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"Burning low-cost fuel saves me plenty of money."

JOHN DEERE Two-Cylinder Tractors have a 15-year record for burning low-cost fuels successfully, efficiently, and safely. They are specially built to save on fuel costs.

The fuel travels from the carburetor to the short, hot manifold, vaporizes, and passes quickly into the combustion chamber before it has time to reliquefy. Thermo-siphon temperature control maintains proper engine temperature. Crankcase breather removes harmful gases . . . prevents oil sludge.

Join the army of John Deere Tractor owners and save hundreds of dollars in fuel costs during your tractor's long life.

FEATURES

- Simple, rugged, two-cylinder engine
- Designed to burn low-cost fuels with outstanding economy
- Thermo-siphon temperature control
- Belt pulley on the crankshaft—full engine power to belt
- Rear wheels adjustable from 56 to 84 inches
- Hydraulic power lift
- No-shock steering

Braden-Bell Tractor & Equipment Co.

PENDLETON - PHONE 518

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YOUR FUEL DOLLAR GOES FARTHER IN A JOHN DEERE

SAFEGUARD DIETS

A study of the diets of families of city workers just completed by the Bureau of Home Economics, U. S. Department of Agriculture, shows that many thousands of Americans are poorly fed, despite this country's abundant food supplies. In this study four thousand weekly food records, gathered in forty-three cities over the country, were analyzed and measured against present day standards of good nutrition. The diets of over one-half of these families were found to be in need of improvement. Many of the not-so-good diets were satisfactory except in one or two respects, but most of the really poor diets failed to meet the needs of the body in several ways and sometimes there was not enough food of any kind.

Some of these families were too poor to pay the cost of suitable food. On the other hand plenty of money did not always mean good diets nor small expenditures poor ones, but of every ten families spending enough to get completely satisfactory diets, only two or four made really wise selections.

Among the diet faults found in this study was a striking need for more calcium and vitamin A. More than half of these families were choosing diets that would not give them what nutritionists call a "safe allowance" of calcium, necessary for the building of bones and teeth, and for some of the body processes.

Since calcium is provided in milk and cheese, two of the most common foods, it seems obvious that many homemakers are overlooking the importance of milk and dairy products as a source of this essential mineral. Green vegetables may meet some of the body's need for calcium too if eaten in generous enough quantities, but most nutritionists agree it is quite impossible to plan diets satisfactory from the calcium standpoint unless the standard amounts of milk are used, i. e., one quart per day for children and one pint per day for adults.

Vitamin A should be kept in mind from beginning to end in this diet planning business. Milk—that is whole milk—butter, egg yolks, tomatoes, leafy green or yellow vegetables, are all good sources of this vitamin. Nutritional "night blindness"—the failure of the eyes to adjust quickly from bright to dim light or vice versa, is now known to be caused from a lack of vitamin A, and in this study of family diets it was found that only about one-third of the families were getting enough to fully protect them from this condition.

Dr. H. C. Sherman, of Columbia University, has given us an easy-to-follow rule for apportioning the food dollar, which if followed, would mean satisfactory diets in all respects. His rule is this: "Spend as much for milk and cheese, and as much for fruits and vegetables, as

you do for eggs, lean meat, poultry and fish." Were this rule followed by everyone it would do much to help in the great national movement to conserve the country's resources—only in this case it would be human resources.

FLAX SUBSIDY TO BE GREAT BOOST TO NEW INDUSTRY

Recent adoption of a new fiber flax subsidy program by the U. S. department of agriculture bids fair to place the fiber flax industry in Oregon on a permanent production basis and will do much toward the development of an American linen industry centered in western Oregon, believes G. R. Hyslop, chairman of the Oregon flax and linen board and head of the plant industries division at Oregon State college.

This board and the various flax plants have been working for more than a year to have the production subsidy re-established, an end now accomplished through the efforts of Senator Charles L. McNary and N. E. Dodd and C. C. Conser, heads of the western division of the AAA.

The new subsidy involves the payment of \$7.50 per ton on fiber flax for spinning purposes up to 5063 tons in 1939, with the possibility of reduced payments in subsequent years applied to larger tonnage. Hyslop believes this will undoubtedly boost the flax acreage for fiber purposes in Oregon, as many have been waiting for the announcement before determining how much acreage to plant, if any.

"Eastern users of fiber have been showing much more interest in the product since the disturbed economic conditions in Europe have become so acute," said Hyslop. "They are becoming somewhat apprehensive of supplies and are in a much better frame of mind toward the development of a domestic flax industry. It is hoped that the increase in acreage will encourage investment in spinning and weaving enterprises in Oregon.

"Other favorable factors are that the agricultural experiment station has been working on fiber flax production and breeding problems, including pest control. This was supplemented some years ago by the transfer of the federal fiber flax production and breeding work from Michigan to Corvallis. Last year Senator McNary obtained a substantial appropriation to support research in improved harvesting and processing methods, which work is now being carried on by W. M. Hurst of the agricultural engineering division, and E. G. Nelson of the bureau of plant industry and their assistants.

PLANS FOR FEED MIXER, FARM HOUSES, AVAILABLE

Plans for a cone type feed mixer and for two farm residences are now available from the agricultural engineering department at Oregon State college. The feed mixer has 1000 pounds capacity, and is modeled after a successful installation on the C. F. Pelland farm, St. Paul, Or.

Both farmhouse plans are for six-room structures, one being designed to face west and the other south. Both are planned for Pacific northwest conditions. The feed mixer plans may be had free, while charges for the house plans are only about \$1 each to cover blueprint costs.

Convict, Priest, Dragon

Started the Rouen Party

The traditional fair of St. Romain is a festival which has been celebrated off and on since the days of Richard the Lionhearted, observes a Rouen, France, correspondent in the Detroit News.

The medieval pageantry which is conceived as a background for the usual exchange of harvest produce from the fruitful farms and orchards of Normandy, recalls an old story of a saint and a dragon which is still considered "gospel" by many of the French peasants.

It seems that St. Romain, Bishop of Rouen, went forth one day to conquer a great Gargoyle which had been indulging an unpleasant appetite for human beings at the rate of two or three a meal. The bishop took with him a condemned convict, thinking, perhaps, that if the dragon were furnished with a satisfactory "hors d'oeuvre" it might be captured while enjoying this first course. But things worked out better than expected; for the Gargoyle was so awed at the sight of the holy man that it immediately became weak enough for the convict to give it a quick push into the Seine. Being strictly a land dragon, it promptly drowned and Rouen was saved.

What is certainly true is that from the Twelfth to the Eighteenth century, a condemned criminal was set free from the dungeons of Rouen every Ascension day in memory of St. Romain and his courageous convict. It involved a colorful procession (including a stuffed dragon), besides banquets and various solemn rites.

Mud Skipper, Fish That

Can Exist Out of Water

Fish out of water are exhibited in the aquarium's tropical hall in London. They are known as mud skippers. They have been accommodated in a large case furnished with half-submerged branches, miniature gravel beaches, etc.—the better to display the creature's unique habits.

These brackish-water fish have to a remarkable degree succeeded in conquering the land. The eyes being virtually raised upon stalks, the fish can enjoy a clear view of insects living above water line, and often leave the water in pursuit of such insects, pursuing them along tree branches, besides stalking them on land much as might a lizard.

By means of its wide-spreading breast fins and plant tail the mud skipper can scuffle and even leap with such rapidity as to render its capture as difficult as that of a grasshopper. While out of water the gill-chambers of the fish are kept filled with air.

Prolonged exposure to sun and air would quickly tell upon the eyes of a normal fish. The mud skipper, however, safeguards its organs of sight against drying up by frequently lubricating them, withdrawing them into their sockets and rolling them about, an operation ludicrously suggestive of winking.

Tanning Leather for Soles

Tanning is a slow affair—especially in the curing of leather for soles. The primary function of the process is to preserve the skin and make it at once pliable and wear resistant. The hides of steers, cows and bulls are used to make sole leather. The green hides as they are sent from the packer or slaughter house are "pickled" or salted to prevent decay. At the tannery, notes an authority in the Chicago Tribune, they are sorted into various grades of durability and appearance. The hides are soaked to remove dirt and blood and then dropped into vats containing milk of lime and sodium sulphide to loosen the hairs from the derma or top skin. The hides then are "dehaired" and scraped to remove flesh attached to the bottom of the derma. Finally the skins or hides are placed in vats containing bark juice liquors of varying strengths. This process consumes 90 days. Then the hides are oiled and dried for another two months.

The Twelve Caesars

The twelve Caesars were Julius Caesar and the eleven emperors following him, most of whom were from his family. Nerva was chosen by the senate, and was the first to select a successor without regard to family. Following are the names and dates of the reigns of the twelve: Julius Caesar, 44 B. C.; Augustus, 31 B. C. to 14 A. D.; Tiberius, 14-37; Caligula, 37-41; Claudius, 41-54; Nero, 54-68; Galba, 68-69; Otho, 69; Vitellius, 69; Vespasian, 69-79; Titus, 79-81; Domitian, 81-96. The title Caesar was given to all of the Roman emperors, until the time of Hadrian, after whom Caesar was the title of the heir of the throne, and the title of the emperor was Augustus.

Potash Unknowingly Used

Potash was unknowingly used as a fertilizer in America for several hundred years, according to Industrial and Engineering Chemistry. The practice of burning the timber of clearings added potash to the corn and pumpkin patches of the aborigine and colonist alike. Wood ashes, supplying potash, have been used in gardens for centuries; in fact, together with kelp and its ash, they furnished the only potash available until well after the middle of the last century, when production started from the German mines.

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51 - The Herald

SAFETY SONNETS

"Traffic chiseling" is an insidious art which in many circumstances produces more disastrous results than openly reckless driving, in the opinion of Earl Snell, secretary of state.

While the chiseler often suffers from his own actions, nearly as frequently does he force other drivers into difficulties while he himself goes free.

The traffic chiseler is the person who seizes the right-of-way whenever he thinks he can get it, whether it is rightfully his or not; he passes other cars when he has restricted clearance, forcing them to slow down suddenly or take to the ditch; he never slows down when he is on

a through street, but cuts across in front of cars which are making a legitimate attempt to get through the stream of traffic. He himself will bluff his way through other traffic, park in restricted zones, drive slowly in spots where other traffic is moving fast, and honk through crowded spots where he should go slowly and wait his turn.

Many persons are guilty of occasional chiseling without knowing that they are putting other drivers at a disadvantage. Every driver should take stock of his own driving habits and see whether he sometimes fails to give other drivers the privileges that are rightfully theirs, according to Snell.

Use the Classified Column.

COUNTY TREASURER'S FINANCIAL STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR MONTHS JULY - DECEMBER, 1938, INC.

RECEIPTS		DISBURSEMENTS	
Taxes: Sheriff	\$283,111.88	Warrants: General	\$84,271.75
Taxes: Clerk	2,801.80	Warrants: Road	71,205.37
Fees: Recorder	2,450.65	Warrants: Interest	256.51
Fees: Sheriff	880.00	Warrants: Irrigation	14,910.04
Fines: General	357.80	Warrants: School Supt.	83,385.15
Fines: Road	974.25	Warrants: Miscellaneous ..	2,168.60
Fines: Game	295.00	Remittances: S. D. Taxes ..	69,026.31
Fines: Liquor	70.00	City Taxes	54,740.14
Interest Daily Balance ..	284.60	1/2 Game Fines	147.50
Interest Sinking Fund ..	183.00	School Bonds Redeemed ..	38,021.80
Principal Sinking Fund ..	2,751.05	School Bond Interest	8,850.01
State: Motor License	55,096.70	Miscellaneous	13,530.48
State: Miscellaneous	13,093.52	Total disbursements for	
Sale of Property	65.00	six months' period	\$440,513.66
Irrigation	1,985.12	Bal. on hand at end of	
Temporary License	200.00	December, 1938	258,420.46
Refunds	10,038.32	TOTAL	\$698,934.12
Miscellaneous	308.56		
Ward Control	3,338.48		
Trust	140.66		
Bonds & Premium	3,510.54		
Total receipts for six		BETTYE F. DeHART,	
months' period	\$381,936.93	County Treasurer.	
Bal. on hand at begin-			
ning July, 1938	316,997.19		
TOTAL	\$698,934.12		

COUNTY CLERK'S SEMI-ANNUAL REPORT. SUMMARY OF EXPENSES OF UMATILLA COUNTY, OREGON, FOR THE LAST SIX MONTHS OF THE YEAR 1938.

General Road Fund	\$74,646.16	Juvenile	\$ 18.24
County Court & Comm. ..	2,816.01	Indigent Sold	1,843.76
Circuit Court	1,738.40	Sealer of Weights	152.90
Justice Court	679.00	Law Librarian	568.80
Sheriff's Office	9,429.60	Emergency	6,663.89
Clerk's Office	3,172.46	Old Age Pension	15,344.17
Recorder	2,086.22	Forest Protection	34.00
Treasurer	1,147.20	Teachers' Institute	200.00
Assessor	2,751.35	Blind Assistance	276.11
School Supt.	1,997.95	State Employment Ser-	
Court House	2,357.54	vice	57.00
Poor	10,739.01	Aid to Dep. Children	2,646.68
Jail	1,922.91	Control of Morning Glo-	
Coroner	256.30	ry	450.00
Watermaster	2,519.84	Total expenses for six	
Election	3,383.20	months' period	\$158,452.47
District Attorney	1,053.58		
Library	6,025.33		
Health Unit	1,480.86		
Total expenses for Road	74,646.16		
Total expenses for other	83,806.31		
			\$158,452.47

WARRANTS OUTSTANDING GENERAL FUND.

Warrants outstanding June 30, 1938	\$15,224.26
Warrants issued six months ending December 31, 1938 ..	83,806.31
Warrants redeemed six months ending December 31, 1938 ..	84,271.75
Warrants cancelled six months ending December 31, 1938 ..	5.69
Warrants outstanding December 31, 1938	14,753.13

WARRANTS OUTSTANDING ROAD FUND.

Warrants outstanding June 30, 1938	17,638.14
Warrants issued six months ending December 31, 1938 ..	74,646.16
Warrants redeemed six months ending December 31, 1938 ..	71,205.37
Warrants cancelled six months ending December 31, 1938 ..	56.33
Warrants outstanding December 31, 1938	21,022.60

MRS. E. B. CASTEL, County Clerk.

COUNTY SHERIFF'S REPORT FROM JUNE 22, 1938, TO DECEMBER 20, 1938, INC.

MONEY TURNED OVER TO TREASURER.

June	\$ 7,279.17
July	20,881.25
August	24,520.02
September	48,813.67
October	81,838.68
November	39,633.66
December	56,772.22

TOTAL \$279,738.67

R. E. GOAD, Sheriff.
 By Vina Hoskins, Deputy.

Capacity Crowds Throng Ford's Fair Exhibit



The elaborate Ford Building exhibits at the Golden Gate International Exposition are now playing to packed houses. Here is a portion of opening day crowd listening to one of the many trained lecturers describe the manufacture of Champion spark plug porcelain from western-mined sillimanite.