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January 1965

E.M. 2109 (Revised)

POTATO INSECT CALENDAR

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by
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Month	Pests That Treat- ments May be Re- quired For	Possible Damage if Soil or Crop is not Treated	Insecticide and Amount of Active Ingredient Per Acre	Time or Frequency of Application
Apply in August for control the following spring.	WIREWORMS	Worms damage seed and infest the tuber.	DDT, 10 lbs.	Apply broadcast and thoroughly mix in top 6-9 inches of soil. Repeat every 5-7 years or when wireworms average 1 per sq. ft. <u>Treat only new land or land not previously treated</u> with chlorinated soil insecticides within the last 4-5 years.
Spring or fall when soil temperature is above 45° F. (two weeks prior to planting).			Ethylene dibromide (83% concentration) 3 gals.	Apply without dilution with equipment constructed to deliver low volume. If such equipment is not available, dilute 3 gals. ethylene dibromide with 7 gals. stove or fuel oil. Inject with plow sole, chisel, sweep or blade applicator. If chisel equipment is used, spacings should not exceed 12 inches. <u>Do not use</u> row or side dressing application of any insecticide or fumigant for wire- worm control. Where Telone has been applied at the rate of 25 gals. per acre for the control of root knot nematode, or the garden symphytan, effective control of wireworms in the soil at treatment time should also be obtained.
Spring planting (Treatment not effective before April 1 or after August 31. Apply insecticide to soil prior to planting.)			Parathion 4 lbs.	Broadcast 40 lbs. of 10% parathion granules per acre and thoroughly mix in top 6-9 inches of soil.

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Spring planting (Treatment not effective before April 1 or after August 31. Apply insecticide to soil prior to planting.)	WIREWORMS Cont'd.		Diazinon 3-4 lbs.	Broadcast 60-80 lbs. of 5% Diazinon granules per acre and thoroughly mix in top 6-9 inches of soil.
Spring or fall when soil temper- ature is above 45° F. (Two or three weeks prior to planting.)	GARDEN SYMPHYLAN		Telone, 25 gals. or D-D 30 gals.	On heavily infested land, fumigate with Telone or D-D. For annual crops on light sandy soils, use 25 gals. Telone or 30 gals. of D-D per acre. The soil temperature at the time of treatment should be at least 45° F. and preferably 50°F. In addition, have the soil in a seedbed condition containing the right amount of moisture. Very wet or very dry soil conditions are undesirable for good fumigation. Do not treat extremely heavy soils.
	FLEA BEETLES	Adults injure leaves. Worms damage tubers.	DDT* 1-1½ lbs. Endosulfan 1 lb. (Thiodan)	Apply to foliage when the adults average 2 per 10 sweeps. Present in Yakima and Kittitas Counties.
June to Aug.	APHIDS	Reduce yields; in- directly cause of net necrosis.	Endosulfan 1 lb. (Thiodan) Di-syston 2½ lbs.	Start treating foliage June 1r and con- tinue every 2 weeks to at least August 1. Apply 25 lbs. of 10% granules in bands at planting time or delay application to February-April plantings until May 1-15 and then apply as side dress. Do not side dress after May 20. Apply at plant- ing time in western Washington. Addition- al foliage treatments with endosulfan may be required starting 40-60 days after the soil treatment. Do not apply Di-syston later than 75 days before harvest.

Month	Pests That Treatments May be Required For	Possible Damage if Soil or Crop is Not Treated	Insecticide and Amount of Active Ingredient Per Acre	Time or Frequency or Application
May to June	CUTWORMS	Cut off plants below and above ground.	DDT, 2 lbs.	Apply to soil and foliage when cutworms first appear.
June to August	LYGUS BUGS	Adults cause top leaves to wilt and die.	DDT, 2 lbs. Parathion, 12 ozs. Endosulfan, 1 lb. (Thiodan)	Apply to foliage as needed; insects migrate when alfalfa hay is cut or weeds die from drought. Do not apply parathion within 5 days of harvest.
June to October	LEAFHOPPERS	Can reduce yields or spread virus diseases	DDT, 1½ lbs. Parathion, 12 ozs. Endosulfan 1 lb. (Thiodan)	Start about June 15, or when leafhoppers first appear and continue every 10 days as needed. Do not apply parathion within 5 days of harvest.
July to October	IRIS WHITEFLY	Larvae weaken plants.	DDT, 1½ lbs. Endosulfan, 1 lb. (Thiodan)	Start about July 1 or when adults first appear and continue every 10 days as needed.
July to August	THRIPS	Adults and larvae scar lower side of leaves.	DDT, 1½ lbs.	Apply to foliage when thrips have started noticeable injury.
May to August	COLORADO POTATO BEETLE	Adults and larvae strip plants and lower yields.	DDT, 1½ lbs. Endosulfan, 1 lb. (Thiodan)	Apply to foliage when larvae outnumber egg masses and repeat when necessary. Destroy black nightshade.
July to August	BLISTER BEETLES	Adults consume the leaves.	DDT, 1½ lbs. Dibrom, 1 lb.	Apply control measures to foliage quickly, treat only infested areas.
July to September	GRASSHOPPERS	Insects devour leaves and stems.	Toxaphene, 1½ lbs. Malathion 8-12 ozs.	Apply to adjacent, infested, uncultivated land or 6-foot noncrop border of field. Use in sufficient water to wet vegetation.
July to August	SPIDER MITES	Mites kill leaves; web leaves with silk.	Parathion + 12 ozs. sulfur dust Trithion, 1 lb. Kelthane, 1 lb.	Apply to foliage when mites appear or not later than start of damage. Do not use more than 50 lbs. sulfur dust per acre. Do not apply parathion within 5 days of harvest. Do not use more than 50 lbs. sulfur dust per acre.

*DO NOT FEED CULLED POTATOES TO DAIRY ANIMALS.

DO NOT FEED TUBERS FROM FIELDS WITH TREATMENTS OF DDT TO LACTATING COWS.

THE USDA IS NOT ACCEPTING NEW REGISTRATIONS FOR ALDRIN AND DIELDRIN ON POTATOES.

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