

PORTLAND MARKET

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255 Alder Street, Portland, Oregon.
Will rent you a room for \$1.00 per day, or a room with bath for \$1.50 per day?

BAB'S RESTAURANT
A good place to Eat and Live Well.
Remarkable \$6 luncheon at noon.
Open 7 a. m. to 1 a. m., 328 Stark St.

The L Cafeteria
Sixth street opposite Meir & Frank's. The Best Eating place in the City. The Finest Coffee and Pastry a Specialty.

MULTNOMAH HOTEL
"Where Home Comforts Abound"
PORTLAND, ORE.
The pleasure of your trip to Portland will depend upon the hotel you select. Only surroundings, moderate rates, and the welcome you find in your own home, await you at the Multnomah.
Garage in Connection.

TYPEWRITERS
Guaranteed Reliability.
Rented or sold. Easy terms. Satisfaction guaranteed.
Wholesale Typewriter Co.
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RUBBER STAMPS AND MARKING DEVICES.
"Everything for the Office."
Sole and Wholesale Portland, Oregon.

Pacific Chiropractic College
Park and Yamhill, Portland, Oregon.
Augmented curriculum, able faculty. Highest standards, day and night courses. Clinical facilities unequalled. Fall term September 1. Write for catalogue.

Accordian Pleating
Knife and box pleating. Hemstitching. 10 yd. buttons covered.
Mail orders a specialty.

SWOLLEN (Varicose) VEINS
Are painful and often dangerous. Our Hand massage and Elastic Stockings. Relief and Bandages always give relief.
Filters and Makers for Fifty-five Years.
Satisfaction or Money Back.
Send for Book and Measure Blank Today.
WOODARD, CLARKE & CO.
Portland.
Woodlark Building Alder at West Park

AUTO REPAIR PARTS
Send for free catalog.
PISTONS - PISTON PINS - RINGS
Cylinder and Crank Shaft Grinding. Automotive Machine Work and Welding.
COOK & GILL CO., INC.
11th and Burnside Sts.
Portland, Ore. Phone: Bldg 3201

PILES
PITUITA, FISSURE, itching and all other proctital conditions except cancer permanently cured without a surgical operation.
My method of treatment saves the tissues instead of destroying it. It is painless, requires no anesthetic and is permanent. There is no recurrence, no interference with business or social engagements.
I guarantee a cure or will refund your fee.
Call or write for booklet.
Mention this paper when writing
DR. C. J. DEAN
Second and Morrison Sts., Portland, Ore.

SORE MOUTH
PS-AZIDE MOUTH WASH cures bleeding and sore gums and mouth. Users are boosters.
At your druggist's or sent, charges paid, on receipt of price, \$2.50.
Hillsboro Chemical Co., Hillsboro, Ore.
References: Shute Savings Bank, Hillsboro, Oregon.

DR. C. H. EAST
PHYSICIAN AND SURGEON
Specialties: Gynecology, Diseases of Women and Maternity
Office Morgan Building Portland, Ore.

DR. G. E. WATTS
213 Oregon Building.
PORTLAND, OREGON.
SPECIALIST
Femal and Rectal Troubles and GLAND TRANSPLANTATIONS
Eye and Eye Glasses Care my specialty. Consultation free. Satisfaction guaranteed. Dr. B. A. Bedyne, 384-9 Pittcock Block.
EYES EXAMINED, GLASSES FITTED. Repairing done by mail. Most modern equipment. Satisfaction guaranteed.
PRE-WAR PRICES
Clark-Brower Optical Co., 1123 6th Street

NEW FLUFF RUGS AT HALF COST OF NEW CARPETS.
Have your old worn out carpets and woolen clothes made into artistic reversible FLUFF RUGS. Carpets and rugs required, steam cleaned. Long fringes all sizes. Buy from factory and save money. Write for prices.
Northwest Rug Co., 188 E. 8th St. Portland, Ore.

The Dalles Fruit & Produce Comp'y
Wholesale Dealers in FANCY FRUITS and FARM PRODUCTS.
121 Front Street, Portland, Oregon.

LABOR IN THE SOUTH SEAS
Toller, Who Has No Pressing Need to Work at All, Now Demands Bigger Pay.

Even in the remote islands of the New Hebrides the labor problem has entered its head. The employer in civilized regions has a slight advantage, resulting from the fact that men must work to live. In the New Hebrides, indeed all throughout Melanesia, the black man can live very comfortably, according to his own standards, on what nature provides, writes Martin Johnson in Asia Magazine. Only a minimum of effort is required to secure food and clothing and shelter, and most of that effort is put forth by the female slaves he calls his wives. The recruiter who travels through the islands to engage labor for work on the coconut plantations naturally finds it harder to get the Melanesian to exchange his life of ease for a life of toil. And the inexperienced recruiter finds it very hard. The days when natives could be picked up on any beach are past. The blacks in the

more accessible regions know what recruiting means—two years of hard labor from which there is no escape and from which a man may or may not return home. So the recruiter must look for lands in the interior, where knowledge of the white man and his ways has not penetrated. Even here the experienced recruiter is at a disadvantage. For the experienced recruiter has invariably preceded him.
Each year the number of available recruits is growing fewer, for the native population is dwindling rapidly. As a result the cost of labor is high. In the Solomon's one may secure a native for a three years' term at \$5 or \$6 a year in the case of inexperienced workmen, or at \$9 a year in the case of natives who have already served for three years. In the New Hebrides planter bids against planter and the native benefits, receiving from \$12 to \$15 a year for his work.

Before enlarging and re-equipping its telephone system the government of Czechoslovakia will send a commission of experts to the United States to study American methods.

Rely on Cuticura To Clear Away 'Skin Troubles'
Itching, Eczema, Boils, Head Lice, Ringworm, Scabies, Urticaria, Sore Throat, Etc.
ALASKA PLUMBING & HEATING CO. Plumbing Fixtures and Supplies. Pipe Fittings, Hoses, and other supplies. Cleaning and Dyeing.
For reliable Cleaning and Dyeing service send parcels to us. We pay return postage. Information and prices given upon request.
ENK'S CITY DYE WORKS Portland
Established 1899
DOORS AND WINDOWS
We can sell you Doors, Windows, Roofing, Siding, Glass and Builders Hardware direct. We are manufacturers. Write for prices before buying. Heenan, Shash & Moor Co., 211 First St., Portland.
DRUGLESS PHYSICIAN
Chronic diseases a specialty. Dr. W. N. Alford, 1400 1/2 Broadway, Portland, Ore.
EMBROIDERING AND PLEATING
Accordian side and box pleating, Hemstitching, Buttons Covered, Braiding, etc.
JOY THE TAILOR Suits cleaned, \$1.25. We pay return postage.
104 Fourth St. Portland, Ore.
HORSES, MULES BOUGHT, SOLD
Crown Station, Inc., 283 Front St., Portland, Ore. Highest market prices for sale or hire. Special rates to loggers and contractors. With delivery without harness. Phillip Suttler, Inc.
U. S. STABLES, 283 Union Ave. Draft horses bought and sold.
C. L. Chappel, 222 Union Ave. South.
LEARN MULTIGRAPHING
The Cullin School, only recognized school on the coast. Experienced operators always in demand. 409 Artisan Building.
MACHINERY
Send us your inquiries for anything in Iron or Woodworking Machinery, Logging, Sawmill, Contractors' Equipment, Locomotives, Rollers, Engines, Crushers, Rail, Cable, Hoisting, etc. Burke Machinery Co., 525 Railway Exchange Bldg., Portland, Ore.
MOTORCYCLES AND PARTS
All makes. Easy terms.
EAST SIDE MOTORCYCLE CO.
44-46 GRAND AVE.

PERSONAL
MARRY IF LONELY: For results, try me! Successful, desirable, intelligent, rich, hundreds rich with marriage soon, strictly confidential, most reliable, years of experience, desirable, excellent. Write to: 'SANTARY MARRY PARLOR', Box 356, Oakland, California.
WILLEY FRUIT COMPANY, INC.
Portland, Oregon. Wholesale fruit and vegetable business. All kinds of fruit and produce bought for cash.
SPRAY FOR ALFALFA WEEVIL
Increased Production of One-Half Ton to Acre Secured by Application of Arsenate.

The county agent here in Utah reporting to the United States Department of Agriculture says the spray developed by the office of cereal and forage insect investigations, bureau of entomology, in the department has increased the production of the sprayed over the unsprayed alfalfa fields by an average of one-half ton to the acre. This spray is made of two to two and one-half pounds of lead arsenate or calcium arsenate to 100 gallons of water. It is applied in a fine mist with a power sprayer at the rate of 80 to 100 gallons to the acre. The state leader says 351 farms were included in the demonstration, which covered 10,113 acres. It is estimated the saving effected by this form of alfalfa control amounted to \$289,967.

OUR GIFT TO THE BRIDE
Before you order your wedding announcements and cards, write or visit THE CHETOPA PRESS for samples and estimates. It is a beautiful calling card in an engraved effect of choice. Portland, Oregon.
"A Moderate Priced Hotel of Merit"
HOTEL CLIFFORD
East Morrison St. at East Sixth, the Principal East Side Hotel. 4 minutes from Shopping District. Four blocks from M. F. East Side Station.

SUPERFLUOUS HAIR
Do not bother with hair on your face, neck or arms. The American system removes it permanently. No electric needle or depilatory use. EYESHED SYSTEM. 427 Pittcock Block.

ACCORDIAN PLEATING
Knife and box pleating. Hemstitching, 10 yd. buttons covered.
BRACING, WELDING & CUTTING
REPAIRING EVERY KIND OF STEEL AND IRON.
CHIROPRACTOR AND ELECTRO.
Drs. Baker and Dixon, 317 Dekum Bldg.
CUT FLOWERS & FLORAL DESIGNS
Carrie Brock, Florist, 287 Morrison St.
DANCE EVERY NIGHT. EVENING Oriental Cafe. Chinese-American Kitchen. Corner Broadway and Wash. Portland.

FOUNDRY AND MACHINE WORKS
Commercial Iron Works, 716 & Madison.
GUARANTEED REBUILT MACHINES
Oregon Typewriter Co., 44-A 1st St.
HARD WOOD FLOORING
Cedar Leaf Hardwood Floor Co., 321 E. 7th St. N. Floor electric acid.

MGFS. OF VULCANIZED ROOF PAINT
New roofs and repairing done. Young and Wood, 1123 E. Commercial St.
MGFS. OF REED FURNITURE
Buy Coast Made Goods. Reed Specialty Shop, 212 Williams Ave.
OREGON FLUFF RUG CO.
J. H. Lehmann, Prop. 1944 East Stark
PYORRHEA DENTISTS
South Long Stevenson 319 Bush & Lane Bldg.
SALVATION ARMY RESCUE HOME
Will help friendless girls.
J. M. Carr, Mayor & Alexandria St.
SILVER WATER TANKS
National Tank & Pipe Co., Portland.
TYPEWRITERS-NEW OR REBUILT
Schubert Typewriter Co., 419 1/2 1st St.
Wetter System of Suggestive Therapy.
Dr. T. W. Ayers, 716 Dekum Bldg.

POETS WHO HAVE SUNG OF CATS.
Poets of all nations have sung of puss. Of these Beaudelaire came nearest to appreciating her. He wrote three great poems to cats. No other poet, unless possible Theophile Gautier, has created works to rival them. Taine, the celebrated French historian and critic, wrote twelve sonnets to three cats. They may be placed high in the anthology of cat verse—on a level below Beaudelaire, of course.—Exchange.

Cuticura Soothes Baby Rashes.
That itch and burn with hot baths of Cuticura Soap followed by gentle anointings of Cuticura Ointment. Nothing better, purer, sweeter, especially if a little of the fragrant Cuticura Talcum is dusted on at the finish. 25c each everywhere.—Adv.

Are You Satisfied? BEHNE-WALKER BUSINESS COLLEGE
Is the biggest, most perfectly equipped Business Training School in the Northwest. Fit yourself for a higher position with more money. Behne-Walker Business College. Write for catalog—Fourth and Yamhill, Portland.
P. N. U. No. 36, 1921

Have No Sleeves

Gowns Without Arm Covering Most Noticeable Fashion.

Style Applies to Majority of Garments From Bathing Suit to Outer Wrap.

Activities at country clubs and summer resorts have brought to light all of the warm weather fashions. The dresses of the summer season repeat very much the ideas of the preceding season. The materials are different, that is all.

In the trade fashion world, states a fashion correspondent, we are beginning to be confronted with styles for fall, while women have only just begun to bring out their summer clothes and while they are still feeling a little chilly without their outer wraps. It is a whirling world that shows a new idea along before the old one has been exhausted, but then there is nothing so awfully new under the sun if one stops to take the trouble to dissolve it into its elements.

Perhaps the most noticeable prevalent fashion is that of the sleeveless gown. From the bathing suit to the outer wrap things are made without sleeves. Sometimes short sleeves protrude from the widened armholes and sometimes they do not. This is all governed by the occasion for which the costume is worn. But the women seem to like the sleeveless gowns and, for this reason they are eminently good and satisfactory.

They are made of finely woven jerseys, of ratines, of tulle, of linen, in fact of any material that has enough body to be depended upon to keep its shape through all adventures. And this is something which women have learned in recent years—that, if they are to have wearable and satisfactory summer clothes, they will in some way manage to have the materials of the sort that will not crush. It is all right around home to wear frocks that have to visit the pressing table repeatedly, but if one has a penchant for fitting about the country or indulging in sports of any sort, then the harder and more resistant materials must be brought into play.

There are frocks and sweaters and sleeveless coats made of these heavy jerseys and flannels and knitted materials. They are of the simplest of lines, but their great attractiveness lies in the fact that they are most brilliantly colored.

FRILLS AND DAINTY BLOUSE
This frilly and dainty blouse is of georgette crepe with frills of lace veenise, and is one of the recent warm weather creations.

BROWN IS TO BE FALL COLOR
New Card of Tints Prescribes Various Shades From Light Buff to Deep Seal.
The Textile Color Card association, which tells just what shades to wear each season, has issued its fall color card. Once again, as befits the autumn, brown and its tones is the popular color, and it comes in tints from light buff through gold and rust to a deep seal. Purple is also used, while gray and navy blue are of course in vogue.
For evening wear shades of red such as garnet, a deep rose, poppy red and aurora, a flame shot coral; together with blues, greens and rose oranges, are all to be worn. Indeed, the colors for fall are carefully chosen, and while they are of necessity based on the seven primary tones, they have been so combined and blended that many new shades will greet us in the season to come.
It is but a short time and the August fur sales will be with us, and the comforting assurance is given that the prices will be lower than they were a year ago. Just now the fur neck piece for wear with suit or frock is smart.
Because of the popularity of gray as a garment shade all of the gray furs, squirrel, silver fox, caracul and krimmer are featured, the latter fur being used as a trimming on silk and satin summer coats.
Among the novelties for blouses are raffled rainbow silks, copied by English looms from old Roman patterns. These are severely tailored with broad shoulder line and short back. They have gusset breast pockets and are cut for high or low neck fastening with seven bullet pearl stud buttons arranged close together and reaching only to the bust line.
To Place Rugs Properly.
Rugs should not be placed cornerwise in a room. Lay straight on the floor; follow the lines of furniture and the proportion of the room.

HINTS ABOUT CLOTHES
Frocks of crepe de chine feature looped panels.
Armbands of ostrich are worn with evening costumes.
Mushroom-shaped hats have long ribbon streamers.
Gold latticework is effective on a frock of brown tulle.
Baroque pearls worn on a silken cord are the latest fancy.
Allover embroidery jackets are worn with plain skirts, giving a two-fabric effect.
White veiling is having a tremendous vogue and usually it is dotted with various colored chenille.
Cuffure bands coming down over the forehead and fastening under the hair at the sides have been seen lately.
Lace has invaded even the realm of the purse—the outside this time! Afternoon bags, pouch shape, are often fashioned of it.
Just now there is a decided tendency toward featuring the tulle hat in navy or black. On every hand one hears that this is to be a white summer, and judging by the alluring frocks and silken sports costumes this is apt to be true.
Many high-length models in exclusive blouses are to be seen. Wool embroidery, bead decorations and fancy stitching in silk and chenille are the trimmings most in evidence. The tie-on blouse is still in high favor, the blouses that tuck into the skirt being generally of the lingerie order and of wash materials.
Tulle hats that are apparently hopelessly crushed and shabby may be made to appear almost as good as new by steaming over boiling water. Hold the hat as close to the steam as possible without letting the tulle become wet. Then hold a light towel around the hat for a few minutes, after which expose it to the air and it will soon dry and look fresh and crisp.

NUT TREES GOOD FOR SHADE
Japanese Walnut is Especially Appropriate for Farm and Door-Yard Planting.
The Japanese walnut offers possibilities for landowners who are seeking to plant nut trees for shade or other purposes; say specialists of the United States Department of Agriculture. It is nearly as hardy as the black walnut and is by no means uncommon in northern and eastern states, where it is especially appropriate for farm and door-yard planting. For the present, seedling trees will have to be relied upon almost entirely, as very few budded or grafted trees are available.
This nut has been confused with the Persian or so-called English walnut, although the two are quite unlike. The Japanese is a dwarfish species, with dull-green rough leaflets, often as many as 15 or 17 to the leaf, and bears nuts in racemes of a dozen or more.
The shells are thinner than those of the black walnut, but thicker than those of the Persian. The seed is round. The flavor of the kernels is much like that of the American butternut.

GROWERS STUDY CONDITIONS
Sales Concluded on Satisfactory Basis and Useful Experience Obtained in Market.
Some cabbage growers accompanied their car-load shipments to market the past season in order to secure first-hand knowledge of shipping conditions and marketing practices. As a result, not only were sales made on a fairly satisfactory basis from the standpoint of the producer, but the growers obtained considerable useful experience through observing the handling of the cabbage in the market. They studied conditions affecting shipments en route and became better acquainted with the demands of the large wholesale markets. The information and experience obtained were of particular value to growers located in sections where cabbage had not been grown commercially in previous years. The plan was employed by growers having two or more cars ready for shipment at one time, and is a detail in the business of marketing farm products that experts of the bureau of markets, United States Department of Agriculture, say might sometimes be employed profitably by producers of other farm crops.

THE ANKLE-LENGTH SKIRT
Ugly, and Make Everyone Who Wears Them Look Old and Dowdy, Fashion Writer Says.
There can be no two opinions about the qualities of ankle-length skirts, which are gathered at the waist and which measure from five to six yards at the extreme hem. They are frankly ugly, a fashion writer asserts, and they make everyone who wears them look old and dowdy.
Hooped dresses of 1859 outline are quite different. This is a special genre, and it is very attractive in some circumstances. At fancy-dress balls, for example, dresses of this order invariably score an immediate success.
But for everyday wear? You see, we have got far away from the aim, stay-at-home spirit of 1859! This is an age of hurry and bustle, and for that reason, if for no other, we need a special style of dress.
Crinolines were never intended for crowds, and the average woman of today lives her whole life in the midst

POISONED BRAN TAKES HOP OUT OF PESTIFEROUS GRASSHOPPERS

Sole and Back View of Hopperdozer for Destruction of Hoppers—Horses Are Hitched to Projecting Ends of Two-by-Four.



Prepared by the United States Department of Agriculture.
There is nothing so good as poisoned bran for taking the hop out of a grasshopper and there is no better way of buying and distributing the bran than through a community organization, specialists of the United States Department of Agriculture find. In the areas where the grasshoppers come down on the farm crops like all the plagues of Egypt there should be grasshopper-fighting organizations, just as there are fire-fighting organizations in every city. Fighting a grasshopper invasion without the help of the neighbors is like trying to put out a fire in a powder factory with one bucket of water.

In the Pacific states the vast, uncultivated areas of mountains, foothills, and grasslands afford ideal breeding grounds for at least eight common species of grasshopper. Undisturbed, the pests can mass their forces in the spring and be ready for a descent upon the alfalfa fields and cultivated crops of the farmer when weather conditions permit. There seems to be little hope of destroying the grasshoppers in these isolated breeding areas and for that reason specialists of the bureau of entomology, United States Department of Agriculture, maintain that it will be many years before the grasshopper menace disappears from the West. But, while the eight plagues cannot be exterminated at their source, they can be

minated at their source, they can be controlled with a systematic, well-directed barrage of poisoned bait, fire, and other weapons for control when they attempt to invade the cultivated fields.
Preparing for the Attack.
Every locality should have an organization fully equipped and prepared to meet the grasshopper onslaught. All preparations should be made early in the spring before the insects have left their breeding grounds. The organization should be directed and controlled by efficient and energetic leaders, and it ought to have the co-operation and support of every farmer in the community as well as the landowners who hold title to the remote areas from which the plague spreads.

CONTROL OF WHEAT DISEASE
Farmers' Bulletin 1213 Tells of Flag Smut Discovered in Illinois County in 1919.
Methods for controlling flag smut, a destructive disease of wheat, are given in Farmers' Bulletin 1213, Flag Smut of Wheat and Its Control, issued for free distribution by the United States Department of Agriculture. The disease was discovered in 1919 near Granite City, Madison county, Ill., and in 1920 was found in 111 fields confined to 47 square miles.
Black stripes running lengthwise in the leaves and leaf sheaths are typical of flag smut. Diseased plants are stunted and rarely head. The disease is spread by spores carried on the seed, and by spores left in the field on infected plant material or on the ground, where they may be scattered in various ways, and infect wheat seedlings in the fall.
Treat with formaldehyde the infested grain as it comes from the thresher. Burn infested straw. Sow disease-free seed on noninfested land. Treat with copper sulphate and lime the seed wheat to be sown in the infested area. Grow resistant varieties.
The bulletin may be had upon application to the division of publications, United States Department of Agriculture.

Teams and Implements.
Good teams and satisfactory implements have been the cause of success on many farms. Man cannot do good farming without sufficient teams and adaptable implements.
Bad Place for Roosts.
It is bad practice to make the fowls roost over a mass of droppings on warm nights. These send up large quantities of ammonia gas which is very harmful. Keep things clean.
Creating Reputation.
Have you named your farm and placed the sign up over the gate? That's one of the best ways of creating a reputation for your produce.
Keep Poultry House Clean.
Don't allow the litter in your poultry house to become damp and badly broken up. It will cut down your egg production if you do.
Care of Work Horse.
Take good care of the work horse these warm days.

Eight species in West.
There are at least eight species of grasshopper commonly found in the Pacific states. Some of these are winged, some are not; some prefer one variety of food, but altogether, when seasonal conditions are favorable, they can destroy any crop that western farmers grow. The habits and characteristics of each species are described in Farmers' Bulletin 1149, Grasshopper Control in the Pacific States, which may be had upon request of the United States Department of Agriculture, Washington, D. C.
In addition to a brief description of the pests, the bulletin gives the recipes for mixing the most efficient poisons, when to spread, and how to place the bait so as to avoid injury to live stock. Special control measures are required to meet different geographical conditions, and the publication presents the methods that have proved most effective after five years of experimentation.

Grasshopper at Work.
The grasshopper is shown in the illustration eating alfalfa.

Side and Back View of Hopperdozer for Destruction of Hoppers—Horses Are Hitched to Projecting Ends of Two-by-Four.

An equitable method of raising funds for the work can be arranged if every landholder is taxed on the acreage he holds or operates. The funds should be collected and placed at the disposal of a good business man who will know how and where to go about buying poisons and other supplies when they are needed, without the necessity of unloading red tape. Sometimes it is advantageous to fight the grasshopper army with fire, and it is often necessary to spread poisoned bait upon the property of nonresident landowners. Here are two points where legal advice is desirable, and the leaders should know their exact rights and limits in these matters before the time comes for them to act to save the crops of the community.

The district is divided into defense areas and each area put under the supervision of a man who knows grasshopper habits and how to use the weapons which the organization has put in his hands, there will be no waste of materials or effort when the footholds disgorge their hungry hordes. Lastly, the wider cooperation the better the results will be. It does no good to drive the hoppers from one district, if they are allowed to settle and feed upon another—passing the pest along to the other fellow does not afford permanent relief, and it puts an extra hardship upon one's neighbor. The assault should be simultaneous throughout the whole infested area; farm should cooperate with farm, village with village, and county with county, so that every leap that the hopper makes to escape the frying pan will land him in the fire, the specialists say.

Japanese Walnut is Especially Appropriate for Farm and Door-Yard Planting.
The Japanese walnut offers possibilities for landowners who are seeking to plant nut trees for shade or other purposes; say specialists of the United States Department of Agriculture. It is nearly as hardy as the black walnut and is by no means uncommon in northern and eastern states, where it is especially appropriate for farm and door-yard planting. For the present, seedling trees will have to be relied upon almost entirely, as very few budded or grafted trees are available.
This nut has been confused with the Persian or so-called English walnut, although the two are quite unlike. The Japanese is a dwarfish species, with dull-green rough leaflets, often as many as 15 or 17 to the leaf, and bears nuts in racemes of a dozen or more.
The shells are thinner than those of the black walnut, but thicker than those of the Persian. The seed is round. The flavor of the kernels is much like that of the American butternut.

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Care of Work Horse.
Take good care of the work horse these warm days.

Grasshopper at Work.
The grasshopper is shown in the illustration eating alfalfa.

Side and Back View of Hopperdozer for Destruction of Hoppers—Horses Are Hitched to Projecting Ends of Two-by-Four.

An equitable method of raising funds for the work can be arranged if every landholder is taxed on the acreage he holds or operates. The funds should be collected and placed at the disposal of a good business man who will know how and where to go about buying poisons and other supplies when they are needed, without the necessity of unloading red tape. Sometimes it is advantageous to fight the grasshopper army with fire, and it is often necessary to spread poisoned bait upon the property of nonresident landowners. Here are two points where legal advice is desirable, and the leaders should know their exact rights and limits in these matters before the time comes for them to act to save the crops of the community.

The district is divided into defense areas and each area put under the supervision of a man who knows grasshopper habits and how to use the weapons which the organization has put in his hands, there will be no waste of materials or effort when the footholds disgorge their hungry hordes. Lastly, the wider cooperation the better the results will be. It does no good to drive the hoppers from one district, if they are allowed to settle and feed upon another—passing the pest along to the other fellow does not afford permanent relief, and it puts an extra hardship upon one's neighbor. The assault should be simultaneous throughout the whole infested area; farm should cooperate with farm, village with village, and county with county, so that every leap that the hopper makes to escape the frying pan will land him in the fire, the specialists say.

Eight species in West.
There are at least eight species of grasshopper commonly found in the Pacific states. Some of these are winged, some are not; some prefer one variety of food, but altogether, when seasonal conditions are favorable, they can destroy any crop that western farmers grow. The habits and characteristics of each species are described in Farmers' Bulletin 1149, Grasshopper Control in the Pacific States, which may be had upon request of the United States Department of Agriculture, Washington, D. C.
In addition to a brief description of the pests, the bulletin gives the recipes for mixing the most efficient poisons, when to spread, and how to place the bait so as to avoid injury to live stock. Special control measures are required to meet different geographical conditions, and the publication presents the methods that have proved most effective after five years of experimentation.

Japanese Walnut is Especially Appropriate for Farm and Door-Yard Planting.
The Japanese walnut offers possibilities for landowners who are seeking to plant nut trees for shade or other purposes; say specialists of the United States Department of Agriculture. It is nearly as hardy as the black walnut and is by no means uncommon in northern and eastern states, where it is especially appropriate for farm and door-yard planting. For the present, seedling trees will have to be relied upon almost entirely, as very few budded or grafted trees are available.
This nut has been confused with the Persian or so-called English walnut, although the two are quite unlike. The Japanese is a dwarfish species, with dull-green rough leaflets, often as many as 15 or 17 to the leaf, and bears nuts in racemes of a dozen or more.
The shells are thinner than those of the black walnut, but thicker than those of the Persian. The seed is round. The flavor of the kernels is much like that of the American butternut.

Teams and Implements.
Good teams and satisfactory implements have been the cause of success on many farms. Man cannot do good farming without sufficient teams and adaptable implements.
Bad Place for Roosts.
It is bad practice to make the fowls roost over a mass of droppings on warm nights. These send up large quantities of ammonia gas which is very harmful. Keep things clean.
Creating Reputation.
Have you named your farm and placed the sign up over the gate? That's one of the best ways of creating a reputation for your produce.
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