural researchers say new dwarf varieties of sunflowers are expected to find favor with farmers who have encountered problems in harvesting tall-growing varieties.

"The ideal sunflower for dryland farms in our area will mature in mid August. It will be a dwarf, the right size to be harvested directly with a combine," said Dick Auld, UI agronomist and plant breeder.

Several commercial hybrids that were evaluated in this year's national sunflower trials appear to be very promising," Auld reported.

Agricultural scientists in Idaho, Washington and Oregon are working in close cooperation as they seek ways to make the growing of sunflowers and other oil-seed crops more profitable for Pacific Northwest growers, the UI scientist added.

Auld said oil-seed crops are likely to become increasingly important because vegetable oil can be used for food purposes and also as tractor fuel. He said current research at the UI College of Agriculture is aimed at these goals:

Testing the use of vegetable oil as a fuel in diesel engines.

Studying methods for on-farm processing of vegetable oil from sunflower, safflower and rape-oil-seed crop which performs well in the Pacific Northwest.

Evaluating yields of dwarf sunflowers and improved varieties of other oil seed crops.

Trying to find a winter-hardy safflower variety than can be planted in the fall.

Screening new varieties of winter rape, in quest of a variety that will be superior both in its yield of high-quality oil and in the feeding value

of its oil-meal.

With oil-bearing seeds presently in strong demand, sunflowers, safflower and rape are seen as attractive cash crops by some growers in dryland farming areas, Auld said.


"Vegetable oil also offers farmers the prospect of gaining independence and self-sufficiency regarding their fuel needs. In the future, if an emergency arises and diesel oil becomes unavailable, farmers might keep their diesel tractors in operation with homegrown vegetable oil," Auld said.

Production of oil-crops is not difficult and farmers will be able to process vegetable oil "much more readily" than they could distill alcohol, the UI agronomist pointed out.

At present, vegetable oil is "not an economically alternative" to diesel fuel and researchers will have "unanswered questions" concerning the longtime effects of using vegetable oil in diesel engines, Auld emphasized.

"Agricultural engineers say it's possible that fuel additives may have to be added to vegetable oil to prevent damage to diesel engines. They are also considering engine modifications as a means of improving utilization of vegetable oil as a fuel," he said.

Judge a man by his questions rather than by his answers.—Voltaire



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FARM & RANCH CHRONICLE

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Volume 4— Number 2

Nov. 27, 1980

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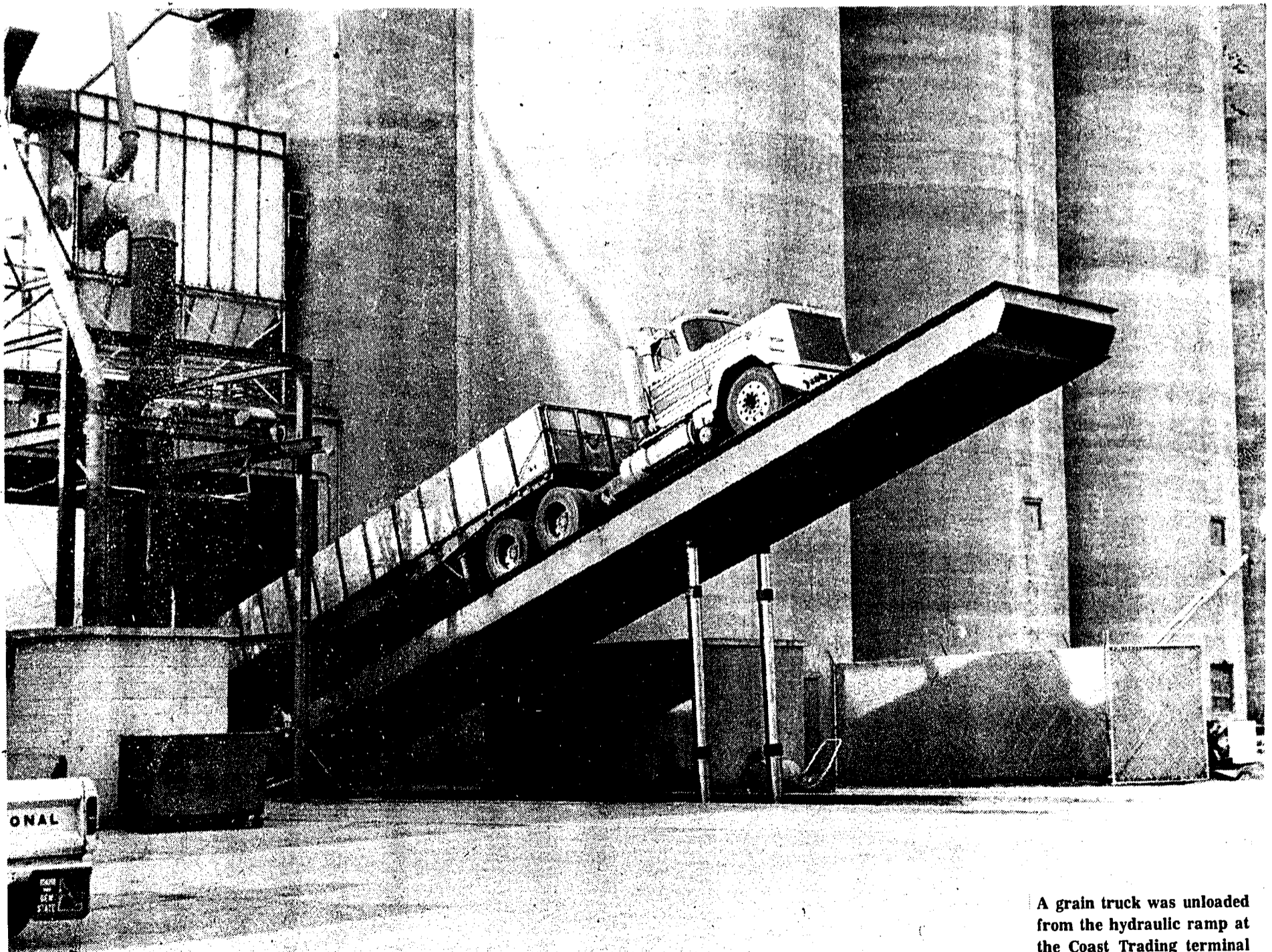
Serving Agriculture

DON'T MISS INSIDE —

Gary Gresseth family raises own holiday dinners

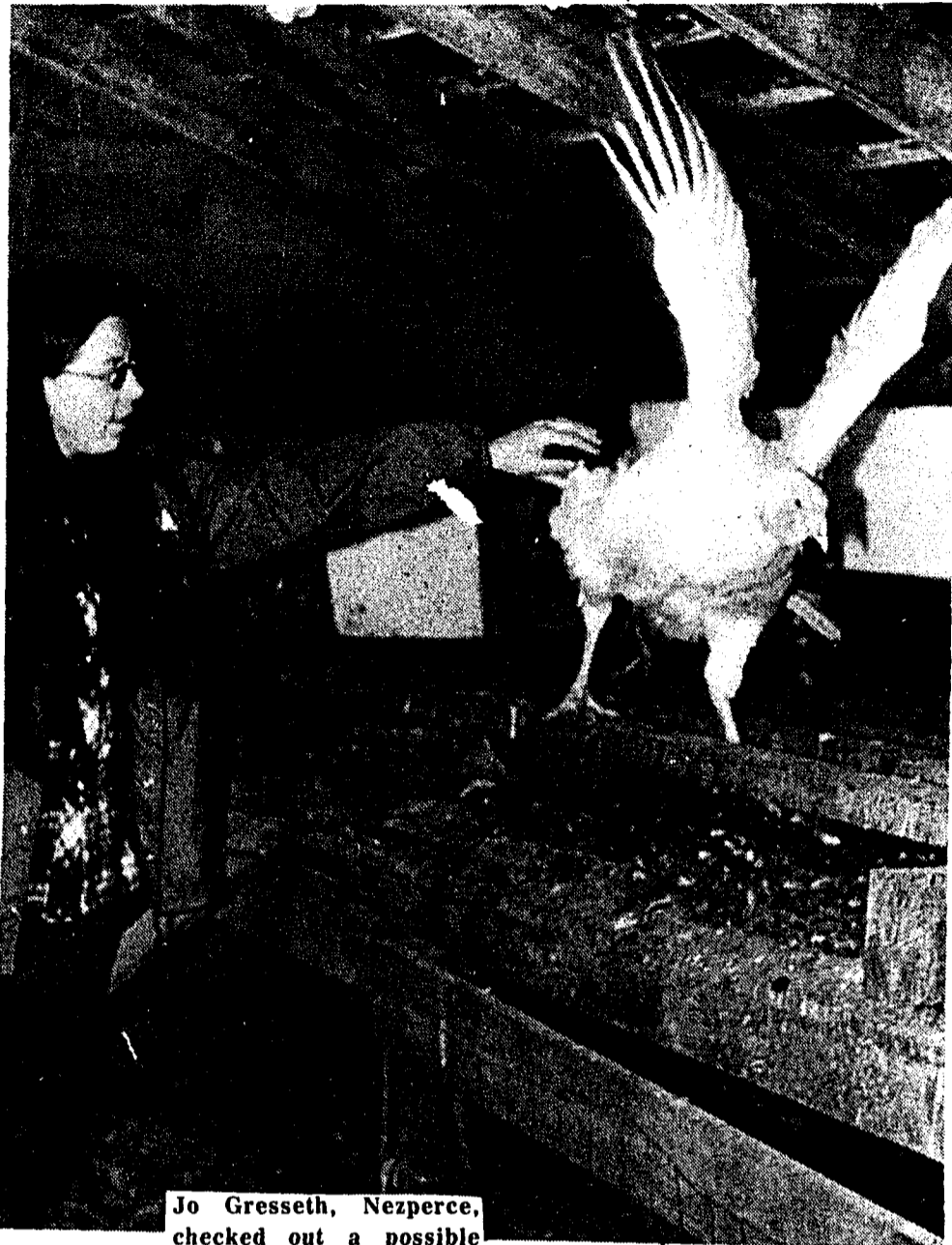
Hog marketing co-op potential reviewed

Grain inspection station visited



A grain truck was unloaded from the hydraulic ramp at the Coast Trading terminal at the Port of Lewiston. (Photo by Susan Tiede.)

The Gresseths raise own holiday meal



Jo Gresseth, Nezperce, checked out a possible Thanksgiving meal or perhaps Christmas.

them in with the chickens. We've heard never to mix turkeys and chickens, but we never had any problems," she said.

They have an organic gardening book which has a poultry section which they've used in their poultry projects.

White turkeys are also supposed to be harder to raise than the more traditional looking gray turkeys.

Jo's parents in Montana had gray turkey roosters, which were mean, she said. "Our turkeys are very docile."

Gary refers to their white turkeys as beautiful, quiet giants.

The turkeys seemed smarter than a turkey's reputation. They were curious about what a camera was doing watching their every move at the feeder.

The turkeys made quiet noises while they ate or roosted, but they haven't made the traditional gobbling sounds yet, Jo said. She wasn't sure they were old enough yet.

"We fed them turkey starter when they were chicks as it is higher in protein, but now they eat with the chickens," Jo said.

Tim Gresseth, a sophomore at Nezperce High School, is in charge of feeding and watering the poultry plus marketing their surplus eggs.

They already have butchered one of the turkeys and it dressed out at 15 pounds so they expect these to be larger as they are older.

"Turkeys are a hobby," Jo said. "Gary wanted some chickens as he had been raised on a South Dakota farm. When we moved here, we found the farm house near the Clearwater River canyon northeast of Nezperce."

They moved here three years ago when Gary became school superintendent at Nezperce. It gave them room to raise chickens and they added geese, ducks and turkeys this year.

They got their start in chickens with several different breeds from Jean Bateman of Nezperce. The Gresseths now have a 70 egg incubator and raise their own chickens from the flock.

They save eggs from their purebred Hamburg or other purebred hens for hatching.

They pen select pairs together and save those eggs for incubation. They have both purebreds and selected cross chickens. Eggs from the rest of the flock go for eating, selling or are traded

for milk. If they have a banty hen that wants to set, they will give her the eggs just as they are hatching and she will raise them as her own, Jo said.

Geese and ducks are the only poultry allowed to roam the farmyard. They're always ready to give visitors a noisy greeting when they arrive.

The geese browse in the yard and garden plus eat gravel from the road. In the summer, they try swimming in their water tank, Jo said.

The Gresseths are planning on saving a pair of the geese, but the other one is destined for the table, maybe as a Christmas goose like the Thanksgiving turkeys.

By Susan Tiede

While most of us headed for the supermarket for our Thanksgiving turkey, a few people have had their turkeys since spring.

Jo and Gary Gresseth of Nezperce are among those raising their holiday meal.

This spring the Gresseths bought some day-old turkey chicks at Benedict Seeds in Lewiston. They also bought some ducks and geese this year.

"The 5 white turkey chicks were only slightly larger than the baby chickens when we got them," Jo said.

"We kept the turkeys under a heat lamp until they feathered out then we put

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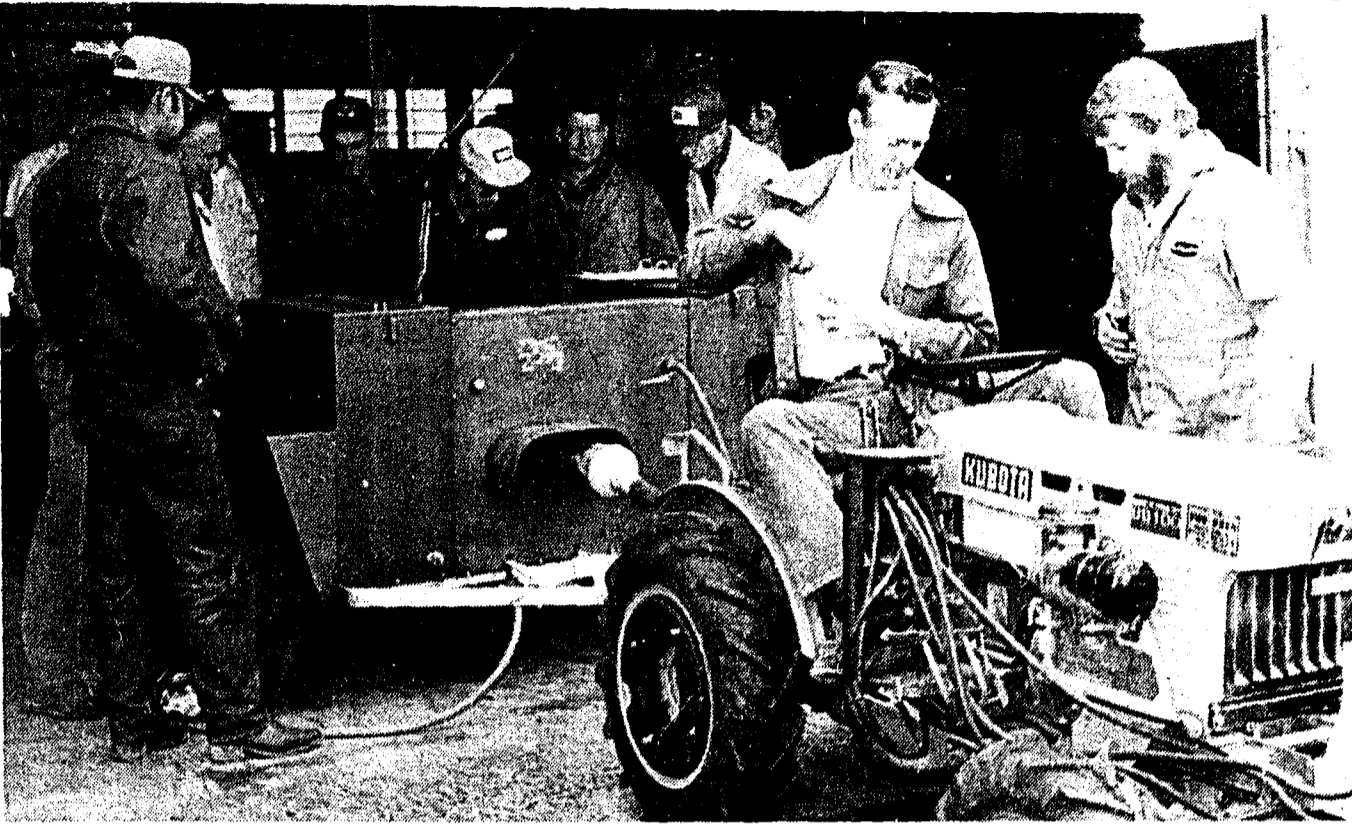
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HIGHLAND ENTERPRISES

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Throttle linkage, fuel injection timing problems common



By Susan Tiede

As farmers' work turned to the shop for the winter, the Idaho Office of Energy and the Cooperative Extension Service sponsored workshops on tractor maintenance and fuel efficiency in the area.

Val Chambers and Verl Bird conducted the classes then ran tests on farmers' tractors to see how they compared with the Nebraska Test Station standards for tractors.

Chambers and Bird are instructors at Eastern Idaho Vo-Tech School in Idaho

Falls.

They used a Hydra Guage Dynamometer which measures pressure and computes it to horse-power.

The tractors had to be equipped with a power take-off unit to be tested.

Check list of items to be tested are:

Tachometer PTO, tachometer engine, belt horsepower, fuel consumption, cylinder compression, water temperature, oil pressure, valve & tappets, piston rings, governor, injectors, fuel pump system, spark plugs,

ignition point or magneto, carburetor, air cleaner, fuel filters, oil filters and main clutch.

Throttle linkage and fuel injection timing were the major problems they found while testing in the area.

Preventive maintenance reduces equipment failure, saves on operating costs, and improves safety, Bird said.

Tractors should have oil changed every 100 hours unless working conditions are unusually dirty then it should be changed more frequently.

Although exact records

Verl Bird, center rear with light cap, and Val Chambers, right, checked out a small tractor on a dynamometer machine.

(Continued to Page 5.)

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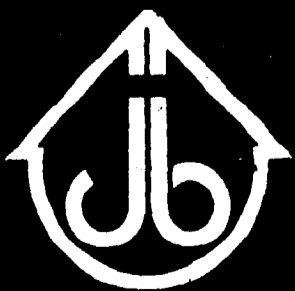
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Machinery donated

A new vegetable oil expeller will provide the "missing link" in University of Idaho experiments assessing the feasibility of vegetable oil as a diesel fuel replacement.

The Japanese-made machine, worth about \$4,500, was recently donated to the College of Agriculture by George Brocke, owner of George F. Brocke & Sons, Inc., Kendrick.

The machine removes oil from crops such as winter rape, safflower and sunflower. Previously, UI scientists had been forced to purchase oil from a California firm.

"This is the other link that we didn't have," said Charles L. Peterson, UI agricultural engineer.

"Without it, there was no way for us to grow the crop and see how much oil we were producing. And, it not only gives us the oil, it also gives us meal, which has feed value we need to study."

Peterson said the agricultural engineers must now develop a filtration system that will enable the oil to be used in a diesel engine and a system to preheat seeds for improved oil recovery.

Brocke, who has been in the rapeseed business for 30 years, is confident that rapeseed can be used in place of diesel fuel.

But he said research results must be available to back up the product when economic conditions warrant its use.

"Time is very important," he said. "Even if it takes two years for the price of diesel to justify the use of rapeseed oil, the research must be done."



Tradition associates pearls with tears and opals with bad luck.

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Tractor tests ...

(Continued from Page 3.)

are nice, the date and hours scratched on the spin-on filter may be better as it and the tractor are right together when you think of checking it.

Turbo engine's air filters need better maintenance as they draw more air than conventional engines.

Air cleaners have dust unloader valves which help with their maintenance, but if the flat side of the valve isn't into the air stream, it pulls in unfiltered air.

Pre-cleaners need emptying when half-full or more dirt goes into the engine. The area around the air filter

needs to be cleaned when the filter is changed or dirt goes directly into the motor and can damage it.

Air intake pipes should be checked for worn spots and loose connections which would let dust in.

Bird advised that turboed engines should be idled about a minute to cool down. The turbines are red hot when working and if the engine is shut off abruptly, the turbo can run out of oil, ruin the shaft and distort the turbo fins.

Crankhose vent tubes may be plugged and blow oil out around the gaskets, so the tubes must be kept clean.

Go easy on either as a starting aid, Bird advised. Too much ether can break pistons and rings. Current ether products aren't 100 percent ether as earlier products were.

Fuel tanks are one of the most neglected areas of fuel efficiency and care.

Equipment fuel tanks should be filled on cool evenings as partially filled they can draw condensation and cause problems. It is a must to store equipment with a full fuel tank.

Carburetor, air cleaner, fuel can lose 9.6 gallons of fuel to evaporation in 30 days.

Silver tanks would lose 6 gallons in that time, a roof would reduce it to 2.4 gallons, a vacuum relief vent

would further reduce it to 1.3 gallons.

Buried fuel tanks are best for fuel savings. If an overhead tank has a higher hose end, any water condensation goes to the other end.

Multiple grade oil is pretty good, Bird said, but added they didn't know much about synthetic oils. There aren't any petroleum in it to break down, but what would happen to the acids?

Transmission and hydraulic filters should be changed once a season. It's time to change when the oil smells burnt.

Oil funnels and spouts should be kept clean to avoid adding dirt along with the clean oil.

Turning to engine coolant, Bird said radiators should be kept as clean as possible. Anti-freeze should be changed when it gets cloudy. Rust inhibitors should also be kept up. If the anti-freeze is clear, a rust inhibitor should be added. A 50-50 mix of antifreeze-water is the best conductor of heat.

Val Chambers talked on maintenance of electrical systems, tires, clutches and hydraulics.

Looking at the gauges is one of the best performance tests.

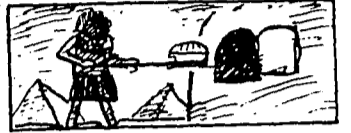
Batteries should be kept clean. Dirt can run the battery down. It is best to store a battery fully charged for the winter. A run down

battery can freeze just like water.

Charge batteries on high for 15 minutes to jar the acid crystals loose then a long time at low to melt them.

The clutch should have 1½-2 inches of freeplay before it contacts the pressure plate. If the clutch isn't adjusted properly, it slips.

When using the hydraulics, the connectors need to be cleaned better than wiping on your pants to keep the fluid clean, Chambers said.



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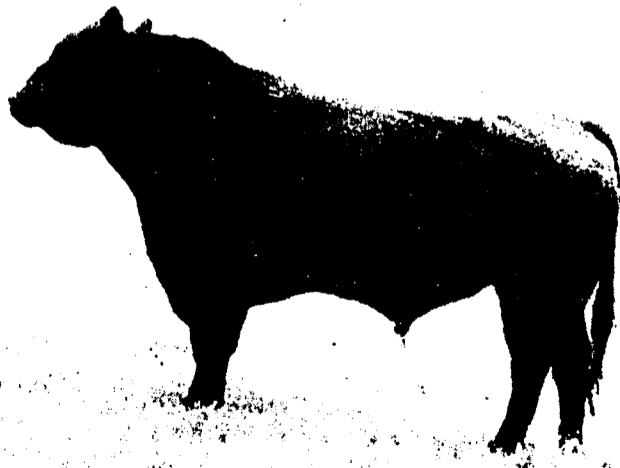
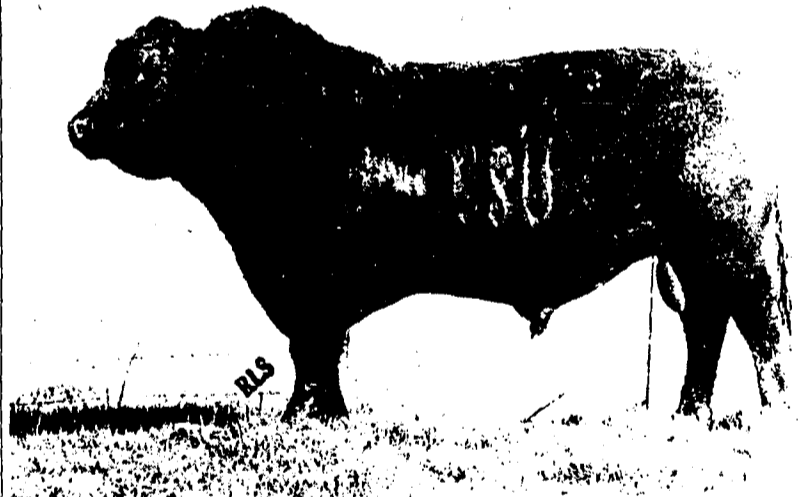
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By Susan Tiede
 The Lewiston grain inspection station processes 12,000-25,000 samples of grain each year. The grade determines the price the grower will receive based on quality.

Grading involves 19 steps, according to Ed Matchey, chief inspector. That includes everything from the first weighing to the final typing of the certificate.

July through October is their busy season when they have up to 23 workers starting at 8 a.m. and working until they get done.

The rest of the year there are 7 workers. Right now only two elevators are sending in samples. The Lewiston station grades samples from Whitebird to the Canadian border plus a few in Washington and Oregon.

Matchey ran a sample through the grading process.

They start with 1300 grams from the white sacks sent from the grain elevator with grain from each load the farmer delivers.

The sample is "split down" in a funnel shaped device that is divided into 64 sections. Thirty-two sections go in each spout to insure the sample is well mixed.

Thirty grams are tested for damage. Although they test for moisture content, it

isn't figured in the grade, Matchey said.

Dock is figured on anything smaller or larger than an average wheat kernel which includes weed, seeds and chaff. Dockage is cleaned out and thrown away.

Samples are run through sieves similar to those in a combine. A fan helps get out the chaff and dust which is weighed.

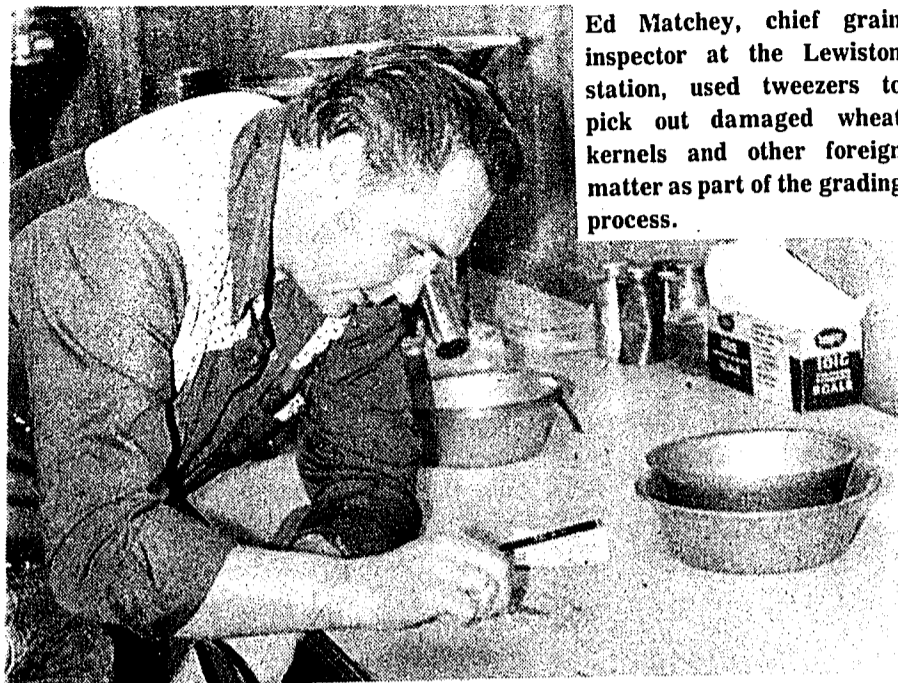
The sample is weighed to determine the pounds per bushel. It's supposed to be 60 pounds, but some go 56 and some years it's closer to 64.

It is split down again and run through a shaker. The sample is shaken 30 times in the machine to get out shrunken, broken, and cracked kernels. Those are weighed for the grading factor.

It is split 3 times to get the 30 grams for the damage factor. The foreign material such as green kernels and weed seeds are taken out with tweezers.

"We get a lot of rye. They must have raised it here at one time," Matchey said. The soft white wheat may have a few kernels of hard red wheat in it without being a problem, but a sample of red wheat shouldn't have the white kernels in it due to the protein difference.

The grain inspection



Ed Matchey, chief grain inspector at the Lewiston station, used tweezers to pick out damaged wheat kernels and other foreign matter as part of the grading process.

Garbanzo beans are pos

Garbanzo beans—also known as chick peas—may become an important cash crop for farmers of northern Idaho and eastern Washington.

Dick Auld, University of Idaho agronomist and plant breeder, said the legume crop's adaptability to the Palouse region is being studied by researchers at the UI and Washington State

University.

Although garbanzo bean production is now centered in California, some varieties appear to grow well in northern regions.

"In Canada, an active program is underway to promote production of garbanzo beans," Auld said.

In northern Idaho and eastern Washington, gar-

banzo beans might fill the place that green peas have occupied in crop rotations.

"To raise garbanzo beans, a farmer uses about the same cultural practices as with peas or lentils. The crop matures in late August or early September. Yields are similar to those for green peas and the market price




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employees are licensed for the different machines. They have to pass written, oral and working tests plus fill out forms before they can be licensed.

Matchey, an inspector for 22 years, said the most specialized station is the tweezers picking out foreign materials.

Wheat has 5 grades plus sample grade. Number 1 wheat allows 3 percent shrunken or broken kernels. Over 3 percent is number 2.

Grain grading is covered by seven notebooks full of regulations which also change fairly often, Matchey

said.

Wheat is 80 percent of their work with barley being the majority of the rest which also includes oats, Montana sunflowers and corn.

The red wheats have protein levels checked, but white wheats don't.

Thirty grams of wheat are ground through a mill to make a flour for red wheat protein tests. Glass covered cups are put in the \$19,000 Infra Analyzer. Ten to 15 seconds later, the computer lights up with the protein and moisture of the sample.

The machine, which is about the size of a

microwave oven, can also do oil content and sprout levels.

An average sample takes about 20 minutes to grade, but one with a lot of damage can take up to 1½ hours. It costs \$3.50 to run a sample.

Samples are kept four days in case they want it re-graded.

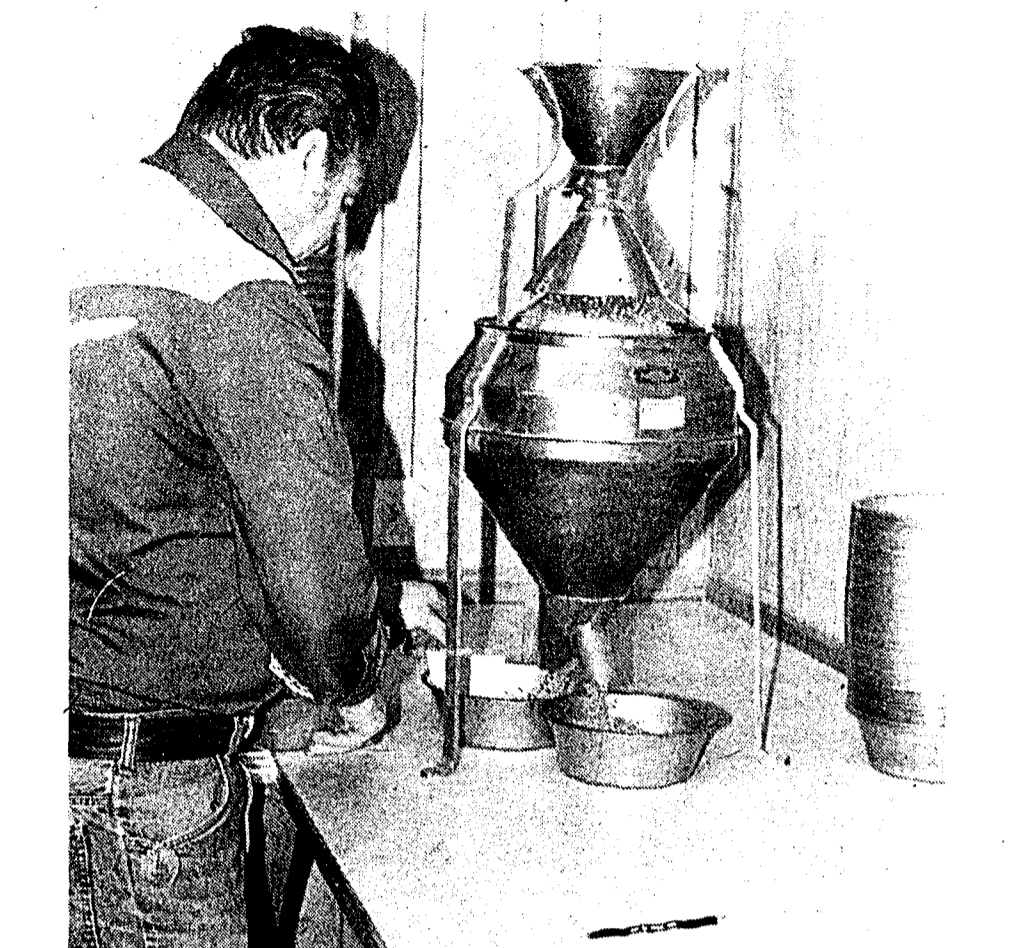
They only get a few samples from farm storage which puzzles Matchey. He feels samples are a good way to see what's going on in the bins.

When they grade barley, they have to run germination tests on it. They say malting barley needs almost 100 percent germination to malt, Matchey added.

The graded samples go for pheasant or animal feed.

If you market your wheat through any of the following elevators, your sample went to Lewiston for its grade:

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Ed Matchey, chief grain inspector at the Lewiston station, demonstrated the use of a separator to ensure an evenly mixed sample of grain being graded.

ssible new crop

has been more favorable," Auld said.

The University of Idaho scientist said adaptation trials for garbanzo beans will be conducted in 1981 with the cooperation of northern

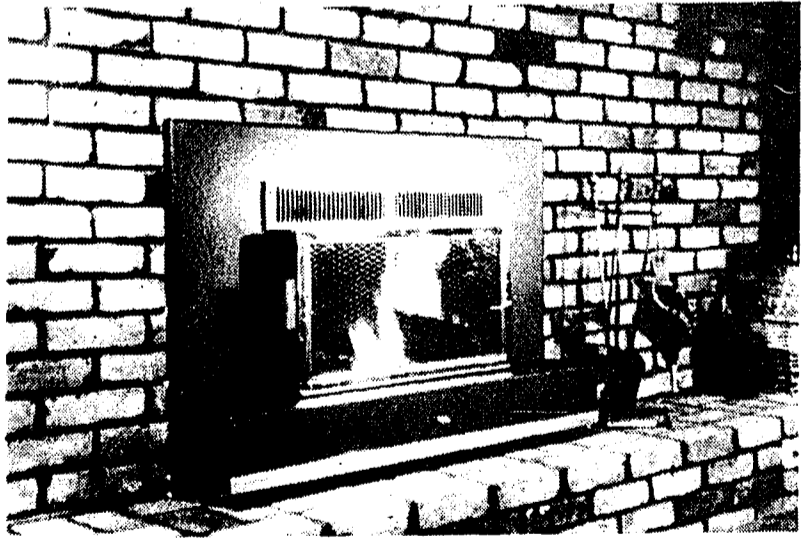
Idaho farmers.

"Selected growers will be asked to plant five-acre pilot fields, to see if garbanzo beans are adapted to commercial production in our area," Auld said.

"Nature is in earnest when she makes a woman." Oliver Wendell Holmes, Sr.

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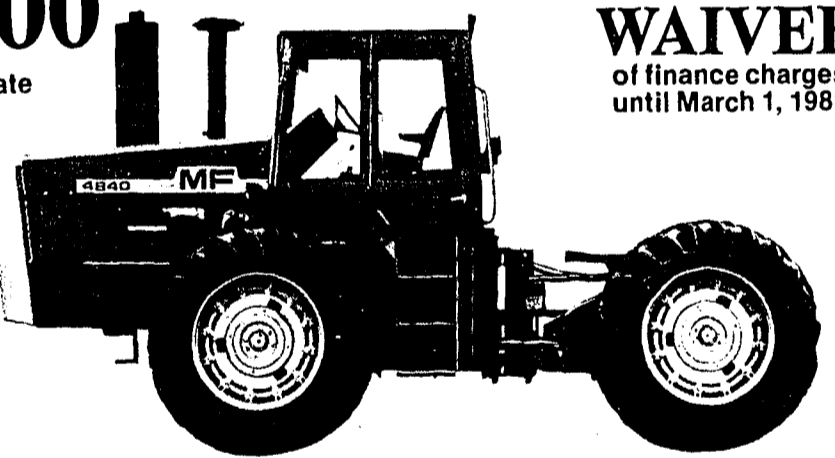
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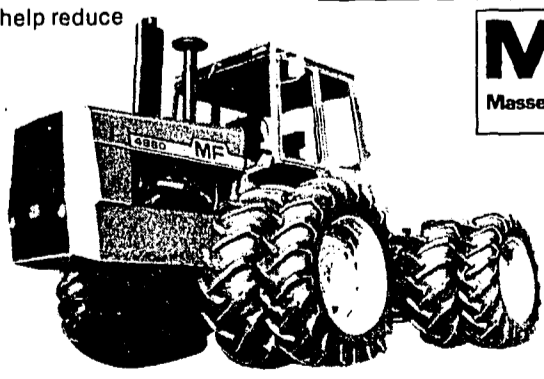
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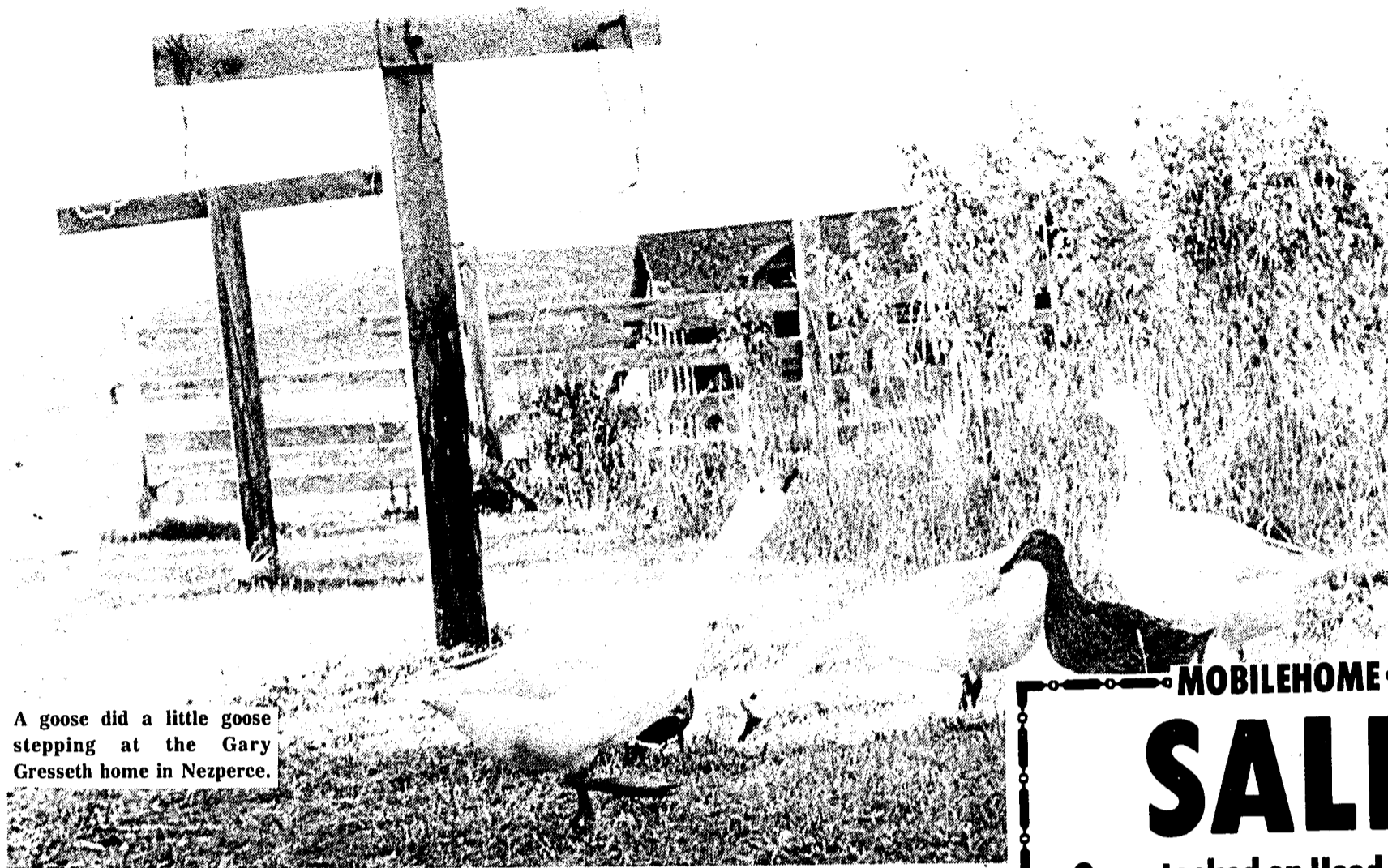
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A goose did a little goose stepping at the Gary Gresseth home in Nezperce.

Hog marketing co-op described

By Susan Tiede
Larry Abbott of Meridian,

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Idaho, discussed a hog marketing co-op with the Twin Rivers Swine Growers and the Camas Prairie Swine Growers at a joint meeting in Crigmont, Nov. 20.

Abbott has worked with the PNW hog marketing cooperative since it formed at Nampa in August. They essentially have an auction over the telephone with 10 packers participating, he said.

They have shipped 4 loads of 200 hogs through the PNW. The PNW has sold lambs with this system for 8 years.

Last week, PNW sold 8 trucks of lambs. They are getting \$4 above the national average through the co-op. All of those lambs went to Eastern packers.

PNW arranges a conference call, describes the animals and accepts bids like at an auction.

"A half hour before we make the call, we get the market service report on prices. Iowa Interiors is the

most reliable picture of the market as they market more hogs than Omaha," Abbott said.

"We don't assemble the hogs at the pickup point until we know when the truck will arrive. We don't get into trucking. It's the packer's responsibility. After we hang up from the phone auction, we call the packer to see when the truck will arrive. They have 7 days to take delivery. Then we notify everyone to have their hogs at the pickup point when the truck arrives.

"We let producers know the sale date in advance then start signing up hogs. If we have more than one truckload on a first come, first serve basis, we start on a second load.

"Our system gives the small producer the same marketing power as the guy who can put together a truckload.

"Once the producer calls in that he has so many hogs he wants on the load, he's committed, but beyond that you don't have to stay with the cooperative," he said.

"Once the hogs are on the truck, they aren't our responsibility. It's then between the trucker and the packer.

"Our prices so far have been both up and down from the current market, but you have to watch the price the sales yard quotes. It may have been a single hog that sold for the day's high while the rest went considerably

lower," he said.

"We started the hog marketing system as it was a case of do something or go out of business for us in the Treasure Valley.

"When they started selling hogs at the salesyard in the morning, we were getting the Omaha price, but as the sale went on the prices went down.

"We also got a \$2 per head dock on red or black hogs despite the fact they hang as good a carcass as any," Abbot said.

"For the system to work, we need to ship a load of hogs every week. We've established a reputation for good hogs."

The Nampa based group wants to add either the north central Idaho area or southeast Idaho, so they can make the cooperative work for them as well as the packers by having a steady supply of hogs coming in.

The cooperative has been well received with packers in the western states with the coming of winter.

If they purchase Mid-West hogs, they can be snowed out in route and losses could be high while Idaho hogs are much closer and would arrive at the packer in better condition, Abbott said.

The PNW is a non-profit co-op which charges \$2 per head for marketing which just covers the costs. There is also a \$5 life-time membership fee. Over half of the

(Continued to page 9)

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Burning straw is harmful

(EDITOR'S NOTE: The following article appeared in the Oct. 2 edition of the Idaho Farmer-Stockman.)

Heavy crop residues and Cephalosporium stripe rust appeared to be inspiring more grain straw burning than usual east of the Cascades this fall. Actually, the practice of burning straw, which has been discouraged for years, will result in more harm than good, scientists say.

A good job of burning will probably destroy about 90 percent of the Cephalosporium fungus

spores, but it is not a recommended approach to the problem, because burning creates a major erosion hazard, said Dr. George W. Bruehl, professor of plant pathology at Washington State University. Too, it should be noted that there is still a reservoir of 10 percent or more of the infection which is not destroyed.

On the other hand, crop rotation is an effective and economical method of controlling Cephalosporium, according to Bruehl and other authoritative sources.

"It irritates me to no end

to see this burning," Bruehl said. "Here is what we recommend. Instead of burning the straw, use a rotation in which winter wheat or winter barley is absent two years."

Any spring crop, such as lentils, spring barley or even spring wheat, will do the job, he said. Spring grains, although susceptible, escape any damaging infection from Cephalosporium.

The newer white winter wheat varieties, including Daws, Stephens, Hyslop and McDemid, are highly susceptible to stripe, Bruehl pointed out. Gaines and Nugaines have more resistance, but when conditions are particularly favorable for the diseases, they, too, are vulnerable.

The causative fungus is

soilborne. It attacks the inside of the stems and may reduce winter wheat yields by as much as 50 percent. All winter cereals are susceptible and hosts to the disease, according to Bruehl.

Another fungus disease of winter cereals which some farmers have attempted to control by burning is Cercospora foot rot.

Burning won't help control this disease and may even make it worse, according to results of trials near Pendleton. Neither fall nor spring stubble burning reduced its incidence. Actually, burning stubble may spread the Cercospora spores, because loss of the stubble cover increases the splashing effect of raindrops, SCS agronomist Ronald McClellan says.

Nov. 27, 1980 Farm & Ranch Chronicle Page 9
McClellan and Carl Engle, WSU extension soils scientist, also emphasize that burning straw destroys valuable soil nutrients and soil-enriching organic matter. According to Engle, one ton of wheat straw contains on the average 13 pounds of nitrogen, 3.4 pounds of phosphorus, 24 pounds of potassium and 5 pounds of sulfur, which even at 1972 prices, was worth more than \$7.

"We have measured as much as 12,000 pounds of wheat straw per acre," noted McClellan. A rule of thumb is that 100 pounds of straw is produced per bushel of wheat, he said. Barley produces less straw than wheat, but plenty still. Some fields of barley east of the Cascades averaged 3 tons of grain per acre, which was accompanied by over 4 tons of straw, he said.

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Hog marketing co-op ...

(Continued from to page 8.) cost goes for the bonding, the co-op checks and cost of the conference phone calls for the sales.

A manager receives 35 cents per head for assembling the hogs on paper, weighing and grading, tattooing the animals as to farm of origin, signing out the truck and keeping in contact with the state manager.

They market the hogs by the truck load and sell grades 1 and 2 hogs with smaller or crippled hogs being sold through the local salesyard.

The grading is done by eye on the basis of how fat the hog is. Abbott thought later they may also add sows to their marketing, but boars probably won't be, he said.

The sales are on live weight at the drop point. It takes about seven days for

producers to receive their checks.

Any hog with TB would be condemned at the owner's expense and if they don't stand behind the hog, they may be banned from the marketing co-op.

Abbott said he had sold direct to the packer prior to joining the co-op.

The local producers have not made any decision on whether they would want to join the co-op or not.

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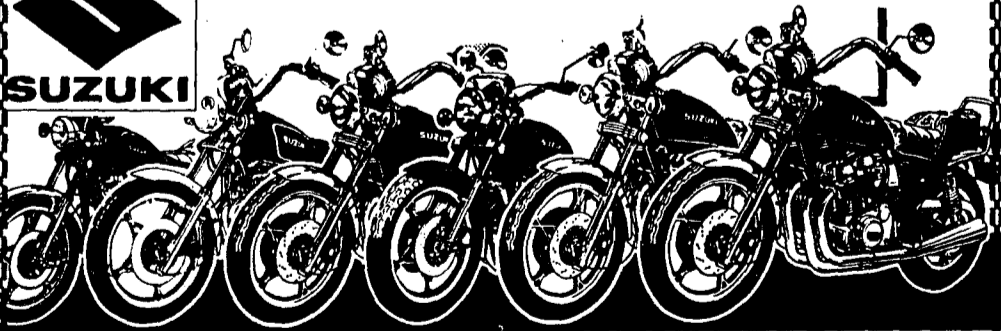
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Area projects reviewed at SCD convention

A dozen north central Idaho residents were active participants at the Idaho Association of Soil Conservation districts' convention, "Districts—A Conservation Resource" at Pocatello Nov. 11-13.

National Association of Conservation Districts' Director Jim Busch of Genesee stressed the importance of conservation to the food supply in his speech.

Busch, who has toured Libya, said "They have overgrazed their pastures and cut down their forests until the land can no longer hold back water to prevent flooding or grow food.

"They feel in the future food will be more important than nuclear weapons."

IASCD President Don Hamilton, Nezperce, said conservation districts have received recognition and

credibility from other agencies during their work with water quality programs during the last two years.

Districts need to set their own priorities and carry them out through the district and in cooperation with other agencies.

"We must meet the challenge of the future in conservation."

Darrell Paul, Moscow farmer and Latah Soil Conservation District associate member, represented Latah SCD and north Idaho on a Special 208 Project panel discussion.

He outlined the district's work with three water quality projects—the Cow Creek Demonstration Project, the Paradise Creek 208 planning project, and the Thorn Creek PL-566 Land Treatment Project.

Cow Creek is testing the ability of the Latah 5 point Program to control non-point source pollution.

Paradise Creek is under the Rural Clean Water Program and will conclude when a project application is submitted for the work stage. Thorn Creek is a proposed land treatment project.

"In the Paradise Creek project, the most important aspect is farmers working together. I know I always try harder when I'm working with other people," Paul concluded.

Paul and Latah SCD Acting Conservationist Ron Gill also participated in the dryland committee meeting.

Paul had a presentation in that meeting and also spoke out on north Idaho conservation problems.

"Education and research, not regulation, is the best for government involvement in conservation," said Gene Thomas of Filer, chairman of the Idaho Soil Conservation Commission.

Commission Vice Chairman Claud Judd of Clearwater County also attended the meetings.

"Only two-tenths of 1 percent of the National Budget goes for conservation programs to protect our food and fiber producing land. This important area needs a higher priority," said State Conservationist Amos Garrison.

During the election of officers, Susan Tiede of Winchester was elected IASCD secretary. Other new officers are: President, Warren Ruen of Clark Fork; vice president, Dean Kidd of Hansen; and treasurer,

Grant Jones of Malad. Other Yamasaki of Idaho Falls and state directors are Lowell Jim Simpson of Kuna. Grim of Nampa, Sam

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Samuel Johnson

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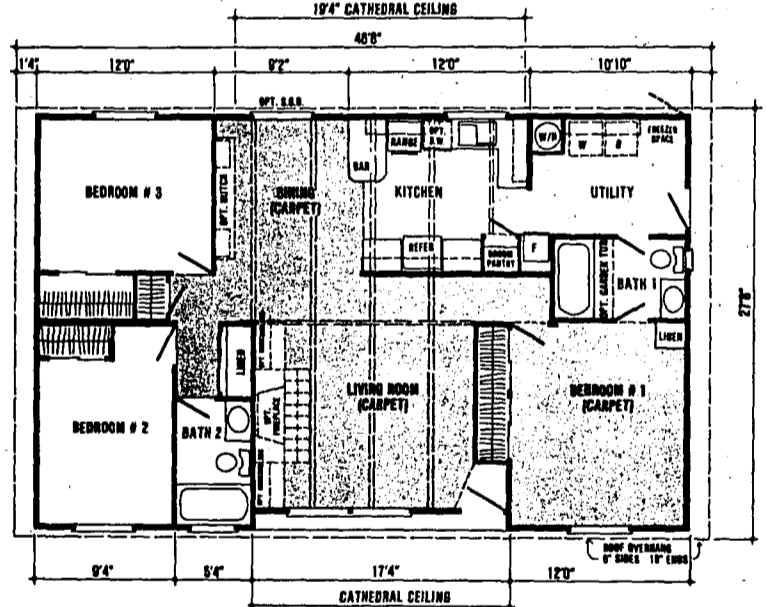
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Zucchini recipe given

By Rosa Smith
Home Economist

Botulism is the most deadly of all food poisoning. It's spore-forming organisms grow and produce toxin in the absence of oxygen such as a sealed canning jar. The toxin grows in low-acid foods.

Zucchini squash is a low acid food. It must be home processed by pressure canning unless it is made acid as for pickling.

There have been many recipes appearing for making "mock Pineapple." Unfortunately many are inaccurate in the ingredients to use. Some have little or no lemon juice.

"Mock Zucchini Pineapple" is a type of "pickled" vegetable. Enough acid solution must

be used to penetrate the zucchini. In the recipe the important ingredients are lemon juice and pineapple juice.

The recipe tested and recommended by the University of Idaho Cooperative Extension Service is as follows:

"MOCK ZUCCHINI PINEAPPLE"

1 gallon shredded zucchini
46 oz. can pineapple juice
2½ cups sugar
1½ cups reconstituted Lemon Juice
½ teaspoons pineapple extract (optional)

Combine ingredients in a large kettle. Bring to a boil and simmer 20 minutes. Pour into clean hot canning jars to ½ inch of jar tops. Remove air bubbles. Add

pre-treated lids and process in a boiling water bath 20 minutes for pints and 25 minutes for quarts (sea level altitude). Processing times for Idaho County must be adjusted for altitude.

Examples: Grangeville—pints 24 minutes, quarts 33 minutes. Kooskia (town)—pints 22 minutes, quarts 29 minutes.

What do you do if the recipe you used is not the same as the one from the Extension Service?

DO NOT USE THE PRODUCT. Dispose of it so no person or animal can eat it. Thoroughly wash and sterilize jars before you use them again.

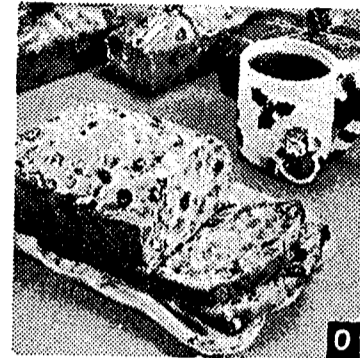
Homemakers preserve foods at home to help with the food budget. Correctly prepared the "Mock Zucchini Pineapple" can save money.

It costs about 14 cents per cup using home grown zucchini as compared to "real" pineapple at 39-49 cents per cup.

Incorrectly done, the "Mock Zucchini Pineapple" could be a serious health problem to family members.

If you are not sure a canning recipe or procedure you are using is accurate, check with Rosa Smith, University of Idaho Extension Home Economist for Idaho County. The number to call is 983-2390, Ext. 44.

For partytime or Christmas gift-giving, festive quick breads are delicious and easy to make. This recipe, suitable for either large or small loaf pans, features a unique baking ingredient—peanut butter chips. These nutritious little chips, which supply protein, niacin and other nutrients, are made from real roasted peanuts. And they're so easy to work with, you'll want to make each of the four luscious breads listed here.



Bake a Christmas Loaf

PEANUT BUTTER CHIP NUT BREAD

2½ cups unsifted all-purpose flour	3 tablespoons vegetable oil
½ cup sugar	1 egg
½ cup packed brown sugar	2 cups (12-ounce package) Peanut Butter
1 tablespoon baking powder	Chips
½ teaspoon salt	1 cup raisins
¼ cups milk	½ cup chopped pecans

Preheat oven to 350°. In large mixing bowl, combine dry ingredients. Add milk, vegetable oil and egg; beat just until combined. Stir in peanut butter chips, raisins and nuts. Pour batter into one 9x5x3-inch loaf pan (bake 55-65 minutes), or two 8½x4½x2½-inch loaf pans (bake 55-60 minutes), or four 6¼x3½x2¼-inch loaf pans (bake 45-50 minutes). Cool slightly; remove from pans. Cool completely before slicing. Wrap in aluminum foil or plastic wrap; store in refrigerator. (For following variations, bake as above.)

Banana Nut Bread: Use only ¼ cup milk; stir in 1¼ cups mashed, ripe banana (about 3 medium bananas).

Apricot Nut Bread: Stir in 1 cup chopped, dried apricots.

Cranberry Nut Bread: Omit raisins; stir in 1 cup fresh or frozen cranberries, cut in half; add 2 teaspoons grated orange peel.

mothers and babies

LITTLE KNOWN FACTS

By the time the average child is two years old, he is about half of his adult height.



Tops among many new mothers and mothers-to-be are smocks. One attractive example is this long-sleeved brushed chambray top with a quilted yoke and delicate bow. In a pretty pale blue, it's made by Mothercare, retail specialists for mothers-to-be, babies and children under seven. The smock goes beautifully with fashionable, stretch-side jeans, especially when joined by a flower-studded insulated diaper bag.

Colicky babies can sometimes be calmed if they are given smaller, more frequent feedings. In any event the colic almost always is gone in three to four months.

A fine assortment of clothes for the mother-to-be can be found in the Mothercare catalogue. Write Mothercare, P.O. Box 3881, N.Y., N.Y. 10163.

Head Start For The Holidays



When the bustle of Thanksgiving or Christmas reaches a peak, you'll be steps ahead if you have stuffing with a special touch ready to pop into the oven alongside the big bird. Chicken flavor stuffing mix, moistened with apple juice and flavored with apple slices, is a hearty change-of-pace side dish guaranteed to enhance your holiday meal.

Apple Stuffing

4 medium or 3 large cooking apples, peeled, cored and sliced
2 tablespoons sugar (optional)
1/2 cup butter or margarine
2-1/2 cups apple juice*
2 packages Stove Top chicken flavor stuffing mix

*For more moist stuffing, use 3 cups apple juice.

Sprinkle apple slices with sugar; sauté in butter in large skillet until just barely tender. Add apple juice and contents of Vegetable/Seasoning Packets; bring to a boil. Pour into 2-quart casserole. Stir in Stuffing Crumbs, mixing lightly. Bake, uncovered, at 350° for 15 minutes. Makes 8 cups or 16 servings.

TURKEY-VEGETABLE CASSEROLE

1-1/2 cups hot chicken broth
2 teaspoons butter or margarine
1-1/2 cups Minute rice
1 package (8 oz.) mixed vegetables with onion sauce
1 cup milk
1 teaspoon Worcestershire sauce
1/2 teaspoon salt
1-1/2 cups diced cooked turkey
2 slices process American cheese, cut in triangles

Combine broth, butter and rice in 1-1/2-quart baking dish. Cover and bake at 450° for 10 to 15 minutes. Stir and move rice to sides of dish.

Meanwhile, combine vegetables, milk, Worcestershire sauce, salt and turkey in medium saucepan. Cook and stir over medium heat until mixture comes to a boil; then simmer for 4 minutes. Pour into center of casserole; arrange cheese triangles on top. Bake 2 minutes longer or until cheese is melted. Makes 3 cups plus rice or 4 servings.

GRAVY DELIGHTS DIETERS

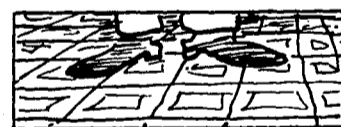


With everyone trimming calorie intake, it was only a matter of time before the arrival of "skinny" gravy. The gravy is made in the pan to take advantage of the crisp morsels that cling to the pan, but it is made after all the fat has been poured off. Although corn starch and flour are equal in calories, corn starch has twice the thickening power of flour so only half as much is needed. Corn starch leaves no pasty aftertaste and creates a translucent end result, a bonus for dieters who value the flavor and appearance of low-calorie foods.

SKINNY GRAVY

2 tablespoons Argo or Kingsford's corn starch
2 cups bouillon or broth

After roasting meat or poultry, pour off drippings in roasting pan leaving brown crusty parts in pan. Place pan over medium heat. Stir in corn starch and desired seasonings until smooth. Remove from heat. Gradually stir in bouillon until smooth. Stirring constantly, bring to boil and boil 1 minute. Makes about 2 cups.



Linoleum was patented in 1863 by Frederick Walton, an English rubber manufacturer.

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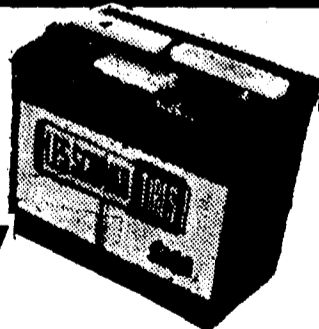
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