

STOCK YARDS DAILY JOURNAL

A Daily Commercial Newspaper for Modern Farmers and Stockmen and An Advertising Medium That Reaches the Buyers

Vol. XV. No. 3

ST. JOSEPH, MO., THURSDAY, AUGUST 24, 1911

LAST EDITION.

TERMS: SINGLE COPY 5 CENTS PER YEAR \$4.00

FAT STEER TRADE DRAGS

SELLERS FORCED TO WORK HARD TO SUSTAIN YESTERDAY'S SCALE OF PRICES.

NOTHING PRIME ON OFFER

Western Proved Relatively Freer Sale Than Natives—Cows and Heifers Active—Break of 10 @ 15c in Stocker Stuff.

A slow but generally steady price level marked the clearance of a comparatively light crop of killing steers today. Only about twenty-five loads of steers of all kinds were offered at the greater portion of these were grass westerns.

There were hardly enough corn fed steers offered to test market conditions. The demand, however, did not exhibit any signs of urgency, buyers showing a disposition to kill time and few transactions were recorded during the early rounds, but when traders got down to a trading basis it was at prices in about the same notches as on the previous day.

Movement of bulk of the western offerings was also accomplished generally at steady prices. The estimate called for 1,200 head, the lightest run of the week and only 15,200 head were reported in sight at the five points. The week's movement to date at the five markets shows an increase of approximately 25,000 head over the first four days last week but almost that big a decrease compared with the corresponding period year ago.

Trade in fat steers during the week has been rather spotted. The good to choice corn fed grades, however, are closing fully steady with a weak ago. Medium and plain native grassers are somewhat lower. Western grass steers have been liberally offered and buyers have an enforced decline of 20 to 30c on the kinds selling below \$5.25, while the better kinds salable above that figure have held up well.

Dressed Beef and Shipping Steers.
No. Av. Price No. Av. Price
35.....1257.7 95.....1019.7 50
17.....1267.7 90.....1019.7 50
13.....1340.7 90.....1019.7 50
18.....1395.7 90.....1019.7 50
11.....1270.7 85.....1019.7 50
23.....1448.7 90.....1019.7 50

COWS, BULLS AND MIXED.
The receipts of butcher stuff for Thursday were comparatively light, with the quality only fair to good. Very little corn fed stock was on offer. No mixed yearling heifers and steers were available. The market was active and strong with spots 10c higher than the opening days of the week. Western grassers were very scarce. The demand is good for grass heifers selling in range of \$4.00 @ 4.50 and they are considerable higher than those of last week, some instances showing an advance of 25 cents.

The fact that country buyers have made competition strong on the medium class of bulls selling from \$3.40 @ 3.60 for feeding purposes is shown by the sharp advance of 10c to 15c and in cases 25c. All this class has found a ready outlet. Very few corn fed bulls have been marketed but the inquiry is good. Choice bulls are selling as high as \$5.00 @ 5.25, fair to good \$3.75 @ 4.50, common to medium and feeding bulls \$3.25 @ 3.65.

The calf market remains steady with the advance of yesterday's close. Top vealers \$7.25.

Heifers.
No. Av. Price No. Av. Price
3.....760.5 50.....680.4 25
1.....719.5 55.....640.4 25
2.....845.5 25.....600.4 25
2.....1029.5 19.....533.4 25
1.....860.5 50.....740.4 25
6.....620.5 50.....555.4 30
1.....410.4 75.....685.4 00
4.....740.4 50.....785.4 00
35Kan725.4 25.....810.3 75
1.....650.4 25.....659.3 75

Cows.
No. Av. Price No. Av. Price
1.....1160.5 40.....880.3 75
1.....1200.5 40.....890.3 50
1.....1240.4 85.....1160.3 50
1.....960.4 30.....910.3 50
2.....1005.4 75.....1014.3 50
1.....1500.4 75.....1170.3 50
1.....1010.4 65.....1030.3 40
1.....1230.4 50.....890.3 40
1.....1100.4 50.....942.3 40
1.....1100.4 50.....910.3 40
1.....1050.4 50.....990.3 40
1.....1010.4 50.....970.3 35
1.....1170.4 40.....840.3 25
2.....910.4 25.....1019.3 25
2.....1015.4 15.....989.3 10
16Kan1103.4 20.....890.3 00
1.....1100.4 00.....1060.3 00
2.....840.4 00.....910.3 00
1.....1120.4 00.....875.3 00
1.....1030.4 00.....902.3 00
3.....1030.3 95.....860.2 90
1.....1010.3 75.....805.2 90
1Kan870.3 75.....755.2 75
1.....1110.3 75.....870.2 75
1.....1140.3 75.....725.2 50

Bulls and Stags.
No. Av. Price No. Av. Price
1.....1280.3 75.....1180.3 70
2.....1105.3 75.....980.3 65
1.....1020.3 75.....1000.3 50

Veal Calves.
No. Av. Price No. Av. Price
3.....170.7 25.....222.6 50
3.....180.7 25.....270.6 50
1.....130.7 25.....135.6 50
3.....170.7 25.....116.6 25
3.....138.7 25.....320.6 25
3.....153.7 25.....120.6 00
3.....176.7 25.....105.6 00
1.....170.7 25.....100.6 00
2.....185.7 25.....223.6 75
3.....170.7 25.....116.6 50
3.....152.7 25.....210.6 00
1.....120.7 00.....240.4 50
1.....140.7 00.....282.4 50
5.....184.7 00.....320.3 50

STOCKERS AND FEEDERS.
With harvest season close at hand many sections of the corn belt, the country call for stock and feeding cattle the current week has dwindled to narrow dimensions and contrary to speculators' expectations, volume of outgoing movement has been the smallest for some time past, with the result that a big end of the week's buying is still in the pens with no immediate prospect of an outlet. Under these conditions buyers are more anxious to unload than to further increase their holdings and although today's fresh contingent was barely normal in proportion with the cattle receipts, salesmen were up against a pretty hard proposition in getting bids and had to offer inducements in the way of a 10 cent cut in values all along the line in order to stimulate interest among buying talent. Even at the discount buyers did not seem especially anxious to absorb the fresh offerings and clearance of the day's crop lacked the snap of previous sessions. No radical change was apparent in the market for stock heifers. Demand for such stuff has been good all week and the few odd ends and small lots on offer today found a ready outlet at current rates.

Stockers and Feeders.
No. Av. Price No. Av. Price
18.....927.5 00.....14.....725.4 35
3.....890.4 75.....756.4 30
1.....830.4 40.....840.4 25

Yearlings and Calves.
No. Av. Price No. Av. Price
1.....650.4 15.....584.3 50
3.....593.4 15.....500.4 00
4.....652.4 15.....410.3 75
1.....550.4 10.....400.3 00

Feeding Cows and Stock Heifers.
No. Av. Price No. Av. Price
3.....625.3 75.....890.3 50
3.....573.3 75.....550.3 50
1.....510.3 75.....855.3 40
7.....740.3 75.....700.3 35
1.....820.3 65.....745.3 35
1.....820.3 65.....860.3 30
2.....740.3 60.....950.3 20
2.....980.3 60.....1150.3 20

Feeding Bulls and Stags.
No. Av. Price No. Av. Price
1.....760.3 75.....770.3 60
2.....960.3 65.....590.3 60
2.....805.3 60.....730.3 50

RANGERS—NATIVE DIVISION.
Receipts of western range cattle were light in the aggregate, though comprising a fair share of the total arrivals. The big end of the supply was in steers, very few cows and heifers showing up. Some Kansas wintered steers, weighing 1,254 lbs., sold at \$5.75, the top for the day. Strictly choice wintered westerns would sell up to \$7.25 or higher. Some 900-lb. westerns sold at \$5 and common light "dogies" at \$4.00. Trade in western steers showed more activity than in the native division. Prices were quoted steady.

The limited supply of western cows and heifers cleared at strong rates.

Steers.
No. Av. Price No. Av. Price
102Kan1254.6 75 46Kan1024.4 60
21Kan1185.6 50 4Kan1095.4 60
40Kan1185.6 35 15Kan910.4 55
3Kan1130.6 00 23Kan1083.4 40
1Kan710.5 75 30West708.4 00
56Kan903.5 00 2Kan800.4 00

Packers' Cattle Purchases.
Hammond Packing Co..... 600
Swift & Co..... 290
Morris & Co..... 200
Total.....1,090

LIVE STOCK RECEIPTS.
Today's Receipts.
Cattle..... 37,000 1,046
Hogs..... 1,400 6,826
Sheep..... 5 999

Receipts from Jan. 1 to Date.
The following table shows the local receipts from January 1, 1911, and receipts for the corresponding time in 1910:

Live Stock in Sight.
The following shows the estimated receipts of cattle, hogs and sheep at the five principal western markets today and comparisons:

Cattle Hogs Sheep
Chicago..... 4,000 18,000 18,000
Kansas City..... 4,000 7,900 4,000
South Omaha..... 2,300 5,900 10,000
West St. Joseph..... 1,000 6,800 1,000
East St. Louis..... 3,200 8,900 3,500

Receipts by Cars.
The following shows the number of cars of stock handled today by railroads centering at the local yards today:

ST. JOSEPH HAY MARKET.
Local Quotations Corrected to Date by Local Dealers.

The following quotations are furnished daily by the St. Joseph Hay Receivers and Shippers association for the benefit of Stock Yards Daily Journal readers:

Other Livestock Markets.
CHICAGO.
CATTLE—Receipts, 4000. Market steady to strong, cows steady, feeders firm.
HOGS—Receipts, 18,000. Market steady to low. Top \$7.70, bulk \$7.20 @ 7.60.
SHEEP—Receipts, 18,000. Market steady.

KANSAS CITY.
KANSAS CITY, Mo., Aug. 24.—Special to The Journal: The Drovers' Telegram reports: Cattle—Receipts, 4000. Market steady with close yesterday, top \$7.30, cows and heifers steady, stockers uneven, veals steady.
HOGS—Receipts, 7000. Market 10c lower. Top \$7.40, bulk \$7.15 @ 7.50.
SHEEP—Receipts, 4000. Market steady to 10c lower, Utah lambs \$6.40.

SOUTH OMAHA.
SOUTH OMAHA, Neb., Aug. 24.—Special to The Journal: The Drovers' Telegram reports: Cattle—Receipts, 2304. Market slow, steady, top \$7.60, feeders dull and lower.

HOGS GO DOWN AGAIN

BUYERS IN CONTROL OF SITUATION AND FORCE FRESH BREAK OF 5 @ 10c.

CLOSED AT FULL DECLINE

Small Shipping Demand in Trade—Quality Shows a Slump—Tops Make \$7.50, a Nickel Under Wednesday.

Hogs continued on the down-sloping today, prices ranging 5 @ 10c lower than yesterday's average, with more sales at the maximum than minimum decline. A small shipping order was filled at the start at prices steady to 5c lower than yesterday's mean close but packers stuck for a 5 @ 10c cut and succeeded in putting up their droves at this reduction. Early trade had fair activity but toward the close slower pulse was noted and the late transactions, as a rule, were rated a dime under yesterday's average.

Shipping demand was responsible for an early top of \$7.50, packers securing few hogs costing above \$7.40. Common packing hogs sold down to \$7.00 but \$7.10 @ 7.20 took bulk of such offerings.

There was general complaint of the poor quality, only a few desirable medium and strong weight butchers being noted, while mixed droves carried quite a percentage of common grass stuff and full loads of coarse packing kinds were not lacking in the day's supply which was estimated at 5,700 head.

Prices ranged from \$7.00 @ 7.50, with the bulk selling at \$7.10 @ 7.40. The bulk yesterday sold at \$7.20 @ 7.50, a week ago at \$7.25 @ 7.50, a month ago at \$6.65 @ 6.85, a year ago at \$8.70 @ 9.15, two years ago at \$7.65 @ 7.80, three years ago at \$6.50 @ 6.65, and four years ago at \$5.75 @ 5.95.

Heavy and Mixed—100 lbs. and upward.
No. Av. Price No. Av. Price
57.....2.9 7.50 53.....2.94 7.15
69.....2.74 7.50 63.....2.72 7.15
65.....2.99 7.50 59.....2.94 7.15
60.....2.76 7.50 61.....2.74 7.15
65.....2.91 7.50 61.....2.94 7.15
74.....2.19 7.40 64.....2.17 7.15
64.....2.25 7.35 63.....2.24 7.15
79.....2.41 80.75 59.....2.38 7.15
60.....2.55 7.35 65.....2.53 7.15
65.....2.91 7.40 61.....2.89 7.15
64.....3.11 7.35 63.....2.97 7.15
68.....2.44 7.35 60.....2.42 7.15
68.....2.56 7.25 65.....2.56 7.15
68.....2.82 7.35 61.....2.80 7.15
60.....2.81 7.30 64.....2.79 7.15
60.....2.29 7.30 61.....2.28 7.15
20.....2.12 80.75 59.....2.10 7.15
65.....2.91 80.75 61.....2.89 7.15
78.....2.48 7.30 64.....2.50 7.15
75.....2.60 7.40 70.....2.57 7.15
75.....2.86 7.35 63.....2.84 7.15
70.....2.10 7.30 68.....2.08 7.15
72.....2.26 7.25 60.....2.25 7.15
60.....2.45 80.75 75.....2.43 7.15
65.....2.88 80.75 61.....2.86 7.15
72.....2.22 7.25 61.....2.21 7.15
72.....2.26 7.25 60.....2.25 7.15
60.....2.45 80.75 75.....2.43 7.15
65.....2.88 80.75 61.....2.86 7.15
72.....2.22 7.25 61.....2.21 7.15
72.....2.26 7.25 60.....2.25 7.15
60.....2.45 80.75 75.....2.43 7.15
65.....2.88 80.75 61.....2.86 7.15

Range of Hog Prices.
This Week Last Week
Monday.....\$7.35 @ 67.65 \$7.15 @ 67.55
Tuesday.....7.25 @ 67.65 7.15 @ 67.55
Wednesday.....7.10 @ 67.65 7.00 @ 67.50
Thursday.....7.10 @ 67.65 7.15 @ 67.50
Friday.....@.....7.00 @ 67.50
Saturday.....@.....7.25 @ 67.50

Packers' Hog Purchases.
Swift & Co..... 3,000
Morris & Co..... 1,734
Hammond Packing Co..... 1,149
Shippers..... 700
Total.....6,583

TEXAS DOES NOT INTEND TO LET EDUCATIONAL INTEREST LAG.
San Antonio, Texas, Aug. 24.—That Texas does not intend educational interest shall lag is emphasized by an appropriation of a sum aggregating approximately a million for the state university and a sum for the state agricultural schools. While the university is playing a most important part in educational affairs, it is generally recognized that the agricultural schools are doing much for the resources of the state by turning out young men and women thoroughly capable of taking care of themselves. As one representative put it when the appropriation was under consideration: "By giving our sons and daughters a thorough training in agriculture we are laying solidly the foundation for a broader and better manhood and womanhood."

TO INCREASE USE OF MUTTON.
Experiment Will Be Tried on Stamford U. Football Players.
San Francisco, Cal., Aug. 24.—Dr. D. W. Borbank, graduate manager of Stanford University student body, in researches for a more nutritious protein upon which to feed varsity football squads, has discovered that mutton contains a large proportion of muscle-building properties. He has purchased sixteen sheep and is fattening them. The student body will erect slaughter houses, declares Borbank, where sheep will be butchered and supplied to the training table. This year feeding of the varsity squad will be conducted, an experiment will be conducted as an experiment in the University of California team this fall mutton will be the main article of diet hereafter.

MISSOURI AGRICULTURAL COLLEGE TO HAVE NEW POULTRY DEPARTMENT.
Columbia, Mo., Aug. 24.—Beginning September 1, 1911, the Missouri College of Agriculture and Experiment Station is to have a regularly organized poultry department. The purpose of the new department is to investigate the various diseases and pests that affect farm fowls, to study the relative utility of different breeds of poultry for various localities of the state, to experiment with the problem of raising one of the leading industries and for market, besides giving regular courses of instruction in poultry husbandry to students.

The federal experiment station at Columbia with its well equipped demonstration rooms and laboratories offers exceptional advantages for carrying on the proposed line of work. The new three story veterinary building now nearing completion will supply unusual facilities for the investigation of poultry diseases and methods of combating them. Moreover, all the work of investigation and experimentation will be carried on where hundreds of students and thousands of farmers are coming in direct contact with it and learn the lessons of successful poultry growing at first hand.

INVITE VISITORS TO SOUTH.
Convention Called in Memphis to Boost Southern States.
Washington, D. C., Aug. 24.—Managing Director D. C. of the Southern Commercial Congress will leave Washington early in September direct for El Paso, Texas. He will meet there Col. D. C. Collier, director general of the Panama-California Exposition of San Diego. Mr. D. C. and Col. Collier will then travel rapidly over the states of the south in order to explain in large cities and before all leading commercial organizations the purpose of the All-South-Conference to be held in Memphis, October 9th. The itinerary so far arranged includes El Paso, San Antonio, Houston, Little Rock, Shreveport, Monroe, N. Orleans, Meridian, Birmingham, Montgomery, New Orleans, Savannah, Charleston, Raleigh, Chattanooga and Nashville.

WHEAT RECEIPTS.
Wheat receipts at the five principal western markets today and comparisons:

Wheat.
No. 2 red..... 88 1/2 @ 89 1/2
No. 3 red..... 86 @ 88 1/2
No. 2 hard..... 92 1/2 @ 97
No. 3 hard..... 90 @ 96

Corn.
No. 2 white..... 43 @ 43 1/2
No. 3 white..... 42 @ 42 1/2
No. 2 corn..... 82 @ 83
No. 3 corn..... 61 1/2 @ 62 1/2

Oats.
No. 2 white..... 43 @ 43 1/2
No. 2 white..... 42 @ 42 1/2
No. 2 corn..... 82 @ 83
No. 3 corn..... 61 1/2 @ 62 1/2

SHEEP RUN FALLS OFF

DIMINUTIVE SUPPLY TAKEN OVER AT STEADY TO FIRM BASIS OF VALUES.

TOP NOTCH STUFF LACKING

Two Loads of Idaho Lambs, the Extent of Western Marketing, Sold at \$6.25—Few Sheep Offered.

Flock masters in the northwestern and western range country have evidently generally met the severe fluctuations in prices for lambs during the current week and are holding back supplies until the market takes on a more favorable aspect, with the result that supplies locally and at a regular patron of this market, disposed of a car of hogs here yesterday.

Champion Cattle Fattener best. R. W. Wheeler, of Osborn, Mo., accompanied a car of hogs to the local market yesterday. D. R. Martin, of Braley, Mo., was here Wednesday with a two-car consignment of cattle.

Best beds in the city, 50 cents per night. Transit House. H. M. McLarny, of Hempe, Mo., was on Wednesday's market with a car of hogs here today.

Walters & Co., extensive shippers of Rockport, Mo., sent in a car of hogs for Wednesday's market. Try our Sunday diners. Best ever, 35 cents. Transit House.

H. M. McLarny, of Hempe, Mo., was on Wednesday's market with a car of hogs here today. E. A. Kent, of Sparks, Kan., was on today's market with a consignment of hogs.

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ITEMS IN BRIEF.

ORGANIZED MOVEMENT TO ENCOURAGE MORE EXTENSIVE GRAIN RAISING IN KANSAS.

ACREAGE TO BE ENLARGED

Farmers of Short Grass Section Getting Ready to Put Much Pasture Land in Wheat This Fall.

The "Million Bushel in Gray" club of Cimarron, Kan., is determined to see that a million bushels of wheat is raised in Gray county.

Of those in the club who will furnish the seed wheat there are two groups. First those who make their own individual contracts with farmers, in their own way, and as they please. Second there is a "pool" and into this pool anybody with small amounts can throw money, for instance in sums of 25 or 100 dollars. In the case of this pool the seed wheat will be put on a basis of one-fifth of the crop delivered, according to present plans. The seed wheat will be advanced as needed to those who will not grow it, and in good shape. No interest will be charged on the money, only one-fifth of the crop delivered. All that will be required is a contract stipulating these things.

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Wise feeders use Exello Feeds.
T. E. Harper, of Veleit, Kan., was here today with a car of hogs that sold well.

L. C. Solt, of Barnes, Kan., increased today's cattle receipts with one car.
Prices right to feed right. Champion Feed Co., Tarkio, Mo.
T. Baldwin, of Osborne, Kan., was on today's market with a consignment of hogs.

D. L. Simpson, of Cawker, Kan., was here today with a car of hogs.
It is the Champion Feed.
C. O. Hale, of Sprague, Neb., had a car of hogs on sale today.

J. A. Potter, of Willis, Kan., disposed of a car of hogs here today.
There is a profit in feeding Exello Feeds.
T. J. Thornton, of American Falls, Idaho, sent in two cars of lambs for today's market.

PACKERS' SHEEP PURCHASES.
Swift & Co..... 792
Morris & Co..... 105
Total.....897

ST. JOSEPH CASH GRAIN MARKET.
Today's cash values: Receipts: wheat, 4 cars; corn, 11 cars; oats, 0 cars.

WHEAT.
No. 2 red..... 88 1/2 @ 89 1/2
No. 3 red..... 86 @ 88 1/2
No. 2 hard..... 92 1/2 @ 97
No. 3 hard..... 90 @ 96

CORN.
No. 2 white..... 43 @ 43 1/2
No. 3 white..... 42 @ 42 1/2
No. 2 corn..... 82 @ 83
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OATS.
No. 2 white..... 43 @ 43 1/2
No. 2 white..... 42 @ 42 1/2
No. 2 corn..... 82 @ 83
No. 3 corn..... 61 1/2 @ 62 1/2

GRAIN AND PROVISIONS.
The following Chicago board of trade quotations are furnished by T. P. Gordon, 1005-1008 New Corby-Forshee Building, St. Joseph, Mo.

WHEAT.
Sept..... 90 1/2 @ 90 1/2
Dec..... 90 1/2 @ 90 1/2

CORN.
Sept..... 64 1/2 @ 64 1/2
Dec..... 63 1/2 @ 63 1/2

OATS.
Sept..... 42 @ 42
Dec..... 44 1/2 @ 44 1/2

PORK.
Sept..... 16.25 @ 16.45
Jan..... 16.37 @ 16.45

LARD.
Sept..... 9.15 @ 9.25
Jan..... 8.87 @ 8.90

RIBS.
Sept..... 8.85 @ 8.95
Jan..... 8.35 @ 8.40

SEVERAL NEW ENTRIES IN
Head of Shorthorns From North Dakota for Interstate Show.

The first entry of live stock for the Interstate Show ever received from North Dakota came in yesterday. W. W. Brown, proprietor of The Elms breeding farm at Amelia, N. D., made the entry which consists of a herd of twelve Shorthorn cattle. This is considered good evidence of the widespread interest in the forthcoming show is creating among live stock breeders of the country.

The Brown entry was only one of several received yesterday. Sidney Frost listed fourteen head of Chester White hogs, N. B. Freeman, of Kearney, sent in an entry covering twenty head of Poland China swine, and Wm. Clark, of Cummings, Kan., entered four mules.

The first entry in the pony class was also received yesterday. R. R. Rau entering the Krug park herd of twenty-five Shetlands.

TO GROW MORE

STOCK YARDS DAILY JOURNAL

City Office—Rooms 2 and 3, Rook Island Building, corner Sixth and Edmond streets.

The St. Joseph Journal Publishing Co., Publishers.

W. F. WARRICK, Editor and Manager.

Largest Outside Circulation of Any Paper Published in Buchanan County, Mo.

Entered at the Postoffice in St. Joseph, Mo., as Second Class Matter, September 3, 1897.

SUBSCRIPTION RATES: Daily, per year, \$4.00; Daily, six months, \$2.50; Daily, three months, \$1.50; Daily, one month, 50c; Tri-Weekly, per year, \$3.00; Semi-Weekly, per year, \$2.00; Weekly, per year, \$1.00.

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Do not send checks on country banks. Remit with postal order or draft payable to St. Joseph Journal Publishing Company. If you do not receive your paper regularly, notify this office at once, and if possible, so the matter may be rectified without delay.

Advertising Rates Furnished on Application.

Fifty per cent commission allowed postmasters, who are authorized to take subscriptions.

FRESH PORK DEMAND URGENT

The breeders' Gazette: A peculiar situation exists in pork trade. Packers could sell two pounds of pork loins where they are able to furnish one. Product that has to go through the curing process has been accumulating on their hands, while they cannot satisfy 50 per cent of the demand for fresh meat. Pork loins are so many prize packages and the retailer who gets half his orders considers himself lucky. Not only are loins scarce, but desirable stuff is abnormally so, but everything goes. Packers are encountering broad demand from country points for fresh pork which will naturally subside when cool weather comes and local hog slaughter is resumed. It is a semi-famine with no prospect for immediate relief. Packers permitted the hog market to have a sharp advance last week, but it did not bring out many more hogs, showing conclusively that the country is oversold.

CATTLE OUTLOOK BRIGHT.

Omaha Journal-Stockman: "There is a solid mine in the cattle business just now," said O. C. Engelking, a prosperous cattleman who was at the yards with a big bunch of range cattle from Careyhurst, Wyo. "I believe the cattle market will continue to be good for two or three years to come as there seems to be a shortage of cattle throughout the whole country. According to what I read, Texas, Mexico and Arizona and all other districts have less cattle on the ranges than they had two or three years ago, consequently it will take two or three summers before these herds will be brought up to their former numbers. Judging from the conditions in Wyoming I think you may expect a great demand for feeders in the near future and prices are likely to soar higher than they are at the present time. We have had a very good season in our part of the country and have had lots of water for our stock."

NOTHING REMARKABLE IN RISE.

One of the St. Joseph dailies is running a column of news clipped from its files of ten, twenty-five and fifty years ago and occasionally an item turns up in the column that is of interest. For instance one day this week it is mentioned that the price of sirloin steak, ten years ago, had taken an advance of four cents a pound and was then selling at twelve cents per pound. That looks cheap compared to the price prevailing for that commodity now but it will be remembered that conditions of the country then, financially, were vastly different than what they are today. The price of labor was considerably lower and farmers were getting cheap prices for their products. It costs a lot more to produce beef than it did ten years ago and consumers are better prepared to pay eighteen or twenty cents a pound for steak now than twelve cents at that time. When we consider the advance in land values, increased cost of feed stuffs and labor, together with the enlarged demand that the more prosperous times have brought about, the advance in meat prices during the past ten years is nothing remarkable. Who knows but what the coming ten years will witness a similar rise in meat prices to the consumer?

RAISING SWEET POTATOES.

Sweet potatoes are easily grown and always find ready sale at good prices, say 25 cents to 40 cents a peck. From 400 to 450 bushels can be grown to the acre, and the price is generally 75 cents to \$1 a bushel. Cuttings can be set out in July and will make potatoes that will keep better than the ones grown from early plants. Cuttings made a yard long and coiled up and set in the hills with only the tops sticking out can be planted as late as August and will make a host of small potatoes.



Daddy's Bedtime Story—The Indian's Story of the Morning Star

"T ONIGHT," began daddy, "you shall hear an Indian fairy story, the story of how the morning star came to be up in the sky. "This story was a great favorite with the little Indian children, who, night after night, would listen to it with shining eyes and open mouths as some clever story teller spun tale after tale to the little groups about the blazing campfires. "The Indians say that long ago there were two little orphans, a girl and a baby boy. The little girl brought up her baby brother. He was grateful for her care, and a more loving brother and sister it would have been hard to find. However, as the years passed Little Shell, as he was called, did not grow tall, like other Indian lads. It was long after other Indian youths of his age went out hunting before his sister would allow him to take his bow and arrows and go into the forest alone. He was so small that at first he brought in only tiny game, but he was so clever that soon he was the best hunter in the forest. "Their parents had left the two orphans a stream in which many fine beavers built their homes. One morning Little Shell found a giant coolly killing these little animals. Instead of going away quietly when told to do so, the giant fought Little Shell so fiercely that the lad had trouble in taking care of himself, but at last he whipped the giant, sending him limping away, never to trouble any one again. "But the evil giant in going cast a curious spell over Little Shell. Little Shell was no longer content to stay at home, but felt a longing to go traveling about all over the world, seeing all sorts of strange sights. Little Shell knew this was no life for his sister. He went home and told her he must leave her. "So be it, brother," she said. "Then I will await your return, where I can always watch over your wanderings. Far up in the eastern sky when the mornings are clear you will see me. I have always loved the sky and wished to live there. "So they parted, and the next morning a beautiful clear star shone far up in the sky and has shown there ever since. It is Little Morning Star, sister of Little Shell, whom the Indians sometimes call the Little Wild Man of the Mountain. And he has never come home, so the Indians tell their children, for is not Little Morning Star still to be seen waiting in the eastern heavens for the return of her roving brother? For the Indians believe that some day he will come back and then the brother and sister will shine together to the sky."

SURE SIGNS OF EYE STRAIN

Headache, Vertigo and Other Symptoms of That Ailment That Afflicts Many Persons.

Chief among the symptoms of eye strain are watering of the eye, a gluing together of the eyelids on awakening in the morning, headache, the position and character of which vary with each individual. It may be neuralgic or it may be deeply seated, as was the case with Wagner, the musician, who was complaining constantly of "the nerves of his eyes." The headache is often replaced by an inflammation of the eyelids, especially in young and healthy persons who also have a little conjunctivitis with a feeling of tension or fullness in the eyes which may become real pain of a dull aching character, the eyeballs being very tender on pressure. Sometimes there are vertigo and sickness, with dyspepsia, palpitation, and even difficulty in breathing. Sleeplessness is a very frequent symptom due in part to the excessive flow of blood to the brain and in part to the low tone of the whole nervous system. The symptoms of eye strain appear sooner in those who lead a confined and sedentary life, who follow occupations which need a constant use of the eyes in bad or unsuitable light, and in those who are debilitated from any cause. The symptoms appear later in those of coarser fiber, who pass much of their time in the open air or who follow occupations which do not need a prolonged use of the eyes for close work.—Lancet.

HAIR FOR SKIN GRAFTING

Applied in Chopped Form, It is Found to Be Good Substitute for Ordinary Cuticle.

Chopped hair has been successfully substituted for skin in skin grafting by the French surgeon, P. Carnot, who has applied his method in many cases. It is based on the fact that the cells of the hair and its roots are epidermic outgrowths and can easily be transformed into skin cells. The use of hair not only does away with the necessity of taking skin from other persons, which is a painful operation, but it is said to be an improvement as well, as it is strong and hardy, and being inured to a minimum of nutrition is able to thrive under unfavorable conditions, such as prevail where grafting is necessary. The manner of performing the operation is simple, a few hairs being pulled from the head of the patient or of a relative, and with the bulbous parts removed the freshest or newest parts are cut into small pieces so as to form a coarse powder. This powder is then strewn over the surface of the wound and a proper bandage applied. Within a week white spots appear on the surface, rapidly increasing in size. The spots extend and thicken and finally form a perfect new skin.—Popular Mechanics.

SPIDERS THAT CHANGE HUE

Chameleon-Like Insects Take Color of Leaves and Flowers to Catch Prey.

Every traveler that returns from tropical regions has extraordinary stories to tell of the strange mimicry of leaves and flowers by insects. Sometimes the purpose of the imitation seems to be concealment and sometimes the laying of a snare to catch other insects. A curious instance of this was noticed on the Gold coast of Africa by a member of a British scientific expedition when

he stopped to examine a singular looking white flower with a blue center. He found, to his astonishment, that it was not a flower at all, but a spider's web, and that the supposed light blue heart of the flower was the spider itself lying in wait for its prey. The legs of the cunning spider, yellow mottled with brown, were extended in such a way as to resemble the divisions between the petals of the flower. The web itself, very delicately woven into a rosette pattern, with white, and three threads that suspended it from the bushes were so fine as to be almost invisible. The whole thing had the appearance of being suspended in the air upon a stem concealed beneath. When the scientist knocked the spider from its perch into a white gauze net his surprise was increased upon seeing his captive instantly turn from blue to white. Its former mimicry had been practiced as a snare; now it was playing a similar game for the sake of concealment. But the end of the performance was not yet reached. When the investigator shook his captive its body again changed color, becoming this time of a dull greenish-brown. Later he captured another larger specimen of the same species of spider, whose flower web resembled an orchid. This spider exhibited the same remarkable power of changing its color.—Harper's Weekly.

TRAPS ALWAYS MEAN MICE

How Window Display of Neighboring Hardware Dealer Frightened Away the Prospective Tenant.

"It's the mice," said the woman who had returned from an inspection of the renting agent's choicest flats. "The place must be fairly alive with them. I never could stand mice." In vain did the agent protest that mice could not be bred to live in such immaculate apartments as his. The woman cut short his protestations with a sweetly incredulous smile. "Don't tell me that," she said. "If the neighborhood isn't alive with them, why does the hardware dealer on the corner keep all those mouse-traps in the window? That is an un-failing sign. I have lived in flats for twenty years, and have learned that if the stores in a neighborhood make a big display of mouse-traps the flats provide the mice for them to catch. So often have I had that lesson hammered home that I study the mouse-trap situation before signing a lease." "Maybe that is the way those twenty-odd other women who scorned my flats on account of mice found out they were there," mused the agent. Then, before showing the flats again he persuaded the dealer to remove his mouse-traps to a less conspicuous place.

Fabric From Stone.

The Russians are manufacturing a fabric from the fiber of a filamentous stone from the Siberian mines which is said to be of so durable a nature that it is practically indestructible, says Tit-Bits. The material is soft to the touch and pliable in the extreme, and when soiled has only to be placed in a fire to be made absolutely clean.

Concrete Floors for Ships.

Concrete floors were tried in a number of wooden vessels carrying ore and coal on the Great Lakes as a substitute for wooden floors, which suffer severely from the clamshell bucket. The concrete floors are said to stand the wear well.

HERE IS LEARNED GENDARME

M. Vauthier, in the French Service, Has Gained Much Fame as an Archivist.

M. Vauthier is a gendarme attached to the Givet brigade in the Ardennes. He has done his military service in Algeria, says the Paris correspondent of the London Telegraph, and has been in the Republican Guard, and he got himself appointed to Givet in order that he might have more opportunity of prosecuting his historical researches in his native district, as that branch of study has been rather neglected in the Ardennes.

For M. Vauthier is no ordinary gendarme. He is an enthusiastic archivist, and his zeal and merit have been duly recognized, not only by the ministry of public education, but by the czar, while he has been warmly complimented by several embassies for notes which he has been able to furnish to them.

His researches in the Ardennes have chiefly borne on the periods of the revolution, the empire, and the restoration, and, among many other matters, on the depot of English prisoners of war established at Givet by Napoleon, and on the Russian occupation of that district after 1815.

M. Vauthier will soon be retiring on a pension, and then he will be able to devote all his time to his favorite pursuit. "I have," he says, "always had a hobby for hunting for documents, though it is often more trying than hunting for thieves."

WOULD SAVE SWISS SCENERY

League Asks the Government Not to Grant Concessions for Any More Alpine Railways.

The Swiss Scenery Preservation society has presented to the government a memorial urgently calling upon it not to grant concessions for any more Alpine railways. Of late a strong feeling has arisen among the more thoughtful and intelligent Swiss that their country has already been sufficiently exploited. Many beautiful passes and minor summits have been disfigured by overhead electric railways or besmudged by smoking engines, yet concessions for fresh mountain railways do not cease to be demanded. Quite recently as many as fourteen were before the government at one time.

What has now aroused the Swiss Scenery Preservation society to energetic protest is the demand recently addressed to the government for a concession for a cogwheel line from Gilon, via Brochet, to Souchaux, with a branch line from Brochet to Gaux. This proposal they combat on the ground that another cogwheel line already exists in the neighborhood (Gilon-Rochers de Naye); that the new line would hopelessly disfigure a beautiful piece of Alpine scenery, and that it is not justified by the circumstances of the surrounding district.

London Through the Ages.

It is proposed to establish in the British metropolis a museum to be devoted to the exhibition of relics pertaining to the history of London from the earliest times of its occupation by man. These relics run back much farther than most readers are aware. The city that Julius Caesar found occupied a site which had been inhabited for unnumbered thousands of years. It is now known that during Paleolithic and Neolithic times—the two great divisions of the stone age—man dwelt on the site of London, but it first became the settlement of a community at the opening of the historic age, when it was a stronghold of the Celts. The remains of its Roman period are the finest of the kind in Great Britain. The Anglo-Saxon and Danish periods are also finely represented, and even later periods, such as the Tudor, furnish relics that have been buried by that strange process of superincumbent growth which makes the soil under a great city resemble the fossiliferous strata of geology.—Youth's Companion.

Big Game.

Larry Covington of the Philadelphia Evening Times, was in the city, says the New York Morning Telegraph. While in a Broadway cafe Mr. Covington was telling of a trip he once took to Savannah, Ga., with some friends.

"We decided to go out to Mrs. Bannon's fish lodge for supper," he said. "We chartered an old sea-going hack driven by a negro. The driver was a knowing old fellow and pointed out to us all the places of interest along the route."

"As we were nearing Mrs. Bannon's place, which is six miles from Savannah, a squirrel appeared in the road. "George," I said, after we had all noticed the squirrel, "do you have any big game around here?" "Yes, indeed, sah," replied the negro. "We has baseball."

Blondes in Philadelphia Have Just

three times as many chances to be married as have brunettes, according to the records kept at the license bureau. During the last year the clerks have kept careful tab on the complexion of women applicants for licenses and Robert E. Ferguson, chief clerk, announced that in 16,000 of 17,000 cases where marriage licenses had been issued, the brides had light hair. The clerks in the divorce courts here now have decided to keep a similar record to ascertain whether blondes or brunettes are the more peaceable.

Attractive August Specials

Main Floor Annex

75c BLEACHED SHEETS, 65c—24 dozen hemmed bleached sheets, size 81x90 inches; heavy; wear well; quality worth 75c, special—65c

12 1-2c PILLOW CASES, 10c—50 dozen hemmed bleached pillow cases, in medium grade goods; worth 12 1-2c, special, each—10c

White Bed Spreads

Satin, Dimity and Crocheted, Scalloped, Cut Corners, Fringed and Hemmed—at special reduced prices for this sale.

HEMMED CROCHETED SPREADS— Full 11-4 size— Worth \$5.00 \$1.20 \$1.50 \$1.75 \$1.98 Sale Price 75c 98c \$1.25 \$1.50 \$1.69

11-4 HEMMED SATIN SPREADS, worth \$2.25, special, each— \$2.00

FRINGED CROCHETED SPREADS— Cut corners; size 11-4— Worth \$1.50 \$1.75 \$2.00 Sale Price, each \$1.19 \$1.50 \$1.75

11-4 FRINGED SATIN SPREADS, cut corners; worth \$4. Sale price, each— \$3.50

SCALLOPED BED SPREADS—Size 13-4, cut corners—

Scalloped Dimity Spreads, worth \$2.50, for— \$2.25

Scalloped Satin Spreads, worth \$4.00, for— \$3.65

Scalloped Satin Spreads, worth \$4.75, for— \$4.25

SPREADS FOR SINGLE BEDS—Size 10-4, several different grades and neat attractive patterns, all specially reduced for this sale.

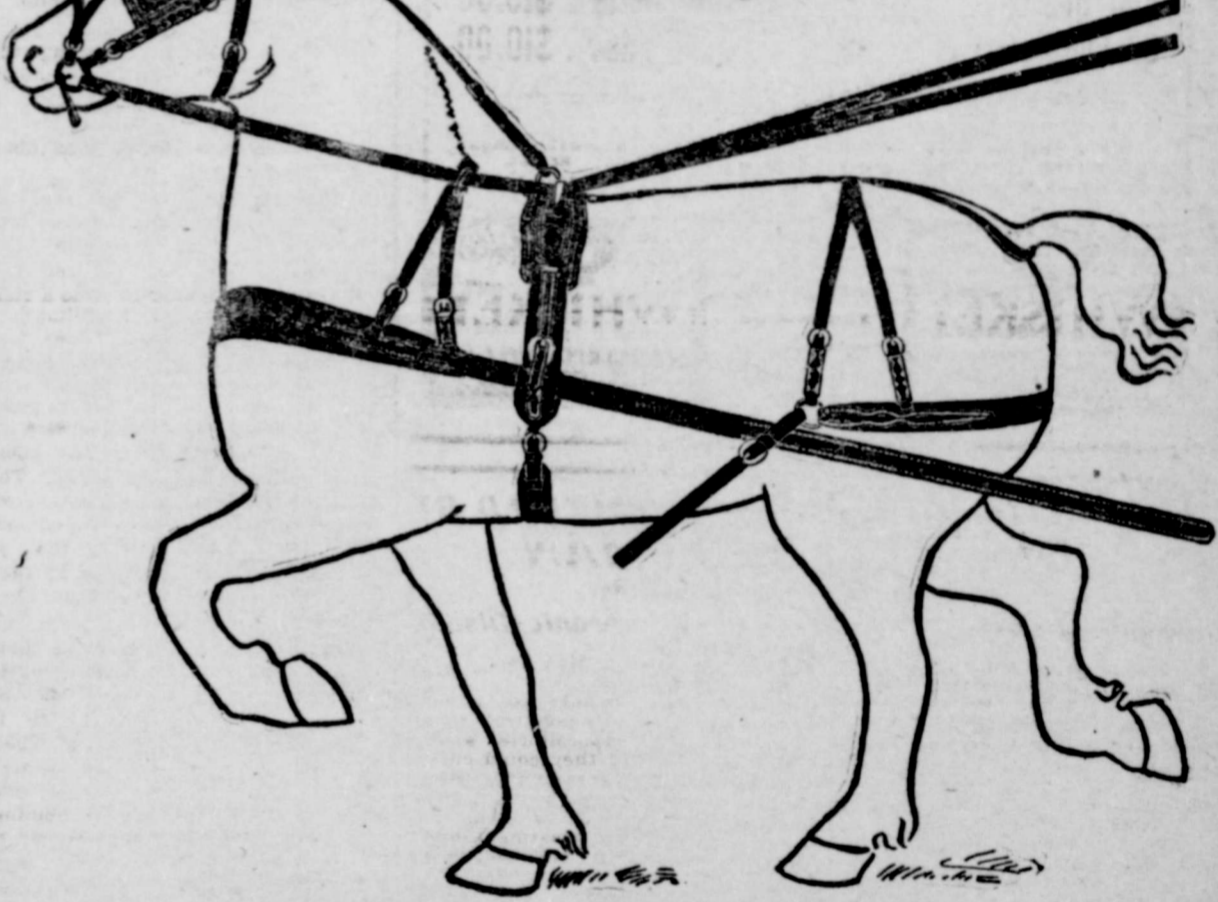
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We Will Sell You This \$22 Harness for \$16.40



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SINGLE STRAP SINGLE BUGGY HARNESS—NO. 30.

BRIDLES, 3-4-inch, box loop cheeks, overcheck with noseband, round winker stay, layer on crown, patent leather blind. LINES, 1x1 1/2-inch, spring billets. BREAST COLLAR, 3 1/4 inch, V-shaped, 1 3/8-inch, single strap traces attached, 1-4-inch forked neck straps with line rings, box loop buckle tugs, scalloped points. BREECING, 1 3/4 inch, 1x1 5/8-inch, scalloped, doubled and stitched turnback with crupper sewed on, hip straps 3-4-inch, forked, side straps 1-inch, box loop buckle tugs, scalloped layer.

BELLY BANDS, Swelled, "Griffith," doubled and stitched, with 1-inch wrap strap. SHAFT TUGS, 1-inch, raised, box loops. SADDLE, 3 1/2 inch, single strap skirts, wide swelled patent leather, jockey and housing, beaded edge, swing bracer. TRIMMINGS, Nickel or brass swedge, or imitation rubber. HITCH STRAPS, 5-8-inch. PRICE, Per Set—\$16.40

Your Money Returned to You if Harness Does Not Suit You.

H. & M. Harness Shop

OUR CATALOGUE FREE. STOCK YARDS, ST. JOSEPH, MO.

DREAMS HENS ARE STOLEN

Man Also Sees Apparition of Thief, He Tells Police.

New York, Aug. 23.—Hugh Moriarity of Glen Ridge, N. J., is trying to locate a tall negro, dressed in a suit of light homespun and wearing a chauffeur's black leather cap, who he saw distinctly in his dreams, enter his chicken coop. Moriarity, before retiring, ate a Welsh rarebit and a slice of watermelon. He awoke just at daylight and went out to the chicken coop, expecting to find the intruder there. He didn't, but he discovered that a thief had been there and that twenty of his choice pullets were missing. Moriarity figures it out that as a portion of his dream came true, it

must all be true, and he has given a description of the supposed thief to the police.

PRIZE FOR EVERY NEW BABY

Banker Offers \$1 on Condition That Parents Deposit Like Amount.

Arkadelphia, Ark., Aug. 23.—John N. Stuart, for years connected with various banking institutions in this section, has started a crusade against race suicide in Clark county by offering to open an account of \$1 for each baby born in the county within the next twelve months. Stuart is now the cashier of the Merchants and Planters' bank, which was opened last week. The offer requires that the parents of the infant deposit \$1 to the account of the child at the same

time the bank gives \$1. It is supposed that the parent will let the money remain in the bank until the child is of sufficient age to add thereto. Several times already the bank has been called upon to pay up its portion of the offer.

Butter from fresh and properly ripened cream not over one day old keeps better than does butter made from sweet cream.

Tobacco Habit Banished

DR. ELDERS' TOBACCO HOB BANISHES all forms of Tobacco Habit in 72 to 120 hours. A positive, quick and permanent relief. Easy to take. No craving for Tobacco after the first dose. One to three boxes for all ordinary cases. We guarantee results in every case or refund money. Send for our free booklet, giving full information. ELDERS' BANITARIUM, 723 Main St., St. Joseph, Mo.

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J.C. HEDENBERG Abstract of Title of the City of St. Joseph and Buchanan County

"TRUNKS, BAGS, ETC." WE make the best of goods at the lowest prices.

SHEARED PUPPY'S HOT COAT

Story About William B. McKinley That Reveals the Wealthy Congressman's Kindly Heart.

Although William B. McKinley of Illinois is almost the wealthiest member in congress, he is one of the quietest and most unassuming of men.

"What are you doing?" I asked. "I'm getting the hot coat off this poor little pup. He's in misery," answered the congressman.

IT WAS THE PROPERTY LIME

Bartender Admits It Was Filled With Lemon Juice for Each Gin Rickey.

The consumer of the gin rickey, who knew all there was to know about gin rickies, detected something wrong about the taste of the one he was drinking.

Still, there was something wrong. After taking two or three additional sips he decided to speak about it to the bartender.

"Isn't there lemon juice in this rickey?" he inquired.

The bartender realized that before him was one who could not be bluff. "There is," he confessed, shamefacedly.

Some Fine Old Madeira. An interesting fact that came to our notice through Livingston Thompson of St. Louis in connection with a case of Madeira wine which, on the occasion of the birth of the young Thompson, was presented by the firm of E. La Montagne's Sons to his father.

It was the understanding that this case was not to be opened until Mr. Thompson should reach his twenty-first year, and until that time it did so remain in his possession.

What True Education Is Rev. Charles M. Sheldon's idea of the Right Development of the Human Mind.

Hived Bees With Bare Hands. A bet, a position and a swarm of bees were won at the same time a few days ago by G. L. Stone of San Francisco.

Ade Kept His Promise. W. H. Hershman of Noblesville, superintendent of the Kentland school during George Ade's high school course there, has been renewing old acquaintances at Delphi.

Sheep Flocks Diminishing. Sheep flocks need such extensive ranges in order to get enough to eat, sheep flocks are uniformly diminishing in all countries.

"No, sir," Ade replied. "Why not, George?" "Because," said Ade, "what I entered Purdue I promised my father that I'd never do anything there that I didn't do at home."

KANSAS STATE FAIR TOPEKA

SEPTEMBER 11-12-13-14-15, 1911 EVERY DAY A BIG DAY

Large Agricultural Department. Hundreds of Horses. Cattle, Swine & Sheep. Acres of Red Machinery. Evening Entertainment Every Night.

\$17.50 Denver, Pueblo, Colorado Springs and Return Tickets on sale daily till September 30.

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FARM HOMES! MUST SELL. 320 acres 50 miles south Kansas City on main line K. C. & S. R.; 2 miles good little town with good college.

As investment now will soon double. Real bargain! Red Willow Co., Nebraska lands, half value, best of terms.

ST. JOSEPH HAY & FEED CO. Hay, Grain and Mill Feed. 1004 Corby-Forsce Building.

KANSAS CITY HAY AND GRAIN. The following quotations are furnished daily by the Kansas City Sellers and Shippers Association.

KANSAS CITY HAY AND FEED. KANSAS CITY is your best market this year, being the natural distributing point for hay.

Timothy—Choice, \$17.50@18; No. 1, \$16.00@17.00; No. 2, \$12.50@15.50; No. 3, \$9@12.

WE WANT HAY Write us what you have. Will inspect and buy on your track or handle on a commission.

Lowland prairie—No. 1, \$8.00@9.00; No. 2, \$5.50@7.50.

Wanted, Hay Write us what you have to offer.

ALFALFA—Choice, \$15.50@16; No. 1, \$14.00@15.00; No. 2, \$11.00@14; No. 3, \$7@11.

KANSAS CITY HAY AND FEED. HAY WANTED! Choice and No. 1 Timothy Hay.

Great Western Hay Co. WHOLESALE AND COMMISSION TIMOTHY, PRAIRIE AND ALFALFA.

Wanted, Hay Write us what you have to offer.

Advertise it in The Journal

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Guaranteed Cure—Piles, Nervous and Chronic Diseases

St. Joseph, Mo., Oct. 17, 1910. To whom it may concern: This is to certify that I have had the piles for the past ten years and have tried almost every remedy that I could get up to the first of this year.

St. Joseph, Mo., March 2, 1909. To whom it may concern: This is to certify that I was afflicted with a very severe case of constipation and piles.

St. Joseph, Mo., March 20, 1907. To whom it may concern: After suffering for 15 years with blind and protruding piles I commenced treating with Dr. M. L. Kullman on Oct. 3, 1903.

St. Joseph, Mo., March 20, 1907. To whom it may concern: After suffering for 15 years with blind and protruding piles I commenced treating with Dr. M. L. Kullman on Oct. 3, 1903.

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We Are in the Market Every day for Cattle, Hogs and Sheep.

WE are especially bidding for Range Cattle and Sheep, both for slaughter and feeding.

Our packers furnish a daily market for all kinds of cattle, ranging from Cannors to Export Cattle.

A FEW SPECIALTIES SUPREME HAMS SUPREME BACON SUPREME LARD SUPREME SAUSAGE SUPREME DRIED BEEF and LION BRAND CANNED MEATS

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MORRIS & COMPANY CHICAGO ST. JOSEPH KANSAS CITY ST. LOUIS

Hot Weather Hog Feed

Don't waste your hogs' time filling them up with coarse, bulky, indigestible feed. In summer-time they need shade, pasture, plenty of pure water, a little corn and

Swift's Digester Tankage

Feed them half a pound a day and Watch Them Grow. For prices, free sample and complete information, address

Swift & Company Chicago Kansas City St. Louis St. Paul Omaha St. Joseph Ft. Worth Harrison Station, Newark, N. J.



MISTLETOE Sold by Hammond Packing Co. St. Joseph - Mo.

SHAROCK WHISKY DISTILLED FOR MEDICAL USE 10 YEARS OLD ABSOLUTELY PURE M. J. SHERIDAN, PROPRIETOR, ST. JOSEPH, MO. Importers and Dealers in WINES and LIQUORS Established 1878.

HOG RAISERS We take pleasure in informing our friends that Dr. F. E. Niles is now associated with the National Hog Cholera Serum Company and is now doing the scientific work for this company in the manufacturing of hog cholera serum. Dr. Niles was, for a period of years, in charge of the veterinary department of the Virginia Agricultural College and was also the state veterinarian. He has been in the government service for the last nine years and recently resigned an important position to take up this wonderful work. It was Dr. Niles' brother who made the first noted hog cholera serum test at Kansas City and he has since been in charge of the government experimental station at Ames, Ia. We are producing the best serum that can be used and are selling it at the very possible price. If we can serve our friends in any way connected with the anti-hog cholera serum business it will please us to do so. Mason S. Peters, Manager National Hog Cholera Serum Company, 309 Live Stock Exchange Bldg., Kansas City, Mo.

Kansas City Watchmaking School Reduced and profitable labor. Positions secured, money earned while studying. Send for free catalog. W. W. BREYER, Pres. 818 East 12th St., Kansas City, Mo.

An Advertisement in The Journal is a Business Getter

TREATMENT OF ORCHARDS

CULTIVATION AND GROUND FEEDING QUITE NECESSARY.

By J. C. Whitten, Professor of Horticulture, College of Agriculture, University of Missouri.

Apple orchards need cultivation just as do other crops, as corn or potatoes. The cultivation should be begun early in the spring, so as to warm and aerate the ground, stimulate the growth of roots, and let the spring rains penetrate to the subsoil where the water may be stored till the hot, dry months of summer. Clean and thorough cultivation of orchards would have been a great help in some orchards this year, and would have prevented much fruit from falling off on account of the extreme dryness.

The object of cultivation is not so much to keep weeds from growing as to break up and pulverize the surface layer of the soil and thus prevent the excessive evaporation of water. Various tools are used for the work. The plow is often satisfactory, and the cutaway disk or disk harrow may be used satisfactorily. The later part of the cultivation should be shallow so that too deep a layer of soil will not be dried out. A crust on the surface should always be broken up and a mulch of pulverized dry soil kept on top to hold the moisture.

Especially in a dry year like this one, cultivation will help a great deal to better success with apple orchards. The proper time to cease cultivation in autumn is a question frequently asked. Some growers set a definite date—say the first of August, after which cultivation is not to be recommended. It is claimed by some growers that cultivation after a given date will stimulate a late autumn growth and prevent the wood from properly maturing for winter.

Experiment seems to indicate that there is no fixed date upon which cultivation should cease, but that this should be governed by the condition of the trees, the weather and other conditions. There is no doubt that a late autumn growth which sometimes induces trees to open flower buds and wood buds that should have remained dormant until spring is very undesirable. It is probable, however, that ceasing cultivation too early may be as conducive to this undesirable condition of trees as is cultivating too late. It is also probable that proper cultivation at the right time may do much toward correcting this tendency toward late growth, which is sometimes introduced by unusual weather conditions.

When conditions for growth are favorable throughout the season, and trees are making abundant growth, it is no doubt best to cease cultivation in ample time for the wood to ripen, say the first of August.

If drouth comes on in late summer or early autumn, it may be best to keep the land in good till in order to conserve sufficient moisture to enable the trees to properly mature their tissues.

If trees are carrying a heavy crop of fruit during a dry autumn they may require cultivation until the crop is gathered. Cultivation at such a time, so far from promoting a late autumn growth, is usually necessary to enable the tree to mature its fruit without loss of vitality.

The more abundant the growth early in summer, the later will cultivation be necessary to properly mature this growth, provided the weather is dry and hot during late summer and early autumn, or if the trees are heavily loaded with fruit.

One of the most favorable conditions for abnormal autumn growth is to cease cultivation just before a dry, hot August. Under these circumstances the trees suffer from lack of moisture and enter their dormant state prematurely. If warm, rainy weather follows in autumn, the trees often begin spring like growth and activity at the time they should become dormant for winter.

The value of cultivation in the orchard has been extensively tested by the Missouri Agricultural Experiment Station and decisive results have been obtained. It is found that in those orchards which have been cultivated most, the growth of the young trees is the greatest. More important than this, however, is the fact that trees in a cultivated orchard make a more uniform growth than do those in one not cultivated. And it is decidedly true that trees in cultivated orchards are much less affected by drouth than are the others. The effects of a drouth may not always be seen in the orchard until a year or two years afterward.

However important clean cultivation is, it is not to be understood that the ground should be left bare. It is very desirable and almost essential to raise some kind of other crop in the orchard. Corn may be grown to some extent, although this may be overdone. The amount of plant food removed by the crop is great, and it should not be continued long after the trees begin to mature. One of the most frequent mistakes is in planting the corn too close to the young trees, thus overshadowing them and preventing a proper spread and growth of their lower branches.

Small fruits may be grown with profit in small orchards, especially where markets are easily accessible. The growth of any of the berries does not oppose proper development of the trees. Garden vegetables, since they require thorough cultivation and gen-

erally leave some vegetation on the ground, are excellent orchard crops. Cow peas and soy beans are often the best orchard crops, especially where the soil is poor or subject to wash. These crops fertilize the land and increase its capacity for resisting drouth. They should be planted in June. If planted in rows to permit of cultivation for a time, it is better for the trees to be left near the east, space should be left near the trees so that they may be cultivated as late as desired. The cowpeas may be cut for hay, or better yet, pastured with hogs in autumn. Where cow peas or soy beans are grown, it is usually best not to plow them until spring. Some such crop lying on the ground for a winter cover is usually very desirable. Where the land is not very rich, these are the best crops to alternate with corn.

Clover is a desirable crop for hill-sides where the soil has so great a tendency to wash as to prevent cultivation. Where young orchards are to be sown in clover, it should be sown in strips running across the hillside between the rows, to prevent washing, and the trees should be given clean cultivation until they are well established. Orchards on the deep, rich porous "loess" formation along the rivers seem to thrive exceedingly well, even when kept in clover for years. It should be borne in mind, however, that orchards do not thrive in clover except in those localities where clover succeeds well enough to keep down grasses and weeds. An orchard cannot be said to be in clover when the clover is crowded out by other growth.

Rye has given excellent results as a winter cover crop in the station orchard. It may be sown after cultivation is nearly over, and will usually make a good growth to be turned under in spring.

COURSE IN AGRICULTURE

In order to encourage the study of advanced dairy methods the Missouri State Board of Agriculture offers a scholarship of \$100 for the purpose of paying the expenses of a young man interested in dairying, during the short winter course in agriculture at Columbia, which begins Nov. 1, 1911.

The scholarship is to be awarded to the winner of a contest in which those who enter will be required to keep a complete record of the amount of milk and butter fat produced by three or more dairy cows during the month of September. In determining the winner the record made by the cows, together with the completeness of the report, is to count one-half. The other half is to be based upon the accuracy of an essay, telling how the cows were fed and cared for during the test and how the contestant would proceed to select cows for dairy purposes.

The contest is open to all boys in Missouri between the ages of 16 and 20 years, who have not already attended an agricultural college. It is hoped that a large number of boys will enter the contest. The lessons learned during the one month of keeping records of both feed eaten and milk produced will amply pay any boy for his time and effort. The records of each cow and the essay must be submitted before Oct. 10, 1911. Blanks for keeping records, directions for testing and any further information wanted will be furnished by C. H. Eckles, dairy department, Columbia, Mo.

CO-OPERATIVE LAMBSALES

Six farmers living near Columbia, by working together and shipping their lambs on the same day, were able to top the market with the highest price of the year in St. Louis. They got the higher price because the lambs were all put together and the uniform ones picked out and put in bunches together. Uniformity takes the eye of the buyer.

About 125 lambs were shipped in the lot, and all but 25 were the get of pure bred rams. The buyers culled out about all of the 25 and took them at 4 1/2 cents, while the main bunch went in at 7 1/2.

This co-operative lamb selling idea was suggested to the Missouri farmers by Prof. D. H. Doane of the farm management department of the University of Missouri, and it is being encouraged by the Farm Management association. There are several interesting features about the projected organizations.

The use of pure bred rams, preferably Southdown or Shropshire, is required of members of a lamb club. The reasons are several: better lambs are the product, and much more uniformity is found than in the case of a scrub lamb. Members are urged to select their ewes carefully. A poor ewe, like any scrub animal, is a poor investment. She cannot bring a strong, growthy, early maturing lamb. All lambs must be docked and castrated to be shipped by a club. This unquestionably pays.

Modern conditions require that the cost of producing a pound of meat or a pound of milk be reduced to the minimum. The silo helps to lower the cost of production. An acre of corn will make more meat or milk through the silo than it will otherwise.

Mr. R. S. Besse, secretary of the Farm Management association, organized the club at Columbia, which is the first trial in this state. It has been a decided success.

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