FARM AND ORCHARD.

Guinea Fowls are About the Easiest to Raise.

Poor Dried Fruits—Marketing Butter—Value of Roots for Feeding—Number of Trees to the Acre—General Farm Notes.

I consider the Guinea fowls about the easiest to raise that we have. They seem to have no time to fool away in contracting all the various diseases that come along, as is the case with other birds. They begin to lay in February or March, and may safely be called an every day layer until late in the fall, when they begin to molt, not as chickens do, but dropping a feather now and then, and not getting entirely through with their molting until late in the spring. At that season they pair off and begin to lay, usually producing from thirty to sixty eggs before wanting to sit, but by gathering the eggs every day you can make them lay the season through without their becoming decidedly broody. The Pearl Guineas are inclined to steal their nests, but the White will lay in the same nest with the chickens, no matter whether it be high or low. Their eggs, as well as flesh, are of the finest quality, and generally liked by those who have tried them. It is of no use to try to raise Guinea hens and hawks on the same place. The Guinea remains the master of the premises, and the hawk has to go. It takes twenty-eight days to hatch Guinea eggs, and from the moment they leave the shell they are at work searching for something to eat. I feed about the same as I do for ordinary chickens, and find them easily managed.

They make rapid growth for the first four weeks, then on account of feathering they grow a little slower for a short time, when all at once they seem to take a fresh hold, and outgrow anything on the place. They don't stand the cold very well, but thrive first-rate in hot weather. Both as chicks and fowls they run in flocks of four until mating time, when they pair off, and in so doing have many battles among the male birds. The Guinea is a great peacemaker, however, among other varieties. He will not allow the other poultry to fight among themselves, seeming to want a monopoly of that part of the business. If they persist in quarreling he takes a hand himself and soon disposes of the fighters. I have no kind of poultry on my ranch that can whip a Guinea, and I have some game fowls, as well as other good fighting birds. I have never had a case of roup nor of catarrh among my Guinea fowls. Some of them will go light (consumption); will eat well, and, to all appearances, are well, but at last you will find them dead under the roost a mere handful of feathers and bones.—O. W. Palmer, in Fanciers' Monthly.

VALUE OF ROOTS FOR FEEDING.

Carrots are better adapted to horses, producing a sleek coat, healthy appearance and good appetite. A horse getting a mess of them every night seldom requires medicine. Sheep having a fair share of turnips or mangels through winter and spring seldom lose their wool before shearing. The ewes have stronger lambs and a better flow of milk, that brings them on faster and earlier for the market, and the whole flock go upon grass in good condition. Milk cows give a larger flow of milk, and richer in quality, which means more butter and better calves. The old cows can be made into excellent beef. The young cattle can be brought into value much sooner and with more profit. The manure pile will be much larger and of better quality. One man in Ontario a few years ago raised 20,000 bushels of turnips. A neighbor said to him: "Mr. E., you had better sell 1,000 bushels; they will bring you $1,000." "No," he says, "I want them all fed on the farm, to go into manure." And he fed all of them. Farms on which roots are raised and fed are getting more productive every year. The dairymen say they would dispose of their cows if they could not have the roots for them. Those that feed cattle for export say they could not do it with a profit without them. One man says: "I could not educate my children as I do if it were not for the roots." And numbers of others tell us they have lifted mortgages that they could not have done otherwise. In conclusion, let me say that the root crop puts millions of dollars into the pockets of the farmers of Ontario every year. And the individual benefit can not be estimated.

MARKETING BUTTER.

The thousands of tons of butter that annually find their way to the village merchant, off flavor when it reaches him, and gone to the bad when it arrives in the great market, is one great reason why the farmer should sell the butter as fast as made, and, if possible, to a butter dealer, instead of the cross-roads grocery man, who gives cheap groceries in exchange for it, instead of cash. Tons upon tons of good butter are utterly ruined in the method of its sale. Kept at home until it has lost its fine flavor, then held a few days at the store, and, finally, when three or four weeks out of the churn, and protected little, if any, during the time, it at last is sold far belowbest quotations, another strong example of butter "kept for a rise." The country merchant must buy butter because he has to, or lose custom. Butter should be sold to a butter dealer, and for cash. The country merchant must buy butter of all sorts, low, and for exchange, if possible, and so, in reality, the farmer's wife gets next to nothing for her summer butter. Why not send this butter in attractive packages, twice per week, to the city butter dealer, and get cash? Better 12½ cents cash in the city market than 10 cents store pay at home, and in trade at that. A large reason why dairying does not pay better is from the crude, unbusinesslike methods of marketing produce. The fault is not so much in our stars as our methods after the stars have left. The rule for selling butter is, sell it fresh, sell to a man who deals in butter as a business; sell butter for cash; and, lastly, put it up in small, tasty packages, that will reach the customer unbroken.—Practical Farmer.

NUMBER OF TREES TO THE ACRE.

We give in the following table the number of trees or plants required for an acre of ground if placed at an equal distance apart:

Distance apart each way.	No. of plants.	Distance apart each way.	No. of plants.
1 foot	43,560	12 feet	302
2 feet	10,890	14 feet	222
3 feet	4,840	15 feet	193
4 feet	2,722	16 feet	170
5 feet	1,742	18 feet	134
6 feet	1,210	20 feet	108
7 feet	888	25 feet	69
8 feet	680	30 feet	48
9 feet	537	35 feet	35
10 feet	435	40 feet	27

If other distances than those given are required, multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or tree. Divide this number into the number of square feet in an acre, 43,560, and the result will be the number of trees or plants required for an acre.—Kansas Farmer.

POOR DRIED FRUITS.

We again earnestly caution owners to be careful of the quality of dried fruit which is put upon the market. It is far better to throw away poor stuff than to demoralize the market with it and depreciate the value of really good fruit. There is plenty and to spare this year and we cannot afford to sell anything but what is good. Some of the apricots that are being offered are scarcely fit to feed hogs with and should never have been dried. The day is fast coming when growers will begin to realize that neither green nor dried fruit can for many years sell simply because it comes from California, but that the quality of our products alone will determine our horticultural future.—California Fruit-Grower.

GENERAL FARM NOTES.

Pear juice, heated to 180 degrees, and sealed in bottles, will not only keep well, but prove a refreshing drink in winter.

A single drain will sometimes convert a wet field into a fertile one. As long as the water remains near the surface the land will be cold.

Kerosene is the best of all insect destroyers and the cheapest, but as it will injure plants and trees, it should be applied as an emulsion.

Watermelons are seldom sweet and well-flavored if the summer is wet. Though abounding in water the melon thrives best on a somewhat dry and sandy soil.

Someone has suggested that the dogs carry bells instead of the sheep, and that every dog collar should have a bell attached to it, which would give indication of their presence.

Old strawberry beds do not send out many runners, but make quite a growth in the rows. An application of wood ashes and superphosphate will prove beneficial to such beds.

The tomato will bear ripe fruit and contain blossoms at the same time. The vines grow into a dense mass unless they are supported. Cut out some of the branches and allow the sun to enter.

Kiefer pear trees grow very rapidly and usually gain too much hight in proportion to thickness of trunk. The trees should be cut back severely, so as to render them stouter and less liable to injury by winds.

The cabbage crop is one of the most important. At no stage of its growth must grass or weeds be allowed between the rows. Deep cultivation is not required, but the surface of the ground must be kept clean and loose.

Black knot on trees is a disgusting sight. Although remedies are suggested, the first duty is to cut away all signs of the black knot, and then prevent its return with the use of remedies which destroy or prevent fungus growth.

Foot-rot destroys more sheep than any other disease, yet foot-rot may be avoided by keeping the sheep on dry locations and paring the hoofs occasionally. It is a disease that is induced by wet ground, and may be carried from one field to another by the sheep.

A sheep may not produce wool to the value of $1, but it may pay well as mutton. One early lamb is worth more than the wool of three or four sheep. The mutton breeds of sheep require more care than the small and active wool breeds, but they give a larger profit.

The horse that is given rest regularly on Sunday will soon learn to know when his holiday arrives, and will appreciate it. Habit is a matter of education. Animals learn the exact time for receiving meals, and will appear at regular hours if they have been fed regularly.

The damage done by moles may be great, but the damage done by the insects destroyed by moles may be greater. No creature should be condemned as injurious until it is known as a fact that it does not confer correspondingly as great benefits as the supposed injury inflicted.

When a peach tree appears nearly dead it may be saved by cutting away all the dead wood. A single sprout from any part of the tree may grow and make a new top in two or three years. No tree can surpass the peach in the amount of trimming and pruning it will sustain, and no tree is benefited by the use of the knife more than the peach.

Concentrated foods should never be fed exclusively. To keep stock on grain, with but little grass or hay, will result in deranging the digestive organs. This applies also to the hog, which sometimes is kept exclusively on grain. A hog that is given a variety will fatten more rapidly than one fed wholly on corn, as its digestion will be more perfect.

Wood is more largely used for burning during summer in some sections than coal, as summer fires are only for quick work, and a large amount of wood ashes will be secured. Ashes are often wasted or injured by exposure. The place for ashes is around the trees, where they may be thrown when a lot accumulates. Even coal ashes are beneficial on sandy soils.

Before storing fruit, potatoes or other crops in the cellar, have it thoroughly cleaned, whitewashed and put in the best condition, as the temperature, moisture and condition of the cellar largely affect the keeping qualities of the articles. An excellent and cheap mode of disinfecting the cellar is to close it tightly and burn sulphur therein, ventilating the cellar well after using the sulphur.

If the crops have matured it is no reason why the weeds should be allowed to grow. The cultivator will do as good service in destroying weeds now as at any other time. The dangerous weeds are the few straggling ones that are overlooked and allowed to seed. The late weeds are more damaging than those that appear early, as the early weeds are kept down while the crop is being cultivated, the late ones being untouched because no crop requires working.

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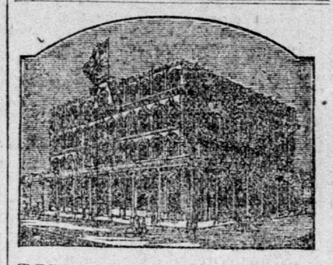
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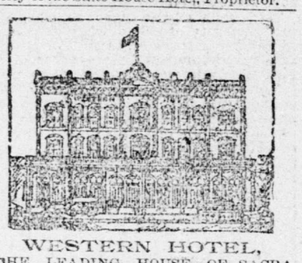
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Capay Valley is situated in Yolo County, about 90 miles by rail from San Francisco, and is traversed in its entire length by the Woodland, Capay and Clear Lake Railroad, the distance from Esparto to Rumsey being 21 miles.

The Capay Valley Land Company is offering the most fertile lands in this beautiful valley upon terms which enable the purchaser to pay for the land out of its own product, viz: Interest only for five years at 7 per cent. The only condition imposed is, that a reasonable proportion of the land purchased shall be planted to fruit trees or vines. Land may be bought without this condition on payment of 20 per cent. cash and remaining 80 per cent. at the end of five years, with interest annually in advance, at 7 per cent. The various tracts owned by the Capay Valley Land Company have been subdivided into 10 and 20-acre lots, which are for sale at prices varying from $50 to $150 per acre. Similar unimproved land in Vaca Valley has recently been sold at $400 and $500 per acre.

These Capay Valley lands are under the most favorable climatic conditions for the prosecution of profitable fruit growing, and the locality has proved itself to be one of the earliest in the State. The grape crop of 1890 from the company's vineyard at Cashmere was picked, dried and shipped to Chicago and Philadelphia before the Fresno County grapes were ripe.

The railroad passes through all of the tracts owned by the Capay Valley Land Company, thus insuring excellent shipping facilities; and land may now be purchased in the immediate proximity of either of the following stations: Capay, Cadenasso, Surrey, Guinda, Sauterne, Cashmere or Rumsey.

At many of these places fine orchards of the choicest and earliest varieties of peaches and apricots may already be seen, and during the coming season considerable additional acreage will be planted out. One of the recent sales made by the company was that of the Tancred Tract, containing 600 acres, to a colony association. This tract has been subdivided into forty holdings, all of which will be planted to fruit trees this season.

The fine orchards on the Guinda Tract, where 400 acres have been sold, are especially worthy of mention, and it is a significant fact that several of the blocks are owned by successful Vaca Valley fruit-growers, who expect to make their earliest shipments from here.

Too much stress cannot be laid upon the great advantage to the fruit-grower of being in early locality. In most cases it makes the difference between success and failure. The industrious orchardist of Capay Valley may rest assured that he will derive all the benefits gained by the first fruit shipments of the season, and that 20 acres of this rich land, when the trees are in bearing, will yield a handsome and assured income.

The Capay Valley Land Company has an agent residing in the valley, whose duty it is to show the various tracts to land seekers.

Four townsites have been laid out in different points in the valley, viz: Esparto, Cadenasso, Guinda and Rumsey. Town lots may now be purchased at reasonable prices and on easy terms.

The enterprising and flourishing town of Esparto is situated at the lower end of the valley, and $125,000 worth of substantial buildings have already been erected, including a fine four-story brick hotel, two large brick blocks and waterworks, with pipes laid in the streets, besides extensive warehouses and numerous residences. The town has a postoffice, school-house and a weekly paper, and the fine railroad depot contains telegraph and express offices.

Postoffices have alse been established at Guinda and Rumsey. This latter place, situated at the head of the valley, is the present terminus of the railroad. The comfortable little hotel makes excellent quarters for hunters as well as land-seekers.

The advantages enjoyed by the settler in Capay Valley may be thus concisely summed up:

A soil of great fertility, yielding bountifully of every crop.

A soil and climate which will ripen all kinds of fruit and vegetables earlier than anywhere else in the State.

A climate perfectly adapted to the curing of raisins and drying of fruit without the aid of artificial evaporators.

A location that is central and close to markets. Railroad communication which enables shipments to be made quickly and cheaply. Lands which are sold cheaper and on better terms than anywhere else in the State.

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A RARE OPPORTUNITY
Good Agricultural Land for $10 to $20 per Acre.
The Pacific Improvement Company has recently purchased twelve thousand acres of land in the heart of Tehama County, for the purpose of promoting subdivision and settlement. This land embraces lands from first-class Sacramento Valley agricultural land, to land of fair average quality, and is offered at from $10 to $20 per acre, in subdivisions of 40, 80, 120, 160 and 320 acres.
The terms upon which these lands are offered are especially attractive. They will be sold in subdivisions, as above indicated, by the payment of interest only for three years, at which time the purchaser can begin the payment of principal by paying the first of five equal annual installments. Thus no part of the principal is to be paid for three years, and then the purchaser is to have five years in which to pay five equal annual installments, with interest at the rate of 7 per cent. per annum, making payments extending over a period of eight years. Intending purchasers are assured that this is an opportunity to purchase land of fair average quality at $10 per acre, and good agricultural land at $20 an acre, with other grades of land at prices to correspond between these figures.
The assertion is frequently made that good lands, suitable for general farming, and especially adapted for fruit-growing, cannot be had in California for less than from $60 to $100 an acre. An examination of the land subject of this advertisement will prove to home-seekers that this is an opportunity for the purchase of good agricultural land at $20 an acre, and for qualities grading down to fair agricultural land at $10 an acre, on terms of payment which should make the disposition of these lands to actual settlers a result easy of accomplishment.
The primary object of the purchase of this body of land was the breaking up of a large holding for the purpose of promoting its settlement in smaller quantities and its devotion to diligent husbandry.
For further particulars, call upon or address WM. H. MILLS, Land Agent of the C. P. R. R., Fourth and Townsend streets, San Francisco, Cal.

Undertakers.

JOHN MILLER
(Successor to Fritz & Miller),
UNDERTAKING PARLORS,
905 K STREET (ODD FELOWS' TEMple). A complete stock of Undertaking Goods always on hand. EMBALMING A SPECIALTY. Telephone No. 186.

J. FRANK CLARK,
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1017-1019 Fourth St., Sacramento.
EMBALMING A SPECIALTY. GEORGE H CLARK, Funeral Director and County Coroner. Telephone No. 134.

W. J. KAVANAUGH, Undertaker,
No. 513 J St., bet. Fifth and Sixth.
ALWAYS ON HAND A LARGE ASSORTment of Metallic and Wooden Caskets. Burial Cases, Coffins and Shrouds furnished. Coffin orders will receive prompt attention on short notice and at the lowest rates. Office open day and night. Telephone No. 305.

NOTICE OF SALE OF IRRIGATION District Bonds.—The Board of Directors of Pomona Orange Belt Irrigation District will sell at the office of the board, in the City of Pomona, County of Los Angeles, State of California, at 10 o'clock A. M., on TUESDAY, the 15th day of September, 1891, eight bonds of said district, of the par value of five hundred (500) dollars each. Sealed proposals will be received by the board, at their said office, for the purchase of said bonds, till the day and hour above named. By order of the Board of Directors. FRANK P. FIREY, Secretary. au21-20t

Banking Houses.

CALIFORNIA STATE BANK AND SAFE DEPOSIT VAULTS
SACRAMENTO, CAL.
Draws Drafts on Principal Cities of the World.
SATURDAY HOURS, 10 A. M. TO 1 P. M.
OFFICERS:
President.....N. D. RIDEOUT
Vice-President.....FRED'K COX
Cashier.....A. ABBOTT
Assistant Cashier.....W. E. GERBER
DIRECTORS:
C. W. CLARK, JOS. STEFFENS, GEO. C. PERKINS, FRED'K COX, N. D. RIDEOUT, NORMAN RIDEOUT, W. E. GERBER.

SACRAMENTO BANK,
THE OLDEST SAVINGS BANK IN THE city, corner Fifth and J streets, Sacramento. Guaranteed capital, $500,000; paid up capital, gold coin, $300,000; loans on real estate in California, July 1, 1891, $3,106,408; term and ordinary deposits, July 1, 1891, $3,022,521. Term and ordinary deposits received. Dividends paid in January and July. Money loaned upon real estate only. Information furnished upon application to W. P. COLEMAN, President.
ED. R. HAMILTON, Cashier.

NATIONAL BANK OF D. O. MILLS & CO.
Sacramento, Cal.—Founded 1850.
Saturday hours.....10 A. M. to 1 P. M.
DIRECTORS AND SHAREHOLDERS.
D. O. MILLS.....1,538 Shares
EDGAR MILLS, President.....1,538 Shares
S. PRENTISS SMITH, Vice-Pres. 250 Shares
FRANK MILLER, Cashier..... 351 Shares
C. F. DILLMAN, Asst. Cashier. 125 Shares
Other persons own.....1,198 Shares
Capital and Surplus, $600,000.
Chrome Steel Safe Deposit Vault and Time Lock.

FARMERS' AND MECHANICS' SAVINGS BANK
Southwest corner Fourth and J Streets, Sacramento, Cal.
Guaranteed Capital.....$500,000
LOANS MADE ON REAL ESTATE. INterest paid semi-annually on Term and Ordinary Deposits.
B. U. STEINMAN.....President
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CROCKER-WOOLWORTH NATIONAL BANK,
322 Pine Street, San Francisco,
PAID UP CAPITAL, $1,000,000. SURPLUS, $250,000.
DIRECTORS:
CHARLES CROCKER...E. H. MILLER, JR.
R. C. WOOLWORTH.....President
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W. E. CROCKER.....Cashier

PEOPLE'S SAVINGS BANK
Of Sacramento.
DIVIDENDS FOR THE TERM ENDING June 30, 1891, are now payable. Rate per annum on term deposits, 5½ per cent., and on ordinary deposits, 4 per cent. Loans made on real estate only. All communications promptly answered.
WM. BECKMAN, President.
GEO. W. LORENZ, Cashier.

NOTICE OF ELECTION.

NOTICE IS HEREBY GIVEN THAT AN election will be held at the Riverside House, occupied by Carl Munger, on the 12TH DAY OF SEPTEMBER, 1891, commencing at 10 o'clock A. M. and closing at 6 o'clock P. M. of that day, for the election of three Trustees of the Reclamation District formed by the Board of Supervisors upon the petition of James McNasser and others in the County of Sacramento and State of California.
Attest: W. W. RHOADS, County Clerk.
By J. F. DOODY, Deputy Clerk. au10-1m

Business Cards.

H. F. ROOT. ALEX. NEILSON, J. DRISCOL.
ROOT, NEILSON & CO.,
UNION FOUNDRY—IRON AND BRASS Founders and Machinists, Front street, between N and O. Castings and Machinery of every description made to order.

A. MEISTER,
CARRIAGES, VICTORIAS, PHAETONS, Buggies and Spring and Fruit Wagons. 910, 912, 914 Ninth street, Sacramento.

GUTHRIE BROS.,
PRACTICAL PLUMBERS, STEAM AND Gas Fitting, Roofing and Jobbing. Terms reasonable. 127 J street.

S. CARLE,
SUCCESSOR TO CARLE & CROLY, CONtractor and Builder. Orders solicited and promptness guaranteed. Office and shop, 1124 Second street, between K and L.

JOHN D. SHEARER & SON,
ARTIFICIAL STONEWALK CONTRACTors. Latest designs and first-class work. Estimates furnished for residences, work or iron foundations. je16-tf

DR. MARY M. CRONEMILLER.
OFFICE HOURS: 8 TO 9 A. M., 1 TO 3 and 6 to 7 P. M. Office and residence, 507½ J street. au14-tf

DR. A. E. BRUNE,
PHYSICIAN AND SURGEON. OFFICE and residence, corner Eighth and J streets, Sacramento. Office hours—10 A. M. to 12 M., 2 to 4 and 7 to 8 P. M. au29-tf

DR. CHAS. MEALAND
HAS REMOVED TO HIS NEW RESIdence, No. 1217 O street, between Twelfth and Thirteenth. Office, 627 J street. se3-1m

Attorneys-at-Law.

WM. M. SIMS,
ATTORNEY AND COUNSELOR AT LAW, Lindley Building, rooms 5 and 6, 1009 Seventh street, cor. J, Sacramento, Cal. jel-tf

A. S. AUSTIN.
ATTORNEY AND COUNSELOR AT LAW. P. O. box, 528, Sacramento, Cal. Present address, Baldwin Hotel, San Francisco. a7-1m*

CHAUNCEY H. DUNN. S. SOLON HOLL.
HOLL & DUNN,
LAWYERS.—OFFICES, 920 FIFTH ST., Sacramento. Telephone No. 14.

CHARLES H. OATMAN.
ATTORNEY AND COUNSELOR-AT-LAW. OFFICE—420 J street, Sacramento, Cal. Notary Public.

A. L. HART,
ATTORNEY-AT-LAW.—OFFICE, SOUTHwest corner Fifth and J streets, Rooms 12, 13 and 14, Sut