For further information, contact your county Extension agent.

¹Due to variation in the concentration of pesticides in different products, refer to the label for the specific rate per 1-gallon spray solution.

WP = wettable powder

EC = emulsifiable concentrate

DF = dry flowable

Table. 1 Homeowner's spray schedule for pecans.				
Timing	Pest	Pesticide	Rate/ 1 gal. water ¹	Remarks
Dormant season (winter)	Insects			
8	Scale insects, phylloxera	97% oil emulsion	1/4 - 1/3 pt.	Spray tree trunks and branches thoroughly.
Budbreak (just as the buds	Nutritional			
begin to split and show green color)terminal bud growth should be 2 inches in length.	Rosette	Zinc sulfate WP or Zinc nitrate (NZN) liquid	2 tsp.	Zinc sprays are essential for early applications will give best response. Elemental zinc is toxic to most plants other than pecans and possibility, do not use zinc sulfate near peaches, plums, nectarines, apricots or other zinc-sensitive plants. Do not use any zinc product at higher than labeled rates since foliage burn can result. When applying more than one zinc spray in 2 weeks, reduce rate by one-half. Never spray young trees that are not actively growing. trees that are not actively growing.
	Phylloxera	Malathion 50% EC (several formulations)	2 tsp.	If dormant oil was not used, then treat trees where a history of phylloxera damage indicates a need for control.
Budbreak	Diseases Scab and other foliage and nut diseases	Benomyl (Benlate 50% WP)	1/2 - 1 Tbs.	
		Thiophanate-	1/2 - 1 Tbs.	

methyl (Topsin-

M® 70% WP)

Pre-pollination (when leaves are one-third grown and before pollen is shed)-mid-April

Nutritional

Rosette

Same as for budbreak

Diseases

Scab and other foliage Same as for budbreak

and nut diseases Insects

Fall webworm

Bacillus thuringiensis Refer to label.

Repeat sprays as pest problem recurs.

Walnut caterpillar (several formulations)

or

Malathion® 50% 2 tsp.

EC (several formulations)

or

Carbaryl

Refer to label.

(Sevin® liquid, several

formulations)

Pollination (when casebearer eggs appear on tips of nutlets)--May

Nutritional

Rosette

Same as for

budbreak

Insects

Pecan nut casebearer Same as for

pre-pollination

Apply during egg hatch. (Consult your county Extension agent for precise

local timing.)

Diseases

Scab and other foliage and nut

Same as for budbreak

October 15 to December 1

Diseases

curl

Peach leaf

Copper

Refer to

Spray to run-off. Apply during

dormant season.

hydroxide label.

(several

formulations)

or

Chlorothalonil

Refer to

(several

label.

formulations)

Organic Disease Management

Peaches, Plums, Nectarines, and Apricots - Use sulfur fungicides throughout the spray program. Decrease application interval to shortest interval allowed. Shortened intervals are important during the late bloom, shuck split and first cover period and again during the preharvest period. These are periods when fruit diseases are most damaging.

Pecans - Copper sulfate is considered an organic fungicide and some formulations are approved for use on pecans to control pecan scab and other foliage diseases. Copper sulfate is highly toxic to fruit trees such as peaches, plums, apricots and nectarines, and to some ornamental plants. Be careful when using this product around sensitive plants if there is a possibility of drift.

General Considerations - Most plant diseases require that the leaf, fruit or nut remain wet for a certain length of time for infection to occur. The following precautions should be taken to reduce the length of time the plant is wet following dew or rainfall: (1) prune trees to allow sunlight to penetrate the leaf canopy; (2) space trees to allow for air circulation; (3) plant trees in an area that will receive early morning sun and where air circulation will not be blocked by buildings or other plants; and (4) avoid wetting the tree during irrigation.

Select varieties that have natural resistance to the major diseases of your area. Resistance does not mean immunity to infections, but fungicide applications are usually more effective on plants with some resistance.

diseases

Second generation	Insects			
casebearer (42 days after	Pecan nut	Same as for		
first casebearer spray)	casebearer	pre-pollination		
	Aphids			Treat yellow aphids when an average of 25 per compound leaf are found or when excessive honey dew is
		or		produced. Repeated use of insecticides
		Malathion [®]	2 tsp.	can result in strains of aphids
		50% EC		that are resistant to insecticides.
		(several		This can result in increased losses.
		formulations) or		
		Cygon® 2 EC	Refer to	
		0)80m = 20	label.	
	Diseases			
	Scab and	Same as for		Additional sprays at 10- to 14- day
	other foliage	budbreak		intervals may be required during
	and nut			extended periods of rainfall or high
	diseases			humidity.
	Diseases			
Cover sprays	Scab	Same as for		Number of cover sprays is based
		budbreak		on weather conditions, variety and
				presence of scab fungus. Maintain
				spray applications as long as weather
Water stage (when inside	Diseases			conditions favor disease development.
of the nut begins to fill	Scab and other	Same as for		Treat where there is a history of
with liquid) mid- to late	foliage and nut	budbreak		disease or during periods of rainfall
July	diseases	budbicak		or dew.
Half-shell hardening	Insects			or dow.
mid- to late August	Aphids	Same as for		Treat yellow aphids when an average
THE TO AND LINGUIS	1 10 10000	aphids listed		of 25 per compound leaf are found
		above		or when excessive honeydew is
				produced and aphid populations persist
	77. 1	0 1 1	D C .	I F I F I F I F I F I F I F I F I F I F

Carbaryl

several

(Sevin® liquid,

Refer to

label.

Hickory

shuckworm

formulations)

Half-shell hardening	Insects				
(continued)	Pecan weevil	Carbaryl (Sevin® liquid, several formulations)	Refer to label.	Treat areas with weevil infestation. treatments at are needed for infestations.	a history of pecan One to three 10- to 14- day intervals heavy weevil
	Diseases				
	Scab and other		Same as for		
0	foliage and		budbreak		

nut diseases

Timing	Pest	Pesticide	Rate/ 1 gal. water	Remarks
Dormant season	Insects			
	Scale insects	97% dormant oil	1/4 pt.	Apply when temperature is between 40 and 70 degrees F. Use only once. Apply only if scale is observed.
Late dormant	Diseases			
	Peach leaf curl	Chlorothalonil (several formulations)	Refer to label for specific rate.	Apply if fall applications of copper fungicide were not made.
Petal-fall (when flower	r Insects			
petals begin to fall) 5 days after bloom	Plum curculio	Malathion 50% EC (several formulations) or	2 1/2 tsp.	Apply when 75 percent of petals have fallen, and there is a history of insect damage.
		Carbaryl (Sevin® liquid, several formulations) or	Refer to label.	
	Peach twig borer			The peach twig borer usually is a problem only in the West Cross Timbers area.
	Lesser peach tree borer	Endosulfan (Thiodan 9.7%	2 Tbs.	Make two applications approximatel 3 weeks apart. Thoroughly wet tree

Petal-fall (continued)	Diseases			
	Scab	Captan® 50% WP	2.66 Tbs.	Treat where there is a history of disease problems.
		or Sulfur 97% WP	8 Tbs.	
		or	0 105.	
		Benomyl (Benlate® 50% WP)	1.5-2.25 Tbs.	
		or		
		Thiophanate- methyl (Topsin-M®	1.5-2.25 Tbs.	
		70% WP)		
		or		
		Chlorothalonil		
		(same as		
		dormant)		
Shuck split (when the	Insects			
calyx separates from	Catfacing	Same		Treat where there is a history of cat-
base of newly formed	insects,	insecticides as		facing insects and/or plum curculio.
fruit)14 days after bloom	plum curculio	for petal fall		
	Diseases			
	Scab	Same		
		fungicides as		
		for petal fall		
First cover (30 days	Insects			
after bloom)	Catfacing	Same as for		
	insects,	petal fall		
	plum			
	curculio			
	Diseases	G	0.7.5	m
	Scab	Captan 50%	2.7 Tbs.	Treat where there is a history of
		or Sulfur 97% WP	8 Tbs.	disease problems.
Cover sprays (repeat at	Insects	Saliai 7/70 WF	0 103.	
14-day intervals)	Catfacing	Same		
	insects	insecticides as		

for petal fall

Diseases

Brown rot

Captan 50%

2.7 Tbs.

WP

or

Sulfur 97% WP 8 Tbs.

Pre-harvest	Insects			
(For early-maturing varieties and during periods of frequent rain or dewspray 3 weeks, 2 weeks and 3 days prior to picking. For	June beetles	Carbaryl (Sevin® liquid, several formulations)	Refer to label.	
mid- to late-maturing	Diseases			
varietiesspray at 2 weeks and at 3 days prior to picking.)	Brown rot	Benomyl (Benlate [®]) 50% DF or	1.5-2.3 Tbs.	Do not apply within 3 days of harvest.
		Thiophanate- methyl (Topsin M [®] 80% WP) or	1.5 -2.3 Tbs.	Can be applied on day of harvest. Wash all of fruit before eating.
		Funginex® (several formulations)	Refer to label.	Not approved on plums in preharvest period.
Post harvestmid-to late	Insects			
August	Peach tree borer	Chlorpyrifos (Lorsban® 12.9%)	2 Tbs.	Thoroughly wet from base of tree up to first scaffold limbs.
		or Lindane (Lindane® 20% EC)	1 Tbs.	
		or Endosulfan (Thiodan® 9.7% EC)	2 Tbs.	