

GIANT FIREWEED TOPIC OF LESSON IN BOTANY

Characteristics and Some Interesting Facts About Plant Found in Burned Over Areas of State Are Told by Professor Sweetser.



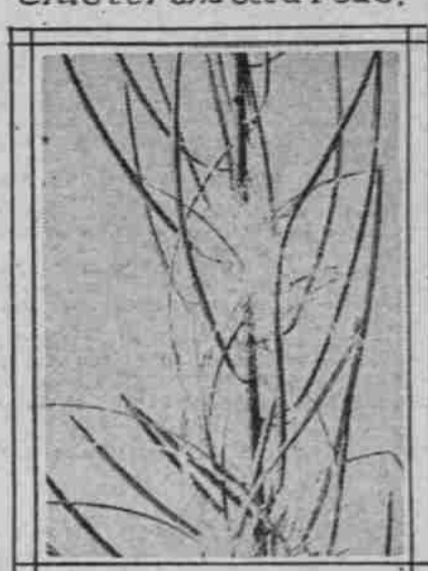
Upper Portion of Giant Fireweed.

BY ALBERT H. SWEETSER, Professor of Botany in the University of Oregon. UNIVERSITY OF OREGON, Eugene, Or., July 3.—(Special)—The giant fireweed, an interesting plant, is often found covering large areas on our hillsides, especially in burned-over regions, whence the name fireweed. From the resemblance of its leaves to those of the willow it is known in some localities as the willow herb. The scientific name is Epilobium, from two Greek words meaning upon the pod, because the parts of the flower seem to spring from the top of the seed pod or ovary. The stem varies from four to six feet in height and the leaves are narrow and from four to eight inches long (figure 1) in any given species of these plants the flower colors are not constant, but vary from white through rose to purple. This color difference appears unexplainable, for sometimes the whole variation will occur in neighboring plants.

A more detailed study of the flower shows the calyx of four green lobes united to each other below and continuous with the outer covering of the pod. The four petals are attached to the calyx and alternate with its lobes. There are eight stamens also attached to the calyx. A single pistil grows from the top of the ovary or seed pod, and at its upper end divides into a four-parted stigma which opens when the stigmatic surface is receptive to the pollen. (Figure 2.) As the plant matures these parts drop away, leaving the pod to elongate and enlarge. A cut across a pod shows that it is divided into four cavities and vertical rows of seeds attached to the center. When the pods are ripe they split lengthwise into four valves which open and allow the seeds to escape. Each seed is provided with a coma, or cluster of hairs, for the purpose of wind dissemination. (Figure 3.) The two lower flowers of figure 2 show clearly that this is a case of obligate cross-pollination. In the right-hand individual the pistil is depressed and the stigma closed (figure 2A), while the stamens are erect and



Giant Fireweed, Flower Cluster and Seed Pods.



Giant Fireweed, the Ripened Pods Bursting to Liberate the Seed.

SHEDDING their pollen, hence self-pollination is impossible, for there is no stigma to receive it. In the left-hand one, however, the stamens are withered and depressed, having shed all their pollen, but the pistil is erect and the stigmatic surface is exposed ready to receive the pollen brought from another flower (figure 2B). Sunday School Folk Elect. WALLAWA, Or., July 3.—(Special)—At the 12th annual county Sunday school convention held at Joseph, the following officers were elected for the coming year: Mrs. John McDonald, Wallawa, re-elected president; Mrs. O. J. Roe, Enterprise, re-elected vice-president; Mrs. T. E. Mitchell, Wallawa, secretary and treasurer. Rev. Mr. Phillip, field worker for the Sunday school, was the principal speaker.

MEDFORD-CRATER LAKE TRIPS BEGIN IN EARNEST

Governor's Party Opens Season With Visit June 24 and 10,000 Tourists Are Expected at Resort During Season.



Two Miles From Crater Lake, Automobile Was Left At This Point



First Party To Reach Crater Lake From Medford In 1915

MEDFORD, July 3.—(Special)—The first trip to Crater Lake from Medford this season was made by Seely Hall on June 24, when the party got within two miles of the rim and walked on to the new lodge which opens for the first time this year. The road from Medford to Ararat camp is in perfect condition and the road conditions are easily up the picturesque Rogue in five hours. On July 1 the season formally opens, although Governor Withycombe and party virtually opened the season on Monday, June 28, when they stopped there over night as the guests of Will G. Steel, superintendent of the park, and Manager Parkhurst, of Crater Lake lodge. All records for travel to Crater Lake already have been broken this season and everything points to unprecedented travel during the Exposition year. Manager Court Hall, of the Medford auto stage line, has booked tourist parties for every week in July and August, and Superintendent Steel believes that 10,000 people will register at the lake before the season closes. Heretofore visitors at the lake have slept in tents and have taken their meals in a temporary building but this year the elaborate stone lodge will be open, the dining-room and kitchen



INFORMATION FOR TOURISTS



Mountain, River and Beach Resorts Where To Take a Short Trip Out of Portland

Herewith is a list of short trips in and about Portland. If you are in doubt about any point, or the trip you have heard about is not mentioned here, call at the Information Bureau of the Chamber of Commerce or phone them—Bell Phone, Broadway 520 or Automatic, A 6091. Information will gladly be given. Literature of interesting points furnished—Time Cards, Beach and Mountain Resort literature. The Oregonian asks the names and addresses of tourists for publication. Enclose your business card with names of your party to Summer Resort Dept., The Oregonian, Portland.

The Hazelwood Confectionery and Restaurant. Washington St., at Teenth. Best Food Served at Lowest Possible Cost. Amid Homelike Surroundings. SEATING CAPACITY 450.

The Oaks (the Coney Island of the West)—Over 50 acres of priceless roses in full bloom, with every form of entertainment and every form of amusement... For Sightseeing or Outing Trips Around Portland.

Mountain Hood Resorts. Cloud Cap Inn is a delightful retreat, 6000 feet above sea level, on a sheltered spur of the very mountain itself... Mount Hood Resorts.

Bayocean Bungalows. Oregon's finest beach resort. Paved streets, mountain water, swimming, fishing. Most scenic railroad trip in Oregon.

Tourists— Appreciate our quick service. FILM DEVELOPING and PRINTING. All work finished by 5 o'clock the day received.

CLATSOP BEACH. Is the Nearest to Portland of Any Coast Resort. Trip Along the Lower Columbia River. CLATSOP BEACH RESORTS, GEARHART AND SEASIDE, MAY BE VISITED IN ONE DAY, ROUND TRIP, FROM PORTLAND.

For Sightseeing or Outing Trips Around Portland. Call First and Alder or Traffic Manager. Marshall 5100, A 6131. P. R. L. & P. Co.

BAYOCEAN BUNGALOWS TWO HOTELS. Oregon's finest beach resort. Paved streets, mountain water, swimming, fishing.

W. L. JOHNSON Proprietor. TAYNE'S MOUNTAIN HOME. Formerly Maudslayi's Hotel. Ideal spot. Hunting, fishing, camping.

HOTEL NORTONIA. "The Hotel You Should Know". The ideal hotel for you to stay at while in Portland.

BAILEY GATZERT. Leaves Portland daily at 7 A. M. except Sunday and Monday. DALLEY CITY. Leaves Portland Tuesday, Thursday and Saturday at 8:30 A. M.

A Cool Grove on the River OREGON CITY BOAT. SUNDAY, JULY 4. McCroskie's Mount Hood Auto Stage, three stages, daily leave Hawthorne Garage, 445 Hawthorne Avenue, Phone East 523.

VILLA CAMP. Two-room cottages, furnished complete for housekeeping. Electric lights, etc. Write L. J. TOLLS & SONS, Bar View, Oregon.

WELCH'S HOTEL. Oldest resort in the Mount Hood district. Good water, airy bungalows, excellent cuisine, hunting, fishing, horseback riding, etc. Rates \$2 per day, \$10 per week.

the Oaks. Portland's Greatest Amusement Park—30 Acres of Rosess. TODAY'S FREE PROGRAMME: 2:30 P. M. AND 8:30 P. M.

TRAVEL BUREAU. Dorsey B. Smith, Manager. 116 THIRD STREET (Corner Washington).

The Shelburne SHELBUERNE STATION, North Beach. All modern improvements. One of the largest hotels on North Beach.

THE WARREN CANNON BEACH. The only hotel on the beach front. Good fishing, hunting and surf bathing.

THE ELMORE. That Delightful Beach Home, THE ELMORE. At Elmore Park, European only. Large, comfortable rooms amply furnished.

SHIPHERD'S HOT SPRINGS. The Ideal Health and Recreation Resort. Summer Cottage and Camping. CAISION, WASH.

The Nicolai Hotel. American and European Plan. Oldest first-class hotel built on the bank overlooking the Pacific Ocean.

SOL DUC HOT SPRINGS AND SANATORIUM. the greatest health and pleasure resort on the Pacific Coast, in the forest of the Olympic mountains.

WELCH'S HOTEL. Oldest resort in the Mount Hood district. Good water, airy bungalows, excellent cuisine, hunting, fishing, horseback riding, etc.

RHODODENDRON HOTEL. 47 Miles on Mount Hood Auto Road. The finest mountain resort in Oregon. Daily rates \$2, weekly \$12.50.

SHIPHERD'S HOT SPRINGS. The Ideal Health and Recreation Resort. Summer Cottage and Camping. CAISION, WASH.

NEWS FROM THE BEACHES

brown cottage adjoining the station on the north. M. F. Abrams and family, of Portland, are temporarily ensconced in a cottage opposite the apartment. Mr. Abrams is having a new home built a few blocks farther north. Mr. and Mrs. Clyde H. Hizer are located in a tent at the White Camp for a few months. Miss Ethel Harrington, of Portland, is a guest at the Abrams cottage for a few weeks. Morris Rodgers and Floyd H. Eichel, of McMinnville, came over by auto during the forepart of the week for a short visit with N. O. Terry and wife. Henry Ellis is in from Portland, visiting with P. R. Johnson. A. C. Stammer, L. J. Tolls and sons, Roy E. and Leveritt J. Jr., are in from Portland at "Camp Villa." M. T. Robinson, of Portland, has opened Camp "Al Al One" for the season, and is entertaining this week Lee Alley and family, also from Portland. They had as a week-end visitor Mrs. A. H. Lewis, a sister of the host. Following is the registration at the Bar View Hotel for the past week: William Vanderzander, Henry Kemper, Martin Jansen, Julius Kendal and M. A. Vanderzander, of Forest Grove; C. W. Batman, I. R. Smith, J. Monahan, W. C. Holtgreve, L. P. Myers, W. H. Jensen, H. D. Dresbach, Louis Andt and wife, Henry Reider, S. F. F. Jensen, Frank L. Greene, Charles K. Segourney, Mrs. H. Carlson and son Will, Dr. Cecil R. Hillier and F. P. Bowers, all of Portland; Miss Ida Worrall, Fulton, Mo.; Nellie Reid, Norcross, Kan.; Miss Hazel Worrall, Tillamook City; S. S. McCagus, Sunnyside, Wash.; Miss Nellie Thompson, Spokane; Roy Groust, Wheeler; Mrs. E. W. C. Harper, Eugene; F. J. Fellows and wife, Forest; C. C. Stammer and H. D. Anken, from Wheeler Jetty. IMPROVEMENTS are being made and homes completed at a rapid rate in preparation for the summer season. The presidential cottages, "Wilson, Taft and Roosevelt," of C. L. Lindsay, of Elmore Park, are the subject of a favorable comment on the part of the permanent growth of this new beach. Miss Edith Lindsay, who has just returned from the martial academy at Tillamook, is being entertained by Miss Gudrun Brandt at Breezy cottage.

enhanced wonderfully. And many parties, picnics and hikes are planned for the immediate future by the members of the younger set. The new auto road is proving a boon to the many people that make this their, Summer home. Miss Edith Stallay, of Forest Grove, has taken apartments in Hart's cottage at Midway Beach. Kenneth Loughead, of Portland, is among the recent arrivals. Mr. and Mrs. R. L. Sampson, of Hillsdale, have opened their cottage for a few days recuperation. Mr. Malcolm Kusley, accompanied by his sister Margaret, has arrived from his home in Seattle and opened the family cottage for the season. They are entertaining as house guest for a few weeks Miss Margaret Kubil, of Portland. Mrs. G. V. James and family have taken residence in their summer home, and will be joined later by Mr. James, who is interested in a mill at Bay City. Mrs. Scott Bonorth and son Milton, of Portland, are located in their cottages on the ocean front. Among the recent arrivals from Portland were Mrs. E. C. Comstock and family, who have taken a cottage for the season. They are entertaining as a house guest Mr. Frederick Meiners, also of Portland. Mrs. John O. Bonorth, wife of a prominent Bay City banker, accompanied by her daughter, Ada, spent a few days at the family cottage. They have as a house guest, Mrs. Mae Hartung and son Earl, of Portland. Mrs. E. C. Callaway has arrived with her family from Portland and taken a bungalow. Judge Dayton, of the Multnomah County Court, came in with his family during the week for a month's outing. The Tempest Cottage is now occupied by Mrs. A. A. Gardner, who is here from Portland for the season. C. H. Stone, J. H. Hicks and A. E. Nichol were in a party that visited this section by auto during the week. A. H. Nigro, of Tillamook, was a guest at the week for the last week end. Dr. Robert Swan and wife left Monday for their home in Portland after a delightful two weeks' vacation. Miss Florence Outhout is a guest at the V. A. Spaulding residence for the season. Mr. and Mrs. O. H. Schwardzman, of Bay City, were guests during the week at the James cottage. Mrs. C. W. Woodward and six sons have arrived and are domiciled in the Swan cottage. They have as a guest Miss Audrey Bentley, of Portland. George E. Chappe, wife and two chil-

children, of Tillamook, enjoyed the local atmosphere and hikes are planned for the immediate future by the members of the younger set. The new auto road is proving a boon to the many people that make this their, Summer home. Miss Edith Stallay, of Forest Grove, has taken apartments in Hart's cottage at Midway Beach. Kenneth Loughead, of Portland, is among the recent arrivals. Mr. and Mrs. R. L. Sampson, of Hillsdale, have opened their cottage for a few days recuperation. Mr. Malcolm Kusley, accompanied by his sister Margaret, has arrived from his home in Seattle and opened the family cottage for the season. They are entertaining as house guest for a few weeks Miss Margaret Kubil, of Portland. Mrs. G. V. James and family have taken residence in their summer home, and will be joined later by Mr. James, who is interested in a mill at Bay City. Mrs. Scott Bonorth and son Milton, of Portland, are located in their cottages on the ocean front. Among the recent arrivals from Portland were Mrs. E. C. Comstock and family, who have taken a cottage for the season. They are entertaining as a house guest Mr. Frederick Meiners, also of Portland. Mrs. John O. Bonorth, wife of a prominent Bay City banker, accompanied by her daughter, Ada, spent a few days at the family cottage. They have as a house guest, Mrs. Mae Hartung and son Earl, of Portland. Mrs. E. C. Callaway has arrived with her family from Portland and taken a bungalow. Judge Dayton, of the Multnomah County Court, came in with his family during the week for a month's outing. The Tempest Cottage is now occupied by Mrs. A. A. Gardner, who is here from Portland for the season. C. H. Stone, J. H. Hicks and A. E. Nichol were in a party that visited this section by auto during the week. A. H. Nigro, of Tillamook, was a guest at the week for the last week end. Dr. Robert Swan and wife left Monday for their home in Portland after a delightful two weeks' vacation. Miss Florence Outhout is a guest at the V. A. Spaulding residence for the season. Mr. and Mrs. O. H. Schwardzman, of Bay City, were guests during the week at the James cottage. Mrs. C. W. Woodward and six sons have arrived and are domiciled in the Swan cottage. They have as a guest Miss Audrey Bentley, of Portland. George E. Chappe, wife and two chil-

duce the number of marriages which is annually expected of it. Weddings are synonymous with June. But the brides of 1915 have deserted it for the other 11 months of the year. The records of the County Clerk's office show that only nine marriages were recorded during June, while the previous five months had a grand average of 16. Albany Ready for Chautauqua. ALBANY, Or., July 2.—(Special)— Everything is in readiness for the opening of Albany's annual Chautauqua assembly next Tuesday morning. The camping grounds have been prepared, the auditorium placed in shape and headquarters established. The advance sale of season tickets has been heavy, and, with one of the best programmes in its history, the Chautauqua will open with every prospect for a successful season.

JYMWA CLUB HOLDS ELECTION OF OFFICERS.



Reading From Left to Right, Top Row, Benjamin Rossumy, Abe Apple, Annie Epstein, Sydney Stern, Boris Secord; Bottom Row, Besie Staff, William Bloom, Tillie Nusbaum and Max Goldstein. A club that promises to become an active factor among the younger set of Portland is the Jymwa Society, an organization composed of young Jewish men and women who have organized for mutual advancement socially and intellectually. Various committees have been appointed and functions planned for the summer. On July 13 a moonlight excursion will be held. The following officers were elected: President, William Bloom; vice-president, Miss Besie Staff; secretary, Tillie Nusbaum; treasurer, Max Goldstein; editor (Jymwa Doing), Benjamin Rossumy; sergeant-at-arms, Abe Apple; chairman of social committee, Sydney Stern; chairman of literary and intellectual department, Boris Secord; representative at large, Annie Epstein.