

SPOTTED FEVER STUDY GOES ON

Montana Laboratories To Be Enlarged

Ticks, Carrier of Deadly Germ, Yield Vaccine to Control It

Hamilton, Mont. (AP)—Study of Rocky mountain spotted fever will be facilitated by addition next year of a third unit, costing \$25,000, to the United States public health service laboratories here, officials have announced.

Thirty-five years ago the Rocky mountain wool tick was recognized only as a pest, not as a menace. Today the insect, dermatoron andersonii, is recognized as the carrier of spotted fever, a disease once attributed to polluted water.

Scientists in this bitter foot valley laboratory now know the carrier and manufacture a preventive vaccine to minimize infection possibilities. In addition to studying spotted fever, however, research workers in the \$400,000 plant here study and experiment with tularemia, relapsing fever, hantavirus, Colorado tick fever and tick paralysis.

Investigation begun in 1902 began in 1902 in a study made by Dr. I. B. Wilson and Dr. W. M. Channing of the University of Minnesota. But it was not until 1925 that Dr. R. H. Parker of the public health service and the Montana state board of entomology and Dr. R. B. Spencer of the public health service perfected the vaccine now manufactured here for use throughout the United States and many foreign countries.

Unlike serum, which are made from animal blood, spotted fever vaccine is manufactured from tissues of the carrier tick.

Annually a crew is sent through the low bush and grasslands here and along bitter foot valley game trails to gather ticks. They use white-cotton flannel flags which they drag through the bushes and over the ground. The ticks grasp shanks with their third pair of legs. They hang head downward, with their other six legs dangling in the air ready to attach themselves to the hair of passing animals. Every year about 25,000 male and female ticks are caught on these flannel flags.

Placed in incubation At the laboratory, female ticks are fed on rabbits for 10 days. Their size increases several times. Males do not grow larger as they feed only a few days, then seek mates. After fertilization, females are segregated and placed in incubators where each lays from 5,000 to 9,000 eggs.

In this way about 50,000,000 ticks are hatched each year. About 1,500,000 reach the adult stage in a few

months by means of a refrigeration process. In the natural state two years are required for attaining adult size.

Full grown ticks are placed in cold storage until needed for vaccine manufacture, when they are fattened on guinea pigs, becoming highly infectious.

Saline Solution Used Before grinding the spotted fever virus is killed with a salt solution. Then a saline solution containing phenol is added and later another sterile salt solution. Before bottling, vaccine is subjected to centrifugal force to remove tick tissues.

If after vaccination with the new product, four of six guinea pigs survive injections of virulent strains of spotted fever, the vaccine is considered ready for human use. Vaccination immunizes a person for a year.

As the laboratory's product is the only known preventive, and as it is not possible to vaccinate every one, officials of the public health service fear spotted fever always will be a menace, minimized greatly, however, through use of the vaccine.

Madras

Madras, June 20 (Special)—Mr. and Mrs. Chet Johnson of Bend visited friends here Saturday.

Bill Snook is visiting his grandparents, Dr. and Mrs. W. H. Snook. Mrs. Sydney Kelly and children of Redmond visited last week with her sister and mother-in-law, Maxine and Mrs. J. Kelly.

O. T. Monroe and family moved into their new home Saturday. Mr. and Mrs. W. A. Ellis have been working on the Methodist parsonage. The walls are being re-papered. The minister will live in Madras instead of Metolius after this term is up. Reverend Frank Brown expects to return to Madras for another year.

Mr. and Mrs. Kenneth Jackson and son have moved into one of the Morrow homes on the hill. Mr. and Mrs. Clarence Duling and family visited friends and relatives in Lone Pine last week.

Ralph Armstrong of Portland spent a few days last week visiting at the home of his nephew, Dale Osborn.

Among the Madras people who went to Portland to attend the meeting of the Grand Chapter of the Eastern Star of Oregon were Howard Turner and his mother, Mrs. Ella Turner; Mrs. Myrtle Ramsey; Mr. and Mrs. Frank Stockton; Judge and Mrs. W. R. Cook; Mrs. T. M. Gunderson; Mrs. Forest Cooper; Mr. and Mrs. J. W. Warren; and Mary Anderson. A part of the group participated in the installation ceremony of Mrs. John Priddy as Grand Matron of the Grand Chapter of Oregon and Mrs. W. R. Cook as Grand Warden.

Thelma and Verna Ramsey left Sunday to attend summer school in Portland.

Miss Dorthea Gate of Redmond was visiting her aunt, Mrs. Merle King, last week.

Mrs. Albert Zemke and Mrs. Dale Osborn were guests at the O. O. club meeting held at the home of Mrs. F. A. Laird of Redmond Thursday.

Helen Andrus returned home from college last Friday.

Mrs. Fred Green won a box of oranges for finishing a bumper on the Smoket program. She was passing out oranges to friends in the courthouse Friday.

Mrs. Lewis H. Irving entertained the Episcopal Guild Thursday. The Gold Fellows gave a party Wednesday night for the Bebebebe and friends. Dancing was enjoyed. Refreshments were served.

Mrs. Barney Cummings of Hood River visited last week with her mother, Mrs. Margaret Corwin, and sister, Mrs. Fred Green.

Mrs. Melvin Bryant was home for a few days last week. A demonstration of the work the members of the Bible school have done was held Sunday evening at the Methodist church. The record attendance for the two weeks was 54. Those who taught classes and assisted in other ways were Mildred Zerkle, Stella Lerman, Mrs. E. E. Herold, Helen Moehring, Mrs. Howard Cox, and the Reverend Frank Brown. The Bible school was terminated Friday with a picnic at the case. A large group enjoyed the day thoroughly in spite of cloudy weather.

Weekend guests at the home of Mrs. May B. Johnson was her daughter and son-in-law, Mr. and Mrs. Melvin Welker, and Harry Walker. Overnight guests Monday of Mrs. Gladys Hoyer were Mr. and Mrs. D. H. Law and son-in-law and daughter, Mr. and Mrs. Shelley Bishop, of Wilder, Idaho.

Mrs. Alice Sheringhousen, and grandson, Leon Sheringhousen of Pendleton visited last week at the home of Mr. and Mrs. H. L. Priddy and Mr. and Mrs. H. Ward Farwell. Mr. and Mrs. Lawrence Sheringhousen, formerly Edith Babcock, taught in the Madras high school.

The Men's Luncheon club met Wednesday Dwight E. Gilchrist, Boy Scout executive for the district, was a guest to further the formation of a boy scout troop here. A committee headed by H. A. Dussault, called a meeting for June 24 to find out how many boys were interested. The parents were invited to enlist their cooperation. Attempts have been made at various times to further Boy Scout activities here but interest has been lacking. It is hoped, with the luncheon club behind it, that a troop can be enlisted and kept going.

The Madras city council met Tuesday evening and passed three measures, a building zone ordinance, one governing handling and storage of explosives and combustible; and one to ban outside toilets and require installation of septic tanks. Action was taken to prohibit the big transport trucks from parking on Main street. A fire siren was purchased and it worked amazingly well.

Mrs. May B. Johnson will be the postmaster for the next four years. Her nomination was confirmed Tuesday.

Mr. and Mrs. A. D. Anderson and Mary and Steven Anderson were called to Seattle Monday by the death of Anderson's mother.

Ed Miller Is Speaker At Lion's Luncheon

People of Bend and Central Oregon and residents of the coast county have a vital interest in the completion of the Santiam highway. Ed Miller, manager of the Oregon Coast Highway association, former state senator and at present a member of the state planning board, told members of the Bend club of Lions at that group's weekly luncheon meeting today in the Pilot Butte Inn. Because of this common interest in the new trans-mountain highway and the importance to the various communities, Miller suggested that a get-together picnic be held when grading of the new route is completed, probably this fall. Miller suggested Cascadia as a meeting place.

Miller told the Lions that people down on the Oregon coast have a great interest in the interior plateau and reminded his audience that Bend people should have a reciprocal interest in the Oregon coast. The part the new Santiam highway will play in furthering these mutual interests was stressed.

The coast man referred to the alpine scenery of the Central Oregon Cascades and complimented the Deschutes country on its fine fishing. Miller fished the Deschutes this morning, accompanied by Don H. Peoples, local chamber secretary.

In the absence of W. L. Van Allen, newly elected president, Dr. J. S. Graham, vice president, was in charge of the noonday meeting.

Billy Friend Wins in Week's Photo Contest

Billy Friend, 617 Quincy avenue, was the winner of this week's prize in the Owl pharmacy's photograph contest. The prize winning snapshot is a picture of a small boy and girl. The prize offered this week was a set of bathroom scales.

Next week the last of the series of weekly prize awards will be made and the following week the grand prize for the contest will be awarded.

Chemical uses have been found for the substance in wood called lignin, heretofore wasted to the extent of 1,500,000 tons a year in this country alone.

D.A.V. Grand Ball Tomorrow

PUBLIC INVITED TO FINAL AFFAIR

Bad Russell's Orchestra to Play in Elks Hall

The final affair of the state convention of the Disabled American Veterans of the World War which opened in Bend Sunday will be the grand ball scheduled for tomorrow night at the Elks hall. Bad Russell's orchestra will play for the dance which begins at 9 o'clock.

The public is invited to attend. On the committee in charge of the arrangement are Kenneth C. Bennett, W. J. Creighton, and Hugo Peters.

The Beavercamp Fire Girls will have their regular meeting Wednesday afternoon beginning at 2 o'clock in Drake park by the band stand. The girls plan to crochet and knit at their summer meetings.

Circle 2 of the Catholic Altar society will meet at 2 p. m. Wednesday with Mrs. Gordon Meagher at 744 Delaware avenue.

Officers of the Past Presidents' club of the Degree of Honor will be elected Thursday evening at the meeting which will be held with Mrs. T. J. Twest, 137 Underwood avenue. The meeting will begin at 7:30.

A social meeting for members of the Women's Benefit association and the Westway club is planned for Thursday evening in Sather hall. On the committee for the evening are Mrs. Harriet Metz, Mrs. Clara Keller, Mrs. Mary Skaggs, and Mrs. Mary Allen.

The second public pinhole party of the Ladies auxiliary of the Patriarchs Militant will begin at 8 p. m. tonight in the Odd Fellows hall. High and low prizes will be awarded to both the men and women at the close of the evening. Refreshments will be served. On the committee in charge are Mrs. Edgar Barnes, Mrs. H. C. Truitt, and Mrs. Frank Riley. The final one of the parties is planned for June 28.

Mrs. R. L. Winters, 337 Delaware avenue, will be hostess to the members of the Thimble club of the Neighbors of Woodcraft Wednesday. The meeting is called for 2 o'clock. The meeting is to be a social affair. The women have been asked to wear house dresses for the afternoon.

JOB'S DAUGHTERS INSTALL OFFICERS

Public installation for Job's Daughters' officers will be held tomorrow evening in the Masonic temple. The opening ceremony of the organization will begin at 7:15 with the installation following.

Betty Jeanne DeArmond will be installed as the honored queen; Ruth Lakin, senior princess; Patsy Ireland, junior princess; Donna Smith, guide; Janet Farnham, marshal; Betty Irvine, recorder; Alice Barr, chaplain; Joan Vandevort, librarian; Wilma Hollinshead, treasurer; Dorothy Barr, senior custodian; Doris Barr, junior custodian; Bonnie Van Matre, Norma Jean Moore, Helen Olson, Polly Miller, and Nadine Padden, messengers; Emily Joyce, inner guard; and Maureen Conklin, outer guard.

Mrs. J. E. Smith is guardian of the girls, and the members of the council are Mrs. Smith, Mrs. Ralph Grimes, Frank Bockman, Mrs. Frank Bockman, Mrs. John Howe, Mrs. Loyde Blakley, and Miss Ramona Bockman. The retiring officers are Jessie Wirtz, queen; Betty Jeanne DeArmond, senior princess; Ruth Lakin, junior princess; Patsy Ireland, guide; and Donna Smith, marshal.

Harold Kline Married To McMinnville Girl

Harold Kline, Jr. son of Mr. and Mrs. Harold Kline, was married to Edna Davidson, daughter of Mr. and Mrs. W. L. Davidson of McMinnville, in Kelso, Wash., on May 12, according to the announcement made today. Mrs. Kline will come to Bend Saturday after which date the couple will be at home on Colorado avenue.

Mr. and Mrs. Kline attended Linnfield college. He is a member of Phi Epsilon and she is a member of Sigma Kappa Phi.

The couple was attended at the ceremony by Ruth Waind of McMinnville and Kenneth Trolan of Molave.

COUPLE IS WED AT YOUNG HOME

Miss Ketcham Married to Stanley Bowden

The C. B. Young home was the scene of the wedding of Miss Hazel Ketcham, daughter of Mrs. C. A. Ketcham of Payette, Idaho, and Stanley Bowden of Arack, Oregon, son of Mrs. C. R. Young of Bend. The ceremony was performed Sunday at 5 p. m. by the Rev. Alfred Danielson.

The bride wore a white crepe dress and a coronet of roses. She carried a bouquet of pink roses. Her matron of honor was Mrs. Ted Hon of Arack, who wore a flowered crepe dress. The best man was Philip Bowden of Toledo, brother of the groom.

The ceremony was performed in an alcove of the Young home which was decorated with pink, yellow, and white wedding bells.

Following the ceremony the bridal party and guests were entertained at a reception and dinner at the Young home. The guests were Mr. and Mrs. Walter Campbell, Sr. and Mrs. S. N. Cornett, Mr. and Mrs. Alton Snyder, Mr. and Mrs. Frank Foster, Mr. and Mrs. Luther Nayler, Mr. and Mrs. Oliver Young, Mr. and Mrs. Halvor Runnigen and son, Arthur, and Miss Joyce Nelson, all of Bend; Mr. and Mrs. Walter Bowden, and Miss Lilalee Hon of Arack; Mr. and Mrs. Philip Bowden and Carl Ledford of Toledo; Mrs. Joseph Zimmerman of Kodiak, Alaska; and Mrs. C. Ketcham, Mrs. Cora Scrivens, Oscar Ketcham, and Robert Yundt of Payette.

The dinner was served by Mrs. Cornett, Mrs. Philip Bowden, Mrs. Snyder, Mrs. Foster, and Mrs. Walter Bowden.

The couple left today for Arack where they plan to live.

Starting at 4 o'clock tomorrow a two-ball mixed foursome tournament will be played at the Bend golf club. The women will choose partners for the match. William T. Lindgren, golf professional, is in charge of the pairings.

At 7:30 dinner will be served at the club house. Reservations were to be made today with Mrs. W. E. Chandler or Mrs. William Naylor.

The last meeting of the summer for the Pythian Sisters will be held tomorrow in Sather hall. The business session will open at 8 p. m.

The Christian Ladies Aid meeting planned for Thursday has been postponed until June 30, Mrs. A. E. Bostic said today.

Mrs. Sara H. Wertz, who was a delegate from the Bend club of the Business and Professional Women to the convention held in McMinnville early this month, read a report on the state sessions. Mrs. L. R. Pickett was a guest of the club which met at Lemke's on the north Dalles-California highway last night.

The business sessions which are held on the first Monday of each month have been cancelled for the summer. The next meeting is planned for July 18 and will be a picnic lunch served at the Pickett gardens.

WEDDING IS HELD ON PILOT BUTTE

Miss Neely, Roy Rickey Married Sunday

Miss Evelyn Neely, daughter of Mr. and Mrs. Merle Neely of Alberta, Canada, was married to Roy E. Rickey of Bend at 1 o'clock Sunday at the summit of Pilot Butte. The service was read by the Rev. O. W. Jones.

Roy Warren and Clara Zuhar were the attendants. Other members of the wedding party were Mr. and Mrs. Arthur Brinson and Mrs. Mrs. Monroe Piland, and Mrs. O. W. Jones. After the ceremony, a dinner was served at the Piland home.

Mrs. Rickey came to Bend about two weeks ago from her home in

Canada. Mr. and Mrs. Rickey are living on Columbia street.

Two meetings of the Methodist Women's association have been arranged for tomorrow. Group 1 members will meet with Mrs. R. I. Hamby on route 1, and group 2 members are to be entertained at the home of Mrs. Carl Erickson, 211 Drake road. Both meetings will open at 2:30.

The women who plan to attend the meeting at Mrs. Hamby's may make arrangements for transportation by calling Mrs. W. A. Wirtz or Mrs. R. E. Johnson.

Lower Bridge

Lower Bridge, June 21 (Special)—Mr. and Mrs. Roy Morse and children of Bend were visitors at the Joe Howard ranch Sunday.

Mr. and Mrs. Howard Mayfield and sons Billie and Wayne returned Saturday from Klamath Falls where they attended state grade. Mrs. Mayfield and sons also visited with relatives in Medford.

Mr. and Mrs. G. H. Pridoux and their niece, Thora Pridoux, all of

Portland were week-end guests at the Holmes ranch. Thora remained to spend the summer with her brother-in-law and sister, Mr. and Mrs. Friday Holmes.

Miss Jean Clevenger was a visitor at the home of Mrs. Robert Muncie Thursday morning.

Kittie Oaks of Redmond and Helen Morton were visitors at the home of Mrs. Joe Howard Saturday.

Weigands of Powell Butte stopped at the Holmes ranch Tuesday night on their way to the mountains with their cattle.

Frank Nelson was a visitor at the Joe Howard ranch Sunday.

Mr. and Mrs. Vernon Clevenger were business visitors in Redmond Tuesday. Mr. and Mrs. Friday Holmes attended the wedding of Vera Wagner and Donald Larson in Bend Tuesday. Scott Clevenger left Sunday for Newberg where he will spend the summer as a student assistant. Mr. and Mrs. Pellett and daughter, Shirley, of Terrebonne were visitors at the Joe Howard ranch Thursday. F. C. Logan was a business visitor in Redmond Thursday.



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Without question, the biggest assets a man's home town investment can have are its retail stores. Support them, and a handsome dividend yield comes back to you in the form of increased prosperity and happiness.

When you patronize your local merchant you are adding to the value of that home town investment. The reason is plain.

Whether you buy from the grocer, the clothier, the doctor—anywhere in town—it's true just the same. For everyone of these pays taxes—contributes to civic improvement which you also enjoy.

Plus this—eventually the home dollar comes back to you—whether it be for merchandise or in the form of wages.

The money that remains here at home helps everybody here. The money that is sent away handicaps everybody here. This seems like a strong statement—yet is plain fact if you will only analyze it.

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LITTLE ORPHAN ANNIE—ELEMENTARY, MY DEAR ANNIE!

NO TRACKS OF COURSE—GROUND TOO HARD—BUT WHOEVER TOOK THAT DOUGH CAME IN THROUGH THE WINDOW—TOOK A HUNDRED AND SIXTY BUCKS—

MAYBE WHILE SANDY AND I WERE AWAY—

SURE—AND WHILE ROSE AND MRS. ALDEN AND I WERE BUSY INSIDE—BUT SAY—WHY DIDN'T WHOEVER IT WAS TAKE ALL THERE WAS IN THAT JAR?

WHY DO YOU THINK?

WHY, I S'POSE 'CAUSE HE FIGGERED TAKIN' PART OF IT WOULDN'T BE NOTICED— BUT WAIT! WHY WOULD A ROBBER CARE 'BOUT THAT?

AGAIN—WHY DO YOU THINK?

WHY—WHY—WHY—I DON'T KNOW, 'LESS IT WAS WHAT THEY CALL AN 'INSIDE JOB'— B-B-BUT—WHO—?

AND ONCE AGAIN, MY LITTLE SHERLOCK, WHOM DO YOU THINK?

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