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Commercial Peach-Nectarine Insect and Disease Control 2014

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In the following table, the quantity of materials to use to apply to peaches and nectarines is given as amount per acre, which is the amount of spray volume needed to cover one acre of well pruned, standard size trees. Determine the amount of water being used per acre on your trees then add the rate of the chemical listed below in the rate/acre column to the amount of water. Always read the label carefully for any restrictions. In Oklahoma, applications are commonly

made using 20 to 150 gallons per acre. How effective this range in spray volumes will be is determined by several factors including: tree sizes, tree densities, canopy density, and type of nozzles. Air blast sprayers normally require amounts on the higher end of this scale. Irrespective of the amount of liquid per acre applied; use the amount of chemical per acre as a guide for mixing.

CR-6240

		Amount of Mat	erials Neede	ed	
Application and Timing	Pests Involved	Material (Group)*	Per Acre	Comments	
LATE FALL: Apply in October-November when the temperature is above 40 F.	Peach Leaf Curl	Bravo Kocide DF (M4)	3-4 pts 8-16 lb	Apply amount of chemical in a minimum of 150 gallons per acre.	
DORMANT: Apply when the trees are dormant and the temperature is above 40 F. Apply fungicides in spring before buds begin to swell.	San Jose Scale	Esteem 0.86EC (7D Lorsban 4E ^r (1B) (Can also be used with oil). Movento(23) Pasada 1.6F (4A) Superior oil*	0)13-16 oz 1.5 pt 6.0-9.0oz 4.0-8.0 oz 2-4 gal	For Peach leaf curl and/or scale insect control apply a minimum of 150 gallons of liquid per acre.	
	Forbes Scale	Dormant oil* Lime Sulfur¹ (M4) Superior oil*	4.5-6 gal See label 2-4 gal	Oils can be applied before buds break. If buds are just beginning to open (1-5% bud swell), adjust rates downward (e.g., 1.5 gals/A).	
	Peach Leaf Curl	Bravo Kocide DF (M4) Ziram 76DF (M4)	3-4 pts 12-24 lb 3.75-6 lb		
PRE-BLOOM OR EARLY BLOOM: Flower buds show pink.	Tarnished plant bug Peach twig borer	Adjourn'(3) Asana XL ^r (3) BaythroidXL'(3) Beleaf 50SG (9C) DelegateWG(5) Dipel ES (11B2) Javelin WG (11B2)	4.8-14.5oz 4.8-14.5 oz 2.0-2.8oz 2.0-2.8 oz 3-7oz 1-4 pt 0.25-4 lb	Plant bugs and aphids only. Javelin is for Peach twig borer only.	
		Lorsban 4Er (1B2) Mustang-Maxr (3) Pasada 1.6F (4A) Pounce 3.2 ECr (3) (peaches only) Silencer(3)	1.5 pt 1.28-4.0 oz 4.0-8.0 oz	Pasada is for tarnished plant bug, san jose scale, green june beetles and aphids. Can cause suppression of stink bugs and plum curculio. PTB only.	

	Amount of Materials Needed					
Application and Timing	Pests Involved	Material (Group)	Per Acre	Comments		
(cont'd)	Stink bug	Mustang-Max ^r (3) Silencer ^r (3)	1.28-4.0 oz 2.5-5.12oz	PTB only		
	Brown Rot, Blossom Blight	Abound (11) Bravo Captan 50WP (M4) Elite 45DF (3) Funginex (3) Indar 75 WSP (3) Nova 40W (3) Orbit (3) Rovral 4F (2) Topsin-M 70W (1) Vangard W (9) Ziram 76DF (M4)	6.2-9.2 oz 3-4 pts 4-8 lb 4-8 oz See label 2 oz 6 oz 4 oz 1-2 pt 1.5-2.25 lb 5 oz 4.5-8 lb	DO NOT make more than 2 applications per seasor		
FULL BLOOM: 50% - 100% bloom.	Brown Rot, Blossom Blight			Same as PRE-BLOOM OR EARLY BLOOM		
PETAL FALL SPRAY: Apply when 50 to 75% of the petals have fallen. Insecticide and fungicide materials may be combined starting with Petal Fall and continuing through cover sprays (read and follow all label directions.	Plum Curculio	Adjourn'(3) Asana XL' (3) BaythroidXL'(3) Imidan 70WP (1B) Mustang-Max' (3) Pounce' ² (3) (peaches only) Silencer'(3) Warrior' 1EC (3)	4.8-14.5 oz 4.8-14.5 oz 2.4-2.8 oz 2.125-4.25 lb 1.28-4.0 oz 4-16 oz 2.5-5.12 oz	See notes on monitoring for plum curculio at end of section.		
	Tarnished plant bug	Adjourn'(3) Ambush' 2E (3) (peaches only) Asana XL' (3) Beleaf 50SG (9C) Lannate LV' (1A) (peaches only) Mustang-Max' (3) Pasada 1.6F (4A) Pounce 3.2EC' ² (3) (peaches only)	4.8-14.5oz 6.4-19.2 oz 4.8-14.5 oz 2.0-2.8 oz 3-6 pts 1.28-4.0 oz 4.0-8.0 oz 4-16 oz			
	Brown Rot and Scab	Abound (11) Bravo Captan 50WP (M4) Elite 45DF (3) Funginex (3) Indar 75 WSP (3) Nova 40W (3) Orbit (3) Rovral 4F (2) Topsin-M 70W (1) Ziram 76DF (4)	6.2-9.2 oz 3-4 pts 4-8 lb 6 oz See label 2 oz 6 oz 4 oz 1-2 pts 1.5-2.25 lb 4.5-8 lb	Brown rot only DO NOT make more than two applications per season		
SHUCK-SPLIT: Apply when approximately three-fourths of shucks have split and are shedding about 7 to 10 days after Petal Fall.	Plum Curculio or Oriental fruit moth* (see footnote at end of section)	Intrepid 2F (18) Adjourn'(3) Ambush 2E' (3) (peaches only) Asana XL' (3) Imidan 70WP (1B) Mustang-Max' (3) Pounce 3.2EC' ² (3) (peaches only)	10-16 oz 4.8-14.5 oz 6.4-19.2 oz 4.8-14.5 oz 2.125-4.25 lb 1.28-4.0 oz 4-12 oz	Intrepid is for oriental fruit moth and other caterpillar pests only.		

Application and Timing	Amount of Materials Needed				
Application and Tilling	Pests Involved M	laterial (Group)	Per Acre	Comments	
SHUCK-SPLIT: (cont'd)		Silencer ^r (3)	2.56-5.12 oz		
		Warrior 1EC (3)	2.56-5.12 oz		
	Tarnished plant bug	Adjourn ^r (3)			
	ramionou plant bug	Ambush 2E ^r (3)	6.4-19.2 oz		
		(peaches only)			
		Asana XL ^r (3)	4.8-14.5 oz		
		BaythroidXLr(3)	2.0-2.8 oz		
		Beleaf 50SG (9C)	2.0-2.8 oz		
		Lannate LVr (1A)	3-6 pt		
		(peaches only)	100.10		
		Mustang-Max ^r (3)	1.28-4.0 oz		
		Pasada 1.6F (4A) Pounce 3.2EC ^{r2} (3)	4.0-8.0 oz		
		(peaches only)	4-12 02		
		(podooo oy)			
	Stink bug	BaythroidXL ^r (3)	2.0-2.8oz		
		Lannate LV ^r (1A)	3-6 pt		
		(peaches only) Silencer ^r (3)	2.56-5.12 oz		
		5(0)	00 0.12 02		
CHICK CDI IT: Apply where	Prougn Dot and Cash	Abound (11)	60000		
SHUCK-SPLIT: Apply when	Brown Rot and Scab	Abound (11) Bravo	6.2-9.2 oz 3-4 pts	Prays should not be applied after shuck split	
approximately three-fourths of shucks have split and		Captan 50WP (M4)		Bravo should not be applied after shuck split.	
are shedding about 7 to		Elite 45DF (3)	4-6 oz	Brown rot only	
10 days after Petal Fall.		Funginex (3)	See label	Brown rot only	
		Indar 75 WSP (3)	2 oz	,	
		Nova 40W (3)	6 oz	Brown rot only	
		Orbit (3)	4 oz	Brown rot only	
		Topsin-M 70W (1)	1.5-2.25 lb		
		Ziram 76DF (M4)	4.5-8 lb		
	Bacterial Leaf and	Mycoshield		See label	
	Fruit Spot				
		Adjourn ^r (3)	4.8-14.5oz		
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3)	4.8-14.5oz 6.4-19.2 oz		
COVER SPRAYS: Apply	Fruit Spot Peach twig borer (PTB)	Ambush 2E ^r (3) (peaches only)	6.4-19.2 oz		
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2E ^r (3) (peaches only) Asana XL ^r (3)	6.4-19.2 oz 4.8-14.5 oz		
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz		
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2E ^r (3) (peaches only) Asana XL ^r (3)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz	-NA	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for O	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2) Lannate LVr (1A) (peaches only) (OFM only)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb 3-6 pt	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2) Lannate LVr (1A) (peaches only) (OFM only) Lorsban 4Er (1B)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2) Lannate LVr (1A) (peaches only) (OFM only) Lorsban 4Er (1B) (PTB only)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb 3-6 pt 1.5 pt	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2) Lannate LVr (1A) (peaches only) (OFM only) Lorsban 4Er (1B) (PTB only) Mustang-Maxr (3)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb 3-6 pt 1.5 pt 1.28-4.0 oz	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2) Lannate LVr (1A) (peaches only) (OFM only) Lorsban 4Er (1B) (PTB only) Mustang-Maxr (3) Pounce 3.2ECr2 (3)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb 3-6 pt 1.5 pt	FM	
COVER SPRAYS: Apply	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2) Lannate LVr (1A) (peaches only) (OFM only) Lorsban 4Er (1B) (PTB only) Mustang-Maxr (3) Pounce 3.2ECr2 (3) (peaches only)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb 3-6 pt 1.5 pt 1.28-4.0 oz 4-12 oz	FM	
SECOND AND LATER COVER SPRAYS: Apply at 10 to 14 day intervals.	Peach twig borer (PTB) or Oriental fruit	Ambush 2Er (3) (peaches only) Asana XLr (3) BaythroidXLr(3) DelegateWG(5) Dipel ES (11B2) Entrust (5) Imidan 70WP (1B) Intrepid 2F (18) Javelin WG (11B2) Lannate LVr (1A) (peaches only) (OFM only) Lorsban 4Er (1B) (PTB only) Mustang-Maxr (3) Pounce 3.2ECr2 (3)	6.4-19.2 oz 4.8-14.5 oz 2.4-2.8 oz 3-7 oz (6-7 oz) for Ol 1.25-2.5 oz 1-4 pts 2.125-4.25 lb 8-16 oz 0.25-4 lb 3-6 pt 1.5 pt 1.28-4.0 oz	FM	

Amount of Materials Nee				ded	
Application and Timing	Pests Involved	Material (Group)	Per Acre	Comments	
	Tarnished plant bug	Adjourn'(3) Ambush 2Er (3) (peaches only)	4.8-14.5oz 6.4-19.2 oz		
		Asana XL ^r (3)	4.8-14.5 oz		
		BaythroidXL ^r (3)	2.0-2.4 oz		
		Beleaf 50SG (9C)	2.0-2.8 oz		
		Lannate LV ^r (1A) (peaches only)	3-6 pt		
		Mustang-Maxr (3)	1.28-4.0 oz		
		Pasada 1.6F (4A) Pounce 3.2EC ² (3)	4.0-8.0 oz 4-12 oz		
		(peaches only) Sevin 4F (1A)	4-5 qts		
	Peach tree borer	Adjourn ^r (3)	4.8-14.5 oz	See discussion at end of section.	
		Asana XL (3) Lorsban 4Er (1B) Mustang-Maxr (3) Silencer (3) Warrior 1EC (3)	4.8-14.5 oz 3 qts 1.28-4.0 oz 2.56-5.12 oz 2.56-5.12 oz		
Read label and follow instructions regarding maximum number of spray applications permitted near harvest.	Brown Rot and Scab	Abound (11) Captan 50WP (M4) Funginex (3) Indar 75 WSP (3) Nova 40W (3)	6.2-9.2 oz 4-8 lb See label 2 oz 6 oz	Brown rot only Brown rot only	
		Orbit (3) Topsin-M 70W (1) Ziram 76DF (M4)	4 oz 1.5-2.25 lb 4.8-8 lb	Brown rot only	
Apply weekly.	Bacterial Leaf and Fruit Spot	Mycoshield		See label	
JUNE AND SUMMER SPRAYS:	Mites	Acramite 50WS (25) 0.75-1.0 lb Onager 1EC (10A) 12-24 oz Vendex 50WP ^r 1-2 lb (12B)			
PRE-HARVEST: (3 weeks before harvest)	Brown rot	Indar 75 WSP (3) Nova 40W (3) Orbit (3) Topsin-M 70W (1)	2 oz 6 oz 4 oz 1.5-2.25 lb	7-10 day interval 7-10 day interval 1-2 applications 1-2 applications	
HARVEST:	Green June Beetles	Pasada 1.6F (4A) Sevin 4F (1A) Silencer'(3)	4.0-8.0 oz 4-5 qts 2.56-5.12oz	See label for additional restrictions.	

Restricted Use Pesticide.

Chemical group classifications can be found at the following Web sites: Herbicides-http://www.plantprotection.org/hrac/; Insecticides-http://www.irac-online.org/; and Fungicides-http://www.frac.info/.

¹ Do not apply during periods of high temperature or injury to foliage may occur.

² Do not apply more than 3.0 pounds active ingredient per acre per season.

^{*} Isomate-M or Checkmate-M pheromone dispensers may be used for oriental fruit moth (OFM) control, but must be attached to trees before first adult flight. Hang in branches at 400 ties/A.

MOA Group Tables start on page 46 of E-834 Extension Agent's Handbook of Insect, Disease and Weed Control.

GREATER PEACHTREE BORER CONTROL: In mid-May, apply 3 quarts Lorsban 4E in 100 gallons of water to trunks. Spray the trunks thoroughly from the large branches to the ground line (1.5 to 2 feet). Asana or Warrior applications in September are also effective in controlling Lesser Peachtree Borer. Do not spray the fruit or leaves with Lorsban.

Lorsban 4E may also be used as a preplant dip application for nonbearing peach trees at the equivalent application rate of 3 qts/100 gallons of water. Dip trees several inches above the grafting bud scar and plant immediately.

For detailed instructions see Fact Sheet EPP-7319, "Home Tree Fruit Production and Pest Management."

ORIENTAL FRUIT MOTH: The earliest indication of injury by this insect is similar to that of the peach twig borer and consists of a "dying-back" of new growth in the spring. The worms found burrowing in the twigs are pinkish or creamywhite with brown heads. One larvae/10 terminals/tree should be considered an economic infestation. Later generations of the worm enter the fruit near the stem before the fruit ripens.

The fruit may look perfect at the time of harvest, but breaks down shortly after packing.

PLUM CURCULIO: Early detection of this important pest should be conducted using pyramid or screen traps to monitor for adult weevils. The construction and utility of these traps for this purpose are outlined in OSU Fact Sheet #7190 - "Monitoring Adult Weevil Populations in Pecan and Fruit Trees in Oklahoma."

BACTERIAL SPOT: The disease attacks the leaves, fruits and stems. There is a varietal difference in susceptibility. For detailed information on using pesticides safely, see Extension Fact Sheet EPP-7450, "Pesticides Can Be Used Safely," and Extension Fact Sheet EPP-7457, "Toxicity of Pesticides."

POST HARVEST: Scholar Fungicide is labeled to be used for control of post harvest diseases.

Table 1. Limitations — Number of Days Before Harvest. Days from last application to harvest.

CHEMICALS*	PEACHES	NECTARINES	CHEMICALS*	PEACHES	NECTARINES
Abound	0	0	Lannate LV ^r	4	_
Adjourn ^r	14	14	Lorsban ^r	14	14
Ambush ^r	5	_	Movento	7	7
Apollo SC	21	21	Mustang-Max ^r	14	14
Asana XL ^r	14	14	Mycoshield	21	_
BaythroidXL	7	7	Nova 40W	0	0
Beleaf 50SG	14	14	Onager	28	28
Bravo	N/A	N/A	Orbit	0	0
Captan	0	0	Pasada	0	0
Carzol	21	14	Pounce ^r	7	0
Delegate	14	14	Phaser 50W	30	30
Dipel	0	0	Pyramite 60WP	7	7
Elite 45 DF	0	0	Rovral 4F	**	**
Entrust	14	14	Seize	14	14
Esteem	14	14	Sevin	3	3
Funginex 6.5%	0	0	Silencer ^r	14	14
Imidan 70WP	14	14	Topsin-M	1	1
Indar 75 WSP	0	0	Vendex 50WPr	14	14
Intrepid 2F	7	7	Warrior ^r	14	14
Intrepid .	7	7	Ziram	14	14
Javelin	0	0			
Kocide	N/A	N/A			

^r Restricted Use Pesticide.

Chemical classifications can be found at the following Web sites: Herbicides-http://www.plantprotection.org/hrac/; Insecticides-http://www.irac-online.org/; and Fungicides-http://www.frac.info/.

^{*} See label for other limitations.

^{**} Rovral may not be applied after petal fall

N/A = These fungicides may not be applied after shuck split.

The Oklahoma Cooperative Extension Service Bringing the University to You!

The Cooperative Extension Service is the largest, most successful informal educational organization in the world. It is a nationwide system funded and guided by a partnership of federal, state, and local governments that delivers information to help people help themselves through the land-grant university system.

Extension carries out programs in the broad categories of agriculture, natural resources and environment; family and consumer sciences; 4-H and other youth; and community resource development. Extension staff members live and work among the people they serve to help stimulate and educate Americans to plan ahead and cope with their problems.

Some characteristics of the Cooperative Extension system are:

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- It is administered by the land-grant university as designated by the state legislature through an Extension director.
- Extension programs are nonpolitical, objective, and research-based information.

- It provides practical, problem-oriented education for people of all ages. It is designated to take the knowledge of the university to those persons who do not or cannot participate in the formal classroom instruction of the university.
- It utilizes research from university, government, and other sources to help people make their own decisions.
- More than a million volunteers help multiply the impact of the Extension professional staff.
- It dispenses no funds to the public.
- It is not a regulatory agency, but it does inform people of regulations and of their options in meeting them.
- Local programs are developed and carried out in full recognition of national problems and goals.
- The Extension staff educates people through personal contacts, meetings, demonstrations, and the mass media.
- Extension has the built-in flexibility to adjust its programs and subject matter to meet new needs. Activities shift from year to year as citizen groups and Extension workers close to the problems advise changes.

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