

parities far from water courses, but will, I believe, only grow upon soil of the first quality; and so well is the fact established, that the mesquite groves or 'flats,' as they are called, are sought after in western Texas as the most desirable spots for cultivation, and they have thus far proved exceedingly productive.

The trees stand at wide intervals, upon ground covered with a dense carpet of verdure, and a stranger, on approaching one of the groves, cannot resist the impression that he has a peach orchard before him, so striking is the resemblance.

The blossoms put forth in June, and a fruit appears in the form of a long, slender bean, from which the Mexicans make a cooling and pleasant beverage. These beans ripen in September, when they fall to the ground and afford sustenance to wild horses, deer, antelope and turkeys.

The pod is highly saccharine and nutritious, and is used for food by the natives of the plains, as well as those west of the Rocky Mountains. The Indians upon the Colorado and Gila rivers pulverize and press them into cakes, which are said to be very palatable.

They make most excellent forage for horses and mules, and there are many instances where they have sustained those of the California emigrants from perishing upon some of those long and tiresome 'jornadas,' or sandy and barren deserts, towards the Pacific.

A tree very similar to the mesquite, called the 'carob tree,' is found in the south of Spain. It affords a bean like the mesquite, which is imported under the name of the 'Algarrobo bean.' It is made use of for food in Spain, and is there called 'St. John's bread.' It was this bean that often constituted the only forage of the English cavalry horses during the war of 1811 and '12.

The species of acacia from which the gum arabic of commerce is obtained (the acacia vera) is a hard, withered-looking tree, with a crooked stem and gray bark, very similar in external appearance to the mesquite.

The gum of the mesquite exudes from the trunk and branches wherever there is an abrasion in the bark. It is also produced when a cut is made with a sharp instrument, in the same manner as the sap is drawn from the sugar maple. It commences exuding in July, and continues until the last of September. It is, at first, in a semi-transparent and nearly fluid state, but soon hardens by exposure to the sun and air; and if there is no rain, (and there is seldom any at this season,) it forms upon the bark in globules as large as a hen's egg, and can be collected in large quantities, and I have no doubt it will eventually become an important article of commerce, answering all the purposes of the gum arabic of the shops.

Specimens of the gum which I collected last summer, were submitted to Dr. John Torrey, who has returned to me the following remarks upon the subject, which, coming from so distinguished a source, will be read with interest:—

"The collection of plants made by Dr. James in his expedition to the Rocky Mountains was submitted to me for examination, an account of which, with descriptions of all the new species that it contained, I published in the 'Annals of the New York Lyceum of Natural History,' in 1827. [Vol. 2, pp. 161-254.] The mesquite was found to be a new species of the genus prosopis of Linnaeus, to which I gave the name of P. glandulosa, and a figure of the plant accompanied the description. The eminent botanist, Mr. Bentham, who has made a special study of the leguminosae, considers the section algarobia of Prosopis as a distinct genus. His views were adopted in the 'Flora of North America,' by Dr. Gray and myself; so that the plant is there described as 'algarobia glandulosa.' [Torrey and Gray, H. N. Amer., 1, pp. 399.] Twelve or more other species are natives of Mexico and the western coast of South America. All of them bear a long, compressed pod, which is filled with a sweet, nutritious pulp. The mesquite pods were used as food by Major Long's party. They constitute, also, a most valuable fodder for animals.

"For several years I have known that a gum allied to gum arabic exuded from the trees, especially where they were wounded. Specimens of the gum were long ago brought to me by different travelers, from New Mexico and Western Texas; but I never examined the substance particularly till I received a supply of it a few days ago. At your request I submitted it to examination, and compared it with the well known gum arabic.

"The mesquite or algarobia gum is intermediate in appearance between the darker kinds of gum arabic and cherry-tree gum. Portions of it, however, are almost colorless, and have the roughish surface and cracked structure that belong to the better kinds of gum arabic. The portion that you sent me was probably not gathered with particular care; for some of it has particles of bark attached to the lumps, or disseminated through them.

"On testing the solubility of the gum in cold water, it dissolved as readily as gum arabic, and the mucilage, though of a brownish tint, was destitute of bitterness or other unpleasant flavor, and it is strongly adhesive. When the solution is poured into a shallow vessel, and left to spontaneous evaporation, it leaves the gum in transparent brilliant plates, having all the qualities of the original gum.

"If the gum cannot be gathered without a small portion of dirt being entangled in it, the best plan would be to dissolve it in water and let the dirt subside, or separate it by straining. The mucilage might then be dried, the thin plates of gum bleached in the sun, and afterwards pulverized.

"You are perhaps aware that the trees affording the mesquite gum and gum arabic belong to the same natural group of plants; so it is not remarkable that they so strongly resemble each other."

R. B. MARCY, Captain U. S. A.  
Messrs. Rushton & Co., New York.

#### Mulching with Shavings.

We notice that a correspondent of the Boston Practical Farmer writes to that paper that he has found that wood shavings answer a most excellent purpose for mulching young trees. The writer says, that having planted some fruit trees on a barren knoll, which although liberally mulched with grass, had assumed an appearance of premature decay, he put two barrels of shavings around each tree, spreading them out at the distance of four feet from the stem, a thin coat of grass being thrown over the shavings to keep them in place.

After two years of trial the trees treated with shavings are found to be flourishing beyond those which have not

had the same treatment. This use of shavings recalls some experience with sawdust for a like purpose. Along the road leading out of Jackson, where it passes the farm of S. O. Knapp, Esq., that gentleman has set out a row of ornamental trees. About the time of the commencement of the long drought he procured a large quantity of sawdust of which he put about three or four bushels around each tree until the period of our visit which was nearly a month; there had been no rain in that section, yet the trees which were maple, locust, mountain ash and oak, had all that dark green and healthy appearance which is so satisfactory to their owner, and when we went to examine the mulching material, it was found at a depth of an inch and a-half to two inches, to be as moist as though it had been rained upon within the last twenty four hours.

The capacity of wood either as shavings or as sawdust, to retain moisture and to draw it from the atmosphere, and then keep the earth which it covers in a favorable state to promote the growth of the tree renders either shavings or sawdust very valuable to orchardists, independent of their value as an excellent substance of manure. To those who are setting plantations for young pears, especially dwarfs, we think a mulching with sawdust will be found an excellent preventive of the death of a good many of those which would be apt to decay from the effects of a dry season.—[Michigan Farmer.]

HOW TO SECURE A LONG LIFE.—Rabbi Sera was asked by his disciples how he obtained such a long life. "Never," he answered, "was I easily excited in my house; never did I precede him whom I thought greater in honor and station; never did I think of the law in an unclean place; never did I walk four yards without studying on some part of it; never did I sleep or slumber in a house where they taught the word of God; never did I rejoice at an evil which happened to my neighbor; and never did I call any man by a nickname given to him in derision or sport."

#### CASH! CASH!

**HYDE & PRICE** will pay mostly cash for Wheat, Corn, Oats, Bran, and Eggs, if delivered soon at the "Flour, Feed, and Provision Store," on east Temple street, G. S. L. City. 5-3t

#### FOR SALE CHEAP.

**A GOOD house and part of a lot,** in the 16th ward, south west corner of school house block. Terms made known by application on the premises. 5-2t J. Q. DAVIS.

#### FOR SALE OR RENT.

**THE Lake City Grist Mill,** having two run of stones and a smut machine. For particulars apply to the proprietor on the premises at Lake City, Utah County. 5-4t ARZA ADAMS.

#### GEORGE GODDARD

**WILL Exchange Merchandise for** Horses, Mules, Cattle, Cows, Harness, Wheat, Flour, Eggs, Butter, Cheese, Lumber, &c. 5-4t

#### GEORGE GODDARD

**WILL Supply Pedlars, Country Storekeepers, &c. with Merchandise on very advantageous terms.** (Call and See.) 5-4t

#### GEORGE GODDARD'S

**STOCK of Merchandise will continue** To be sold by Public Auction on Mondays, Wednesdays and Saturdays 5-4t

#### WAGONS, WAGONS!

**WE have for sale a number of excellent** wagons suitable for general use. Also Ox yokes, chains, &c., which we offer low for flour, wheat, oats and lumber, &c. 5-1t T. S. WILLIAMS, & CO.

#### ATTENTION CAVALRY.

**THE subscriber wishes to inform the** citizens of Utah Territory that he is manufacturing six shooting Pistols on the most improved style, to which he invites inspection at his shop in the 19th ward. 5-3t DAVID SABINS.

#### HO! EVERYBODY.

**WM. NIXON, COUNCIL HOUSE ST.** **THOSE Holding my Due Bills, please** Present them for payment. All to whom I am indebted call and be paid. All who owe me please come and settle immediately. 5-1t

#### FARMERS.

**WHO Wants to exchange a good** yoke of Cattle for one of the best 4 inch tire wagons in the Territory? Call at 5-2t GEORGE GODDARD'S, Auctioneer.

#### STRAYED

**FROM the subscriber at east Weber,** a brown cow, about 6 years old, line back, white face, red circle round her eyes, supposed to have a brand on her horns; was expected to have a calf about 1st of April. Any person giving information where she can be found will confer a favor and a blessing on the wife of an elder on a mission. 5-3t MARTHA McMULLIN, East Weber.

#### FOR SALE,

**AT the Salt Lake City Post Office,** Stamped Envelopes at the following rates:—Three cent Letter Size, at \$3.20 per 100. Six do 6.20 do Six cent official size, at 6.32 do Post Masters, Merchants, and others in this Territory can be furnished with any of the above by remitting the cash. 5-3t E. SMITH, P. M.

#### NOTICE.

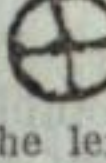
**THE following five acre lots in the** Big Field will be offered for sale on Monday, April 23d, inst., at 12 m., at Canyon creek bridge, for school taxes, if not settled before that date.

John C. Gray,	lot 5	on block 1
Henry Royle	" 14	" 3
Frank Pullin	" 19	" 5
Oliver Bess	" 2	" 7
Grey M. Keyser	" 4 and 10	" 7
William Hutchin	" 2	" 10
Moses Thurstin	" 4	" 10
Albert Fellows	" 5	" 10
Jesse Molen	" 10	" 11
Wm. S. Seeley	" 18	" 11
Gideon Gibbs	" 1	" 12

All proprietors of five acre lots are hereby notified that if they do not come forward and settle their school taxes forthwith, the lots will be sold for the same.

Taxes to be paid to Bishop A. O. Smoot, at the Sugar Works. CHAS. KENNEDY, HENRY WILDE, THOS. B. CLARK, School Trustees. 5-2t

#### FIVE COWS Lost.

**FIVE young cows** strayed from the herding ground of the Deseret Pastoral company, west side of Jordan, in the month of January 1853; one of them belonged to the D. P. Co., the remaining four to the subscriber; they were branded with  on the left hip,

and some of them with D P C on the left horn. I have frequently heard of their having been seen on the range west of Jordan, but have never been able to find them myself. Br. Bryant Stringham saw one of them nine or ten miles from G. S. L. City, near the Salt Lake Island road, about two months since, accompanied by a yearling calf, evidently hers, and a calf but a few days old. The whole of that region has since been hunted over without finding them. It is supposed that some person has taken them up. No one has a right to an animal with that brand unless they have obtained it of L. Snow, E. Snow F. D. Richards or myself.

I will liberally reward any person who will deliver any one, or all of those cows to me, at Tooele City or to Bryant Stringham G. S. L. City. 5-3t ELI B. KELSEY.

**IVINS, County Surveyor, Residence** 17th Ward, North of Temple Block. 4-6m

#### TAKE NOTICE.

**T. HAWKES, Umbrella and Parasol** Maker. Repairs and fixing done. Four blocks down Council House Street, 8th Ward. 4-3t

#### FOR RENT.

**THE well known Tavern Stand,** formerly occupied by Benjamin Hawkins, opposite T. S. Williams' old store, G. S. L. City. Inquire of C. MERKLY, 15th Ward. 4-3t

**Cooking Stove, Price \$50,** **CASTOR Oil, Davis' Pain-killer, good** Essences of Peppermint, Cinnamon, Lemon, Orange, and Cloves; Castile Soap, Yankee Soap, Walnut Oil, Military Soap, Almond Soap, Butterfly Soap, Hard Soap, and Soft Soap; Vinegar; Records, Record Ink, Steel Pens; Standard Works; Blacking; Toy Books, &c., &c. For Sale by H. L. SOUTHWORTH, East Temple Street, sign of Big Book. 4-3t

#### BATH-HOUSE TANNERY.

**THE Subscribers wish to say to the** Public, that they design keeping constantly on hand a supply of Sole and Upper Leather of the best quality, also ready made Boots and Shoes; and are prepared to make to order Boots, Shoes, &c., at the shortest notice, from home manufactured or imported leather; and will receive in exchange most kinds of produce, bark, hides, cattle, or cash. An assortment of Clogs on hand, also a few first quality Horse Collars. The highest price paid for Hides and Bark. 4-6months GOLDING & RALEIGH.

#### STRAYED OR STOLEN,

**FROM the Subscriber, on or about the** 20th of March last, from East Weber Fort, a three year old dark bay HORSE COLT (good sire for his age) one of the Godfrey's band of horses, branded on the right shoulder with a heart; four white feet and legs, about ten inches up short curly mane, and black curly tail. I will pay a liberal reward for the delivery of said horse, or any information so I get him. 4-3t GEORGE HIGLEY, East Weber Fort.

#### READ THIS.

**WHOEVER has found a White Hei-** fer, two years old, with red ears, a crop out of left ear; some red above the eyes, with small red spots on the neck and red mouth; a little red on the fore legs. Also, a Red Heifer, a heart on the forehead, white fore legs, a spot of white on the right hind hip, and mark like this H; about two years old. Also, a Heifer, white-lined back, red ears, a piece out of right ear; red and grey on the sides, white hind legs, and white face. Strayed from George Allen's Pasture supposed to have a calf. Any person bringing any of the same to the subscriber, will be rewarded by 4-3in T. CONDLIE, 4th Ward.

#### TO EMIGRANTS.

**CHRISTOPHER ARTHUR, Sen.,** bread and Cracker baker, will have on hand, or make to order, Bread and Crackers, which emigrants, traveling south to California, will find advantageous and economical in their store of provisions. 3-3m Cedar City, Iron County.

#### DR. WILLIAMS,

**HAS now resumed the practice of med-** icine and surgery, and may be found at his new residence, north-east corner of Temple block. He will attend promptly to all calls in the line of his profession. N. B. In case of ready pay, 25 per cent will be discounted. Those indebted will please call and settle. 3-1t

#### \$20 REWARD

**WILL be paid for the following** Strays [or \$5 for each of them.] A black Horse, branded Y on the left hip; a white Horse freckled with red, branded J C on the left hip, and an S on the shoulder, both about 9 years old; a 5 year old Ox, mostly white, some red spots, red about one eye, branded SHELTON on the horn. J. W. CROSBY, 17th Ward. 2-4t

#### LOOK HERE

**EVERY body in Utah who is expect-** ing to use brooms. We the subscribers are preparing to plant thirty acres of broom corn, which we intend to manufacture into brooms next fall and winter. Our brooms we will sell low and warrant them to do good service. We wish to supply G. S. L. City, and the other settlements in the Territory; and we solicit the patronage of the public. We hereby notify the people that they may expect to be furnished with brooms without their raising broomcorn for their own use. WM. H. CARPENTER, S. R. AIKIN. 2-10t

#### FOR SALE

**AT Salt Lake City Post Office, a large** amount of 3 and 12 cent Stamps, received by the last California Mail. 52tf E. SMITH, P. M.

#### NOTICE.

**THE highest price paid for Bark and** Sumac. Information given to those who desire it, when to cut, and how to cure the Sumac for tanning purposes. 34-6in WM. FIELD.

#### House and 1-2 Lot for Sale.

**THE Subscriber offers for sale his** Property in the 15th Ward—A 2 story Adobio House, 18 inch wall, containing 8 rooms; also a Stable and other Out Houses; the lot is well set with Fruit trees. One half of the pay taken at the Tithing Office, and Perpetual Emigrating Fund, and the other half in stock. 52tf THOS. FORSYTH, 15th Ward.

#### STRAYED OR STOLEN,

**ON or about the 1st of February, a** dark brindle Cow, line back, some white on belly and bush of tail; one horn larger than the other. Please to return the same, and be rewarded.

ALSO—In my possession, a dark red Cow, white belly hind legs, and rump; points of horns sawed off, no brands. The owner can have the above described animal by proving property, and paying charges. 52-1t ALEXANDER HILL, Pound Keeper.

#### HAT MANUFACTORY.

**THE subscriber has established the** above business on his premises in the 17th ward, one block north of Temple block, G. S. L. City, where he is prepared to execute orders for such qualities and styles as may be desired.

J. L. HEYWOOD.

#### WANTED

in exchange for hats, Otter, beaver, Fox, Mink and Rabbit pelts. ALSO—Firewood, Butter, Eggs, Pork, Lard, Wheat, etc. 3-1t J. L. H.

#### To Traders, Emigrants, and Freighters.

**MESSRS WARD & GUERRIER,** at Sandy Point, 7 miles west of Fort Laramie, on the main emigration road, would inform travelers to and from the States, and the public generally, that they will constantly keep on hand at their station, a good supply of fresh animals, groceries, provisions, and general assorted merchandise, which they will furnish on reasonable terms. They will also trade for cattle, mules, and horses. 36tf WARD & GUERRIER.

#### United States Mail to Manti.

**THE subscriber begs leave to** inform the citizens of Utah, that the United States Mail Coach, for passengers and parcels, will leave B. Hawkins' Hotel Great Salt Lake City, every Thursday, at 6 a. m., and arrive at Manti every Saturday at 6 p. m.; will leave Manti every Monday at 6 a. m., and arrive at G. S. L. City every Wednesday at 6 p. m. Passengers or parcels to Union, Draperville, Lehi, American Fork, Pleasant Grove, Provo, Springville, Palmyra, Payson, Nephi, Fort Ephraim, and Manti, will be carried on reasonable terms. 47tf JOHN DAILY.

#### Mail and Passenger Coach

**BETWEEN G. S. L. City** and Independence, will leave Hawkins' Hotel in G. S. L. City, and the Noland House in Independence, Mo., on the 1st day of each month at 8 a. m., stopping a short time at the following way-stations, viz:—Fort Bridger, Green River, Devil's Gate, Fort Laramie, Ash Hollow, Fort Kearney and Big Blue. Every facility and attention will be extended to passengers to render their trip speedy, and comfortable. For further particulars apply to the following agents: J. M. HOCKADAY, G. S. L. City, Utah. ISAAC HOCKADAY, Independence, Mo. aug24-24-1y

#### ADAMS & CO'S

**G. S. L. CITY** Express will be despatched, on or about the first of every month for California, Sandwich Islands, Australia, Atlantic States, and Europe. All treasures, valuable packages, and parcels forwarded to destination in charge of Messengers, without detention. Letters, papers, and collections will receive the utmost care. Particular attention will be paid to the purchasing, and forwarding of any goods that may be ordered from San Francisco. Office—with Livingston, Kinkead, & Co. P. S.—In consequence of the House of A. & Co. in San Francisco having suspended payments, no Exchange will be sold at this Office at present. 4tf FELIX TRACY, Jr., Agent.

#### UNITED STATES MAILS.

**BY the present arrangements made by** the Department, the Mails are to leave and arrive at Salt Lake City as follows:—

The Southern mail to Manti will leave every Thursday morning, and arrive every Wednesday evening. The California mail, via Fillmore, Parowan, and Cedar City, U. T., and San Bernardino, Cal., to San Pedro, will leave the 1st day and arrives by the 28th of every month. The mail to Tooele City leaves every Monday morning, and arrives every Tuesday evening. The Ogden mail leaves every Monday and Thursday morning, and arrives every Tuesday and Friday evening. The Eastern mail leaves the first, and should arrive by the last day of each month. The Eastern and California mails are closed as 4 p. m., the last day of each month—which correspondents will do well to remember. 41tf E. SMITH, P. M.

#### THE DESERET MEAT AND

**GENERAL Provision Store, East Tem-** ple Street, hitherto carried on by W. Jennings, will from this time be carried on by W. Jennings & J. R. Winder, who hope by an increased effort to accommodate the inhabitants generally, that they may continue to enjoy that share of patronage hitherto so liberally extended.

We intend to have always on hand the finest quality of Beef, Mutton, Pork, Hams, Bacon, Bologna Sausages, Dried Beef, Tongues, Tallow, Lard, Butter, Cheese, Candles, Eggs, &c., &c., to be sold at Low Prices, Small Profits and Quick Returns, being our motto.

In addition to the above we have commenced Tanning in all its branches and shall require a quantity of Bark and other Tanning Material.—Also, Hides and Skins, for which we will pay Cash or its Equivalent to suit the customer.

N. B.—Cash paid for Fat Cattle, Sheep, Hogs, Butter, Cheese, Eggs, &c., &c. Five thousand pounds of dried Bacon & Hams for sale low for CASH! WILLIAM JENNINGS, JOHN R. WINDER. 1-1t

#### AGENTS.

The following persons are requested to act as Agents for the Deseret News Vol. 5:

#### GREAT SALT LAKE COUNTY.

Kanyon Creek Ward	A. O. Smoot.
Gardner's Mill, Mill Creek	Robt. Gardner.
Mill Creek	Alex. Hill.
Big Cottonwood	Lyman Stevens.
South Cottonwood Ward	And'w. Cahoon.
Union	S. Richards.
Draperville	Wm. Draper.
West Jordan Ward	Joseph Harker.

#### TOOELE COUNTY.

Richville	J. Rowberry.
Tooele City	Eliz B. Kelsey.
Grantsville	Thos. H. Clark.

#### DAVIS COUNTY.

Stoker	John Stoker.
Centerville	A. B. Cherry.
Farmington	Jas. Letthead.
Kaysville	Sam'l. Henderson.

#### WEBER COUNTY.

Ogden City	J. G. Browning.
Bingham's Ward	E. Bingham.
South Weber	Thomas Kingston.
East Weber	A. Wardsworth.
North Ogden Ward	Thomas Dunn.
North Willow Creek	Salmon Warner.
Youngsville	Ed H. Pierce.

#### UTAH COUNTY.

Provo City	D. Carter.
Springville	Aaron Johnson.
Lehi City	David Evans.
Mountainville	Isaac Houston.
Cedar Valley	Allen Weeks.
American Fork	L. E. Harrington.
Pleasant Grove	Wm. G. Sterrett.
Palmyra	John W. Berry.
Payson	Chas. B. Hancock.

JUAB COUNTY	T. B. Foot.
SAN PETE COUNTY	George Peacock.
MILLARD COUNTY	S. P. Hoyt.

#### IRON COUNTY.

Parowan	J. C. L. Smith.
Cedar City	Isaac C. Haight.
WASHINGTON COUNTY	John D. Lee.
San Bernardino, Cal.	D. M. Thomas.