

Civil

Mattie Garrett vs. Eugene Garrett—Decree of divorce granted.
 Holt Manufacturing Co. vs. Geo. Strachan et al.—Order sustaining plaintiff's motion to strike certain and requiring defendants to separate and requiring their causes of action.
 Mary Poffenroth vs. William Schluting et ux.—Order of dismissal.
 McGregor Land and Live Stock Co. vs. C. H. Haskins—Order for publication of summons.
 Daniel Morgan et al. vs. Jacob Nelson et al.—Motion of defendant that complaint be made more definite and certain sustained by the court.
 A. J. Nelson vs. T. D. Lake et al.—Introduction of exhibits in the case and order of default.
 Walter C. Bungarner vs. J. H. Clarke—Order setting case for trial February 18, 1913.
 Anna M. Kieweno vs. Aaron Litzemberger et al.—Order appointing Henry Litzemberger guardian ad litem of Aaron and Christian Litzemberger, minors.

Criminal

State vs. Jess Vaughn—On motion of prosecuting attorney case dismissed, the evidence in hand appearing to be insufficient to secure a conviction.
 State vs. James Murray—Order to subpoena witnesses.
 State vs. Robert E. Fontaine—Order to endorse names of witnesses on information.
 State vs. Wm. Addler—Order to endorse names of witnesses on information.
 State vs. L. A. Scott—Order continuing case to March 22, to be called up at that time for setting.
 State vs. W. H. Sherrod—Trial by jury, verdict of acquittal; defendant discharged and bondsmen exonerated.

Probate

Estate of John F. Kelley—Order directing notice to creditors and order appointing H. W. Hanford, E. J. Trammill and Thomas Miles appraisers.
 Estate of Rebecca Jane McNall—Order setting time for proving will.
 Estate of Kittie McAmis—Letters of administration granted to W. C. McAmis; order directing notice to creditors and order appointing J. B. Mackey, R. P. Hill and J. R. Butcher appraisers.
 Estate of Mary F. White—Order confirming appraisement.
 Estate of Anthony Rieth—Letters of administration granted to Anthony Rieth Jr.
 Estate of Lois Spaulding—Order fixing time for settlement of final account, and order to show cause why distribution should not be made.
 Estate of Thomas Crowley—Order discharging administrator and releasing bond.
 Estate of Frank Dowling—Order allowing final account and decree of distribution.
 In the matter of the guardianship of John Carton—Order allowing accounts and order to pay claims.
 Estate of Elizabeth Gallagher—Order appointing John S. Gallagher administrator.
 Guardianship of Henry A. Yaisley et al.—Order discharging guardian as to Henry A. Yaisley, Alfred E. Yaisley and Stella P. Yaisley for the reason that they have each reached the age of majority, and releasing bond so far as it is affected by said wards.

Summons for Publication

In the Superior Court of the State of Washington in and for the County of Whitman.
 John P. Ramsey, plaintiff, vs. Alonzo O. Wells, defendant.
 The State of Washington to the said Alonzo O. Wells:
 You are hereby summoned to appear within sixty days after the date of the first publication of this summons, to-wit, within sixty days after the 17th day of January, A. D. 1913, and defend the above entitled action in the above entitled court, and answer the complaint of the plaintiff, and serve a copy of your answer upon the undersigned attorney for plaintiff, at his office below stated; and in case of your failure so to do, judgment will be rendered against you according to the demand of the complaint, which has been filed with the clerk of said court.
 The object of the above entitled action is to foreclose a mortgage made, executed and delivered by the above named defendant on the 6th day of May, A. D. 1910, to Henry Biernback, upon the following described lands situated in Whitman county, state of Washington, to-wit, the northwest quarter of section fourteen (14), in township twenty (20) north, of range thirty-nine (39) E. W. M., containing one hundred sixty acres more or less.
 JNO. I. MELVILLE,
 Attorney for Plaintiff.
 Postoffice address, Sprague, Lincoln county, Washington.
 Jan. 17-Feb. 23

SPRAYING CALENDAR FOR 1913

Pests and Diseases of the Apple, Pear, Peach, Plum, Cherry, Etc.

(POPULAR BULLETIN NO. 52)

Prepared by A. L. MELANDER, Entomologist, and H. B. HUMPHREY, Plant Pathologist

There is no spraying that will kill everything. Use the ones that fit your case. For information about insects, pests, plant diseases and spraying, write to the Washington State College, Pullman, Washington

AFFECTING THE ROOTS—		
NAME	DESCRIPTION	TREATMENT
1. Woolly aphis	Small galls containing mealy insects	Expose roots and wet with one per cent potassium cyanide solution or tobacco.
2. Grubs and wireworms	Feeding on the roots	No available spray treatment. Seek out and destroy insects.
3. Gophers	Feeding on the roots	Trap; or poison with raisins containing strychnine placed in runways.
4. Hairy-root	Excessive development of fine roots from some part of a larger root	No remedy except careful nursery inspection.
5. Crown gall	Smooth to warty swellings from size of a pea to that of a coconut	No remedy, except careful nursery inspection.
6. Crown-rot	Dead, sunken bark at crown of tree	Avoid forcing the growth of young trees.
AFFECTING THE CROWN OR TRUNK—		
7. Rabbits and field mice	Gnawing bark in winter	Keep trunk coated throughout winter with thick whitewash containing strong sulphur-lime.
8. Borers	Tunneling beneath bark or into heartwood	Keep trunk coated throughout summer with thick whitewash containing strong sulphur-lime.
9. Canker	Irregular, discolored sunken areas usually cracked around edges	No remedy when these cankers are due to winter injury. If black-spot canker, November spraying of 3° sulphur-lime.
10. Black-heart	Heartwood dead and stained blackish brown	No remedy known.
AFFECTING THE BRANCHES AND TWIGS—		
11. San Jose scale	Ash-gray or black, round scales, pinhead in size (Many broods a year)	Oil spray or sulphur-lime about March 1.
12. Oyster-shell bark-louse	Slender bark-colored scales filled with eggs, which hatch about June 1. (One brood a year)	1. Tobacco when young are hatching (about June 1). 2. Sulphur-lime (3°), or oil spray, in fall or spring.
13. Woolly aphis	Clusters of mealy lice, often near injured bark. When crushed give a red juice.	Tobacco spray.
14. Orchard mite eggs	Microscopic salmon-red spherical eggs	Oil spray.
15. Aphis eggs	Minute oval jet-black eggs (winter)	Oil spray or sulphur lime, 3°; or tobacco when plant-lice hatch.
16. Tent caterpillar eggs	Frothy mass encircling a twig	Oil spray, or arsenical when caterpillars hatch.
17. Lecanium	Hemispherical brown scales	Oil spray, or tobacco when scales hatch.
18. Cottony scale	Brown scales that develop cottony mass in the fall	Oil spray.
19. Cicada and tree cricket	Twigs slit to contain eggs	Prune off infested twigs before eggs hatch.
20. Bark beetle	Tunneling under bark	Not likely to attack vigorous trees. No immediate treatment.
21. Lichens	Popularly known as moss	Winter spray with sulphur-lime, 3°.
22. Gummosis of cherry	Glistening mass of amber-colored gum oozing from branches	Caused by scale, bacteria, aphids, over-irrigation, etc. Remedy depends on cause.
23. Fire-blight of pear and apple	Dead leaves and fruit hanging to blighted branches; blackish, water-soaked cankers	Prune away dead or blighting branches and wash pruned surfaces with 1 part of corrosive sublimate to 1000 parts of water.
24. Winter-kill or die-back	Death of twigs or branches from tip downward; no cankers	No remedy. Remove dead wood.
25. Peach blight	Spotting of green twigs and formation of a gum	Prune out dead twigs. Spray in winter with oil emulsion.
AFFECTING THE BUDS, NEW LEAVES, OR BLOSSOMS—		
26. Bud-weevils	Hard-shelled beetles that drop when disturbed	Use inverted cone tree-protector of stiff paper or tin.
27. Cutworms	Work at night; live in ground during day	Coat tree with Bordeaux. Place spoonful poison mash on ground near tree.
28. Ants	Eating buds, young leaves, and blossoms	Pour one per cent potassium cyanide solution in nest (deadly poison).
29. Budworm; twig-borer	Working in terminal growth furling leaves	1. Oil spray or sulphur-lime, 3°, when buds swell. 2. Arsenate lead when injury noticed.
30. Snapping beetle	Feeding in the blossoms	No treatment.
31. Chafer beetle	Eating through the blossoms	No treatment.
32. Salmon-fly	Feeding in the blossoms	Spray with arsenate lead.
33. Thrips	Minute, active, slender insects	Tobacco.
AFFECTING THE FOLIAGE—		
34. Tent caterpillars	Working from web-nests	Spray as soon as caterpillars appear with arsenite zinc, or burn with torch.
35. Tussock moth	Caterpillars covered with bunches of hairs	Spray as soon as caterpillars appear with arsenite zinc.
36. Red-hump caterpillar	Striped caterpillars with red head and collar	Spray as soon as caterpillars appear with arsenite zinc.
37. Grasshopper		Spray with Bordeaux.
38. Climbing cutworm		See No. 27.
39. Pear and cherry slug	Slimy caterpillars feeding on upper surface	Spray with arsenate lead; or dust with lime, ashes, or road dust.
40. Black aphid	On cherry	Spray early with tobacco.
41. Green aphid—Pink aphid		Tobacco (summer), or sulphur-lime, 3° (winter). See No. 15.
42. Blister-mite	Red, brown to black spots; on pear	No summer treatment. Oil spray or sulphur-lime when dormant.
43. Leaf hopper—Tingis	Sucking insects producing yellow spots in leaves	Tobacco spray. Use high pressure and disk nozzle to form mist.
44. Orchard mite	Causing leaves to yellow	Tobacco when noticed. See No. 14.
45. Peach leaf-curl	Leaves puckered, becoming rose-colored or purple	Spray in winter and early spring before leaves appear; use sulphur-lime.
46. Powdery mildew	Whitish patches on leaves twigs and fruit	Spray with 1 part commercial sulphuric acid to 1000 parts of water.
47. Rosette	Cessation of twig growth and massing of leaves in rosettes	No remedy known.
48. Shot-hole diseases	More or less regular brown spots on leaves, later falling out	Spray with sulphur-lime during dormant season.
AFFECTING THE FRUIT—		
I. Infesting the Outside of the Fruit:		
49. San Jose scale	Usually surrounded by red ring	No summer treatment. See No. 11.
50. Oyster-shell scale	Shaped like miniature mussel-shell	No summer treatment after scale is formed. See No. 12.
51. Caterpillars	Several species may nibble on skin	Arsenate of lead as soon as injury is noted.
52. Apple scab	Dull greenish-black patches on leaves and fruit	Spray with sulphur-lime, 1½°, just before blossoms open, and repeat after the petals fall. Destroy all dead and fallen, diseased leaves.
53. Brown rot of pines	Small circular brown spots, later giving rise to spore-tufts	Destroy all mummified fruits following an outbreak of the disease.
54. Fruit spot of apricot	Brown, hard sunken spots or elevations	No remedy known.
55. Baldwin speck; fruit spot	Skin spots appearing before harvest, working into fruit	No sure remedy known.
II. Infesting the Inside of the Fruit:		
56. Codling-worm	The common worm in apple or pear	Use bordeaux nozzle with a crook and spray with force from a raised platform directly into every flower. Repeat immediately. If so applied, these sprayings are usually sufficient. Keep a few trees banded. If many worms are trapped, spray. Write for codling moth bulletin.
57. Peach worm	Same insect as twig borer	No satisfactory summer treatment.
58. Apple saw-fly	Green caterpillar mining in fruit	No known treatment.
59. Water core		Do not leave too long on trees.

HOW TO SPRAY Spray thoroughly. Direct your attention to the hardest places to reach. Cover every surface. Wet behind the buds. Reach the bottom of every crack. Fill the lower calyx cup. Do not try to economize on spray. For all orchard spraying use a high pressure pump (at least 200 lbs.) Use bordeaux nozzles only. Use an 8-ft. spray rod. Have a crook to set the nozzles at an angle of forty-five degrees. Spray from a tower if the trees are beyond your reach. Write for bulletin on spraying.

Sulphur-Lime		Oil Spray		Arsenate of Lead	
Sulphur	1 pound	Crude oil emulsion for winter spraying:		Arsenate of lead (poison)	1 pound
Fresh stone lime	½ pound	Fish-oil soap	10 pounds	Water	50 gallons
Water	½ gallon	(Dissolved in 10 gal. hot water)		For newly hatched insects it is not necessary to use it stronger. For old or large insects use double the quantity. Mix the paste well with a small amount of water. Powdered arsenate of lead is about twice as strong as the paste. Do not use arsenate that settles quickly or feels gritty.	
Slake the lime in the cooker. Add the sulphur and the water. Boil briskly till the sulphur is dissolved (about 45 minutes), stirring continuously and keeping the cooker covered. As it boils down keep adding water. When finished let settle. Use only the clear liquid, which may be stored if kept from the air. Prepared in this way sulphur-lime should have a hydrometer reading of about 26 degrees, but little weaker than the factory-made product. Write for bulletin on sulphur-lime.		Lye	2 pounds	Arsenite of zinc powder is about four times as strong as paste lead. It may scorch in a damp season.	
For use, any concentrated sulphur-lime may be diluted according to the following table:		(Dissolved in 1 gal. water)		Spraying Program for the More Usual Sprayings	
Hydrometer test of concentrate		Mix, add water to make 88 gal., run agitator at full speed, and add		1. When buds begin to swell	
Beaume	Specific Gravity	Crude oil	10 gallons	Oil spray or sulphur-lime (3°)	
		When emulsified do not add anything else to the spray-liquid, or free oil will separate.		For scales and insect eggs	
		Tobacco		2. When new foliage is first appearing	
		Blackleaf 40	12½ pounds	Tobacco	
		Fish-oil soap	35 pounds	For aphid, orchard mites, thrips, leaf-hoppers	
		Water	1000 gallons	With arsenate added	
		Dissolve the soap in hot water. Blackleaf (old style) is one-tenth as strong.		For budworm, twig-borer	
		For orchard mites or scab add 36 gallons of 32° sulphur-lime.		3. When flower clusters are ready to open	
		Bordeaux		Sulphur-lime (1.5°)	
		Bluestone	6 pounds	For apple and pear scab	
		Good lime	4 pounds	With tobacco added	
		Water	50 gallons	For orchard mites, thrips, aphid	
		Dissolve the bluestone by suspending it in a sack in 25 gallons of water in a barrel. Slake the lime in another vessel, adding a little water slowly, and dilute to 25 gallons. Mix the two thoroughly. Even the best Bordeaux may scorch in rainy weather.		4. When last petals are falling	
		Poison Mash		Arsenate of lead, 1 lb. to 50 gal.	
		Bran or flour	25 parts	For codling moth.	
		Paris green or zinc arsenite	1 part	5. In November (for Western Washington)	
		Mix dry, add water to form a stiff mash and season with stale beer or molasses.		Sulphur-lime (3°)	
				For black-spot canker and general clean-up	
				Additional summer sprayings may be needed, as for codling moth, aphid, young oyster shell scales, orchard mites, etc.	

<p>IF WOMEN ONLY KNEW</p> <p>What a Heap of Happiness It Would Bring to Pullman Homes</p> <p>Hard to do housework with an aching back. Brings you hours of misery at leisure or at work. If women only knew the cause—that Backache pains often come from weak kidneys,</p>	<p>'Twould save much needless woe. Doan's Kidney Pills are for weak kidneys. Read what a Pullman citizen says: Mrs. W. H. Hammond, 501 Paradise St., Pullman, Wash., says: "There was a dull, nagging pain across the small of my back and the least exertion tired me. I did not have much ambition and I often noticed that the kidney secretions were unnatural. Seeing Doan's Kidney Pills advertised, I was led to</p>	<p>try them and the contents of the first box brought such great relief that I continued using them until completely cured. I shall always speak a good word for Doan's Kidney Pills." For sale by all dealers. Price 50 cents. Foster-Milburn Co., Buffalo, New York, sole agents for the United States. Remember the name—Doan's—and take no other.</p>	<p>Engfers Carpet Works</p> <p>We make beautiful fluff rugs of your Brussels and Ingrains, also rag rugs and carpets. In addition we do cleaning with a powerful vacuum cleaner. First class work only. Phone 243. Two blocks north of Vinegar Factory.</p> <p>WANTED—A good cook. Apply at 704 Campus avenue, or phone 183 R. Feb14/13</p>	<p>Special prices on Dry Cleaning.</p> <p>Until March 1st, ladies' plain skirts, dry cleaned and pressed, 75c, ladies' plain suits, \$1.50. Men's suits, dry cleaned and pressed, \$1.50; dyed and pressed, \$3.00. We pay return postage. Write for Dry Cleaning and Laundry price list. Money must accompany order.—Ideal Laundry Co., Spokane. feb 7-23</p> <p>The Pullman Herald \$1.00 per year.</p>
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