

Normals Make Collections of **Desert Flora at State** University.

TORCH AND RABBIT BRUSH.

Interesting Species of the Dry Lands And What They Signify as to Soil and Climate

A collection of our characteristic desert fiora is easily made. The children of four grades at the State Normal have collected and now readily recognize at sight the most common of the species that thrive on the dry lands, so as to be able to give useful and interesting information about each of them; while the student-teachers have preserved in herbariums, with some matters of technical description, a collection of the leading forms. The desert species do not look inviting at first as objects of study but a short acquaintance with their structure, habits and uses, will awaken enthusiasm.

AROUSING AN INTEREST. The teaches asks such questions as



BRANCHES OF RABBIT-BRUSH. From pen drawings by pupils of the

state normal training school. ous, yellow, perfect, with stamens and

pisils, in clustered involucers one-eighth of an inch in diameter, with five to eight flowers in each involuce; the anther tibs of the stamens being pointed and slender; the pisill with a pointed and slender; the pistil with a divided style at the top and without any pappus; the involucre of several rows of scales, the outer covered with short wool. The leaves grow in fascl-cles of from five to ten and are wedge-shaped, an inch long, cut off square at the top, and incised there with three teeth (occasionally more), whence the name artemesia tridenta. three teeth (occasionally more) whence the name artemesia tridenta.



BRANCHES AND FRUIT OF SAGE-BRUSH.

Drawa from nature by eighth grade pupils. On the left above, a flowering branch of the common sage, artemesia tridentata. In the center a leafy branch. At the right a branch of the white sage. At the bottom, leaves and flower head (involucre) of the sagebrush.

ia. The bark is shreddy, the wood tough, the roots thick and spreading. The aroma is strong and invigorating, but not sweet. The medicinal qualithese: What plant is most common in these: What plant is most common in the Rocky mountain region? What is the most striking feature of the plant? What is its color? It's shape and size? The odor of its leaves? What of its prevalence and discful qualities? Any one in the west would respond, as the students did in the nature-study section, that it is the sagebrush, that its color is sliver-gray and really beautiful, haris silver-gray and really beautiful, har-monizing with many other hues, that its odor is healthful and aromatic and that its obvious useful qualifies are worth special mention apart from its relatively unknown medicinal proper-ties. THE SAGE BRUSH.

ties are supposed to be many, but beyond its use as a household remedy in certain aliments, little seems to be known of this line of inquiry, OTHER SAGES. Two other growths resembling the Two other growths resembling the sagebrush are occasionally found as-sociated with the former. These are two kinds of white sage, one of which has entire and the other divided leaves. These are A. cana which has leaves an inch or two long and entire, or with or two three large acute teeth, and A. Ludoviciana, a foot to a yard high, and covered with white woolley nubescene.

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chellus and Biglovii, for the two prin-cipal kinds that mostly flourish here. The pale shining stems, canescent with a very short and close tomentum when young, and the leaves thin as lines (filiform) an inch or two long, are the most noticeable features of these desert or plain shrubs; though the minute study of the interesting flowers repays the trouble. First, the students are shown how to size the top of the flower head and to lift out the flowers from the involuere. These top of the flower head and to lift out the flowers from the involuere. These are five in number, and unlike the sunflower and aster, they have no rays, the corollas all being dainty lit-tle tubes with five teeth each, there-by showing the number of the united petals. Like the aster, however, each fruit (akena) has a copious, soft pappus of capillary bristles in place of a calyx; and the akene is silky

with short and fine pubescence. The branches of the forked style are long and narrow, the anthers pointed, the akene peg-shaped. The slender fili-form leaves and the dry stems indi-cate that nature guards these plants from losing their moisture by rapid evaporation from the leaves, as in the case also of the torchweed and sage-brush. In the greasewood and shad-scale these peculiarities are still more strongly marked, for these plants have no water to waste. The rabbit brush thrives in a heavier soil, re-quiring more clay than the sages, and it is not averse to alkali in the land. it is not averse to alkali in the land The accompanying drawings were made by the training school pupils as part of their regular work in art, and as an flustration of what they had been taught by the normals in nature study.

NOVEMBER 1.

NEXT WEEK IN HISTORY.

OCTOBER 28.

1467—Desiderius Erasmus, distinguished scholar and writer, born; died 1526. Erasmus at first favored, but later opposed, the reformation and engaged in a controversy with Luther.
1492—Columbus discovered Cuba.
1708—Prince George of Denmark, husband of Queen Anne of England, died.

died

 1609--Sir Matthew 'Hale, eminent Engitsh judge, born; died 1676.
 1755-Awful earthquake in western Europe and Africa; Lisbon de-stroyed, with 50,000 lives; cities in Spain, Morocco and the islands of the Atlantic suffered severely.
 1757-Antonio Canova, sculptor, born; died 1822. 1766—Marshal Grouchy, the com-mander blamed by Bonaparte for his loss at Waterloo, was born at

Paris. 1776-Battle of White Plains, N. Y.

1791-Lydia Huntley Sigourney, Amer-

1776—Battle of White Plains, N. Y.; Americans defeated.
1864—John Leech of Punch, the most fertile humorist known in modern pictorial art, died; born 1807.
1877—Julia Kavanagh, well known lit-terateur and novelist, died at Nice, Italy; born 1824.
1900—The Right Hon. Friedrich Max Muller, professor of philology at Oxford university, died at Oxford; born 1823. born 1823.

OCTOBER 29.

1740-

1618-Sir Walter Raleigh beheaded at

S--Sir Walter Raleigh beheaded at Westminster.
O-James Boswell, noted biographer of Dr. Johnson, born in Edia-borough; died 1795.
3--Jean le Rond d'Alembert, a French foundling who became a noted mathematician and man of letters, died in Paris; born there 1717

1796-John Keats, poet, born; died

1821

1821. 1829—Thomas Francis Bayard, states-man, the first United States am-bassador (appointed under that title) to England, born in Wil-mington, Del. 1842—Allen Cunningham, Scottish awthor and next editor of Pob-

author and poet, editor of Rob-ert Burns' works, died; born 1785. 5-General George Brinton Mc-Ciellan died at Orange, N. J.; born be Bullederbie 1992

in Philadelphia 1826. In Philadelphia 1826. 9—Florence Marryat (Mrs. Francis Lean), English novelist, died at Brighton, England; born 1837. 3—Mrs. Booth-Tucker, well known Salvation Army leader, killed in a railroad accident in Kansas.

OCTOBER 30.

1735-John Adams, second president of the United States, born; died 1826.
 1759—Earthquake in Syria; Baalbee destroyed and 20,000 lives lost.
 1860—Admiral Thomas Cocrane, earl of Dundonald, a dashing payal

ifesto granting civic liberty.

OCTOBER 31.

AND DEMOCRATIC STATE TICKET. For Congress, ORLANDO W. POWERS of Salt Like County. For Justice of the Supreme Your, J. W. N. WHITECOTTON Of Utah County. TROUBLESOME-OFFENSIVE-DANGEROUS

Nothing is more discouraging than to have an unhealthy sore or Nothing is more discouraging than to have an unhealthy sore or ulcer resist one treatment after another, sometimes scabbing over and apparently getting well, then returning with renewed energy and becoming worse than before. Sores and ulcers are not due to outside causes; if they were, salves, plasters, lotions, etc., would cure them. They are kept up by a diseased and polluted condition of the blood brought on by the absorption of refuse and waste matters of the body into this vital fluid. These acccumula-tions, find their way into the blood, usually because of an inactive and sluggish condition of the system. Nature intends that they shall be carried off through the usual channels of waste, but the different members failing to perform their duties properly leave the matter to sour and ferment. The blood then, in its effort to keep the system healthy, absorbs these poisons and at the first bruise, cut or wound the sore is formed, and the constant drainage of foul matter through it keeps the place open and irritated drainage of foul matter through it keeps the place open and irritated so it cannot heal. Another cause for old sores and ulcers is the pol-



so it cannot heal. Another cause for old sores and ulcers is the pol-luting or weakening of the blood from the re-mains of some constitutional trouble or the effects of a long spell of sickness. S. S. S. begins at the fountain-head and drives out all poisonous matter and germs, and makes a last-ing cure. As soon as the system gets under the influence of S. S. S. the inflammation gradually leaves, the flesh takes on a healthy color, and soon the place is permanently healed. Book on sores and ulcers and any medical advice with-out charge. THE SWEFT SPECIFIC CO., ATLANTA, GA.



For State Senators, PHILIP S. MAYCOCK, L. E. HALL, For Representatives, C. P. OVERFIELD, STEPHEN L. RICHARDS, DAVID J. WILLIAMS, SAMUEL RUSSELL, SAMUEL RUSSELL, THEODORE TOBIASON, WILLIAM W. RAY, PERLEY A. HILL, MAHONRI SPENCER, ALAN L. LOVEY, JACKSON R. ALLEN, For County Commissioners. Long Term, JOHN CLARK. Short Term, THOMAS H. QUILLAN. For Sheriff, JOHN F. HOWELLS. For Clerk, ALBERT J. SEARE,

COUNTY TICKET.

For State Senators,

For Recorder. STEPHEN L. MOYLE. For Auditor, MAXWELL R. BROTHERS. For Treasurer, LAWRENCE H. YOUNG. For Attorney, ASHBY SNOW, JAMES E. LYNCH. For Surveyor, GEORGE M. BACON. SALT LAKE PRECINCT. For Justice of the Peace, HARRY S. HARPER,

For Constable, SAMUEL ALLEN,



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NOVEMBER 3.
1493—Columbus, on his second voyage, reached Dominica.
1794—William Cullen Bryant, American poet and editor, the author of "Thanatopsis." born at Cummington, Mass.; died June 12, 1878, in New York.
1820—John Esten Cooke, American author, whose writings were chiefly of southern inspiration, born; died 1886.
1892—General Samuel Wylie Craw.

1360—Admital Thomas Coeffane, earling of Dundonald, a dashing naval commander who saw service with the British, Chilean and Brazilian fleets, died: born 1775.
1362—Ormsby MacKnight Mitchel, astronomer and soldier, died at Beaufort, S. C.; born in Kentucky 1809, General Mitchel established at Cincinnati the first large observatory built in the United States. He was in command of the federal department of the south at the time of his death.
1884—Pasquale Brignoli, noted tenor, died in New York city; born in Naples 1824.
1891—General Truman Seymour, a veteran of the Maxican and Civil wars, died in Florence. Seymour was an officer at Fort Sumter in April, 1861. He commanded the division which stormed Fort Wag-

1892-General Samuel Wylie Craw-ford, one of the defenders of Fort

Sumter, died in Philadelphia; born 1829. 1893—A cargo of dynamite exploded at the quay in Santander, Spain; nearly 1,000 people killed and injured. 1903

The independence of the repub-lic of Panama was proclaimed.

WOUNDS, BRUISES AND BURNS. By applying an antiseptic dressing to wounds, bruises, burns and like injuries

born 1845. 1903—Professor Theodor Mommsen, famous German historian, died in Berlin; born 1817. 1905—Riots and attacks on the Jews at Odessa. NOVEMBER 2. 1767-Edward, Duke of Kent, father of Queen Victoria and at one time commander of the forces in Brit-ish America, born: died 1820.
1795-James Knox Polk, eleventh president, born: died 1849.
1887-Jenny Lind-Goldschmidt, noted vocalist, known os the "Swed.

vocalist, known as the "Swed-ish Nightengale," died in London; born in Stockholm 1821. Jenny Lind began her wonderful Ameri-can tour under Barnum in 1849. She married in America in 1851

and afterward lived in retirement in London.

In London.
1892—Lieutenant Frederick G. Schwat-ka, soldier and explorer, died at Portland, Ore.; born 1849.
1901—Major Alexander Sharp, U. S. A., retired, brother-in-law, of Gen-eral U. S. Grant, died at the Presi-dio, California; born 1826,

NOVEMBER 3.

The first plant to strike the attention The first plant to strike the attention of the stranger coming into the arid west then, is the "everlasting sage-brush," which usarps entire predomi-nance of the soil, covering hill, valley, and mountain, and extending in some places for hundreds of miles without perceptible interruption. The sage-brush has been the main firewood of the lease tempers and softling for one hold ert camper, and settler for over half

pubescence. These while ages and others are said to indicate a very fertile soil of themselves and to make excellent pasturage, especially for sheep,

THE TORCH WEED. A unique growth found upon many

1517—Luther published his "Thesis" at Wittenberg; beginning of the reformation.
1735—John Adams, second president of the United States, born; died July 4, 1826. Adams died within a few hours of Thomas Jefferson, 1861—Formation of the alliance of France, Spain and England which led to the Maxmillian campaign in Mexico,

led to the Maxmillian campaign in Mexico.
1873—The Cuban filibustering steam-er Virginius captured near Ja-maica by the Spanish gunboat Tomada and taken to Cuba.
1879—General Joseph Hooker died at Garden City, N. Y.; born 1814.
1890—Jonathan N. Nussbaum, sur-gene and coulist died at Munich; geon and oculist, died at Munich; born 1829.

1905-Railway strike committee of

CATARRH OF THE STOMACH

A Pleasant, Simple, But Safe and Ef-fectual Cure for It,

COSTS NOTHING TO TRY.

Catarrh of the stomach has long been Catarrh of the stomach has long been considered the next thing to incurable. The usual symptoms are a full or bloat-ing sensation after eating, accom-panied sometimes with sour or watery risings, a formation of gases, causing pressure on the heart and lungs and difficult breathing, headaches, fickle appetite, nervousness and a general played out languid feeling.

appetite, nervousness and a general played out, languid feeling. There is often a foul tasto in the mouth, coated tongue and if the interi-or of the stomach could be seen it would show a slimy, inflamed condition. The cure of this common and obsti-nate trouble is found in a treatment which causes the food to be readily, thoroughly digested before it has time to ferment and irritate the delicate mucous surfaces of the stomach. To secure a prompt and healthy digestion is the one necessary thing to do and when normal digestion is secured the catar-<text><text><text><text>

wounds, bruises, burns and like injuries before inflammation sets in, they may be healed without maturation and in about one-third the time required by the old treatment. This is the greatest discovery and triumph of modern surgery. Cham-beriain's Pain Balm acts on this same principle. It is antiseptic and when applied to such injuries, causes them to heal very quickly. It also allays the pain and soreness and prevents any danger of blood poisoning. Keep a bottle of Fain Balm in your home and it will save you time and money, not to mention the in-convenience and suffering such injuries entail. For sale by all druggists, April, 1861. He commanded the division which stormed Fort Wag-ner, South Carolina, in 1863. 1896—Cardinal Hohenlohe, German prince, ranking member of the sacred college, died in Rome. 1905—Czar Nicholas II issued a man-ticato granting chick liberts. When Afflicted

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BRANCHES OF TORCH-WEEDS.

On the left two branches of the small and commoner form. On the right, the more robust form, G. longifolius. Drawn from nature by training school pupils.

a century, and is to be regarded as a special provision of nature to cover the earth with a useful and orna-mental shrub, where for thou sands of square miles the soil is too dry for almost any other form of vegetation. It is a plant with-out any noxious qualifies, is easily cleared from the soil, has a delicate and gray with a greenish hue. With modest preference this plant prefers to live apart from regions in which man be-grots from the cultivated field and froots generally do not go deep into the soil and a very little rough usage averages perhaps three feet in height by two feet in diameter, but with oc-six feet in moister soil, or is dwarfed to less than a foot in beight where the preference in diameter, but with oc-six feet in moister soil, or is dwarfed to less than a foot in beight where the preference in diameter, but with oc-six feet in moister soil, or is dwarfed to less than a foot in beight where the preference in diameter, but with oc-sis feet in moister soil, or is dwarfed to less than a foot in beight where the preference in diameter, but with oc-sis feet in moister soil, or is dwarfed to less than a foot in beight where the preference in moister soil. And its thriftiness in A century, and is to be regarded as a period of a user to cover the period of a user to cover to the period of a user to cover the period of a user to cover to cover the period of a user to cover to the period of a user to

THE RABBIT BRUSH.

n fertile soil. And its inritiness in ny place is a rough indication of the egree of fertility of the land it occu-ies. If one can get water to any and that is covered with thrity sage-rush, he may be sure of a fruit or rain farm of the highest productive-ress, on which also will thrive almost very vegetable of the latitude and litude. METHOD OF STUDY. Find the flowers-small, inconspicu-