

This is a section from the

2024/2025 Mid-Atlantic Commercial Vegetable Production Recommendations

The recommendations are **NOT** for home gardener use.

The full recommendations are available online at: <u>https://www.udel.edu/academics/colleges/canr/cooperative-extension/sustainable-production/commercial-crops/vegetable-crops/midatlantic-vegetable-recommendations/</u>

Printed copies of the recommendations are available for purchase at the New Castle, Kent and Sussex County Extension Offices in Delaware.

This publication will be revised biennially. In January 2025, a Critical Update with important updates for this publication will be communicated through the above website.

These recommendations were prepared and reviewed by individuals from Cornell University, University of Delaware, Delaware State University, University of Maryland, Penn State, Rutgers University, Virginia Tech, and West Virginia University with the purpose of providing up to date information for commercial vegetable growers in the Mid-Atlantic states of **Delaware**, **Maryland**, **New Jersey**, **Pennsylvania**, **Virginia**, and **West Virginia**.

Disclaimer

• The label is a legally-binding contract between the pesticide user and the manufacturer.

• The user MUST follow all rates and restrictions as per label directions.

• The use of any pesticide inconsistent with the label directions is a violation of Federal law.

F. Commodity Recommendations

Pesticide Use Disclaimer

THE LABEL IS THE LAW

A pesticide applicator is legally bound by the labeling found on and with the pesticide container in their possession. Before using a pesticide, check and always follow the labeling <u>distributed with the product at the point of sale</u> for legally enforceable rates and use restrictions and precautions.

Although labels are available on the Internet from electronic label services such as Proagrica's CDMS (<u>https://www.cdms.net/</u>), Greenbook (<u>https://www.greenbook.net</u>), or Agworld DBX powered by Agrian (<u>https://www.agrian.com/labelcenter/results.cfm</u>) the information contained in these electronic labels may not be identical to the labeling distributed with the product. Please be advised that these electronic label services provide use disclaimers, and in some cases legally binding User Agreements assigning ALL liability to user of service. (See section D 3.1. Labels and Labeling for more detail.)

Guide to the Recommended Pesticide Tables in the Following Crop Sections:

- Pesticides are listed by group number or code based on chemical structure and mechanism of action, as classified by the Herbicide Resistance Action Committee (HRAC, <u>https://hracglobal.com</u>) for herbicides, the Insecticide Resistance Action Committee (IRAC, <u>https://irac-online.org</u>) for insecticides, and the Fungicide Resistance Action Committee (FRAC, <u>https://www.frac.info/</u>) for fungicides. In this guide, if the group number or code is in bold font, there are resistance concerns for the product.
- **2. Restricted use pesticides** are marked with a * in the Tables. These products may only be used by certified and/or licensed pesticide applicators, and when stated on the label, those making applications under their direct supervision. Some labels may restrict use solely to certified and/or licensed applicators. (See section D 3.2.1 Restricted Use Classification Statement for more detail).
- 3. In addition to the pesticide products listed in the Commodity Recommendations below, other formulations or brands with the same active ingredient(s) may be commercially available. ALWAYS CHECK THE LABELING ON THE PRODUCT CONTAINER ITSELF: a) to ensure a pesticide is labeled for the same intended use,
 - b) to ensure the pesticide is labeled for the desired crop,
 - c) for differences in application rates and % active ingredient(s), and d) additional restrictions.
- **4.** All pesticide recommendations contained in this document are prescribed for spray applications to a **broadcast area of 1 acre** (43,560 square feet). **Adjust the rate accordingly for banded applications** (See section E 1.3. Calibrating Granular Applicators) **or for chemigation** (check labels for amounts per 1,000 feet).
- 5. Check the physical product label for and do not exceed the maximum amount of pesticide *per application* and the maximum number of applications *per year*.
- **6.** Bee Toxicity Rating (Bee TR): N=nontoxic; L=minimum impact on bees; M=moderately toxic, can be used if dosage, timing, and method of application are correct, but should NOT be applied directly to the crop if bees are present; H=highly toxic, severe losses expected, -- = data not available.
- 7. In accordance with the USDA National Organic Program, the Organic Materials Research Institute (OMRI) maintains a directory of all products that OMRI has determined are allowed for use in organic production, processing, and handling. These products are catalogued online in the **OMRI Products List** (see <u>https://www.omri.org/omri-lists</u>).

Recommended Varieties

Туре	Flesh Color	Variety ^{1,2}	Days ³	Rind Description	lb ⁴	PM ⁵	FW ⁶
Muskmelon	Orange	Accolade	74	Oval, medium netting, light sutures	5	1,2	0,1,2
		Aphrodite	80	Light netting, light sutures	7	1	0,1,2
		Astound	75	Oval, fine netting, light sutures	5	1,2	0,1,2
		Athena	79	Oval, medium netting, light sutures	6	1,2	0,1,2
		Atlantis	74	Oval, medium netting, light sutures	7	1,2	0,1,2
		Avatar	72	Oval, medium netting	8	1,2	0,1,2
		Goddess	68	Oval, medium netting, light sutures	5	1,2	0,1,2
		Halona	73	Round, netted, heavy sutures	4	1,2	0,1,2
		Orange Sherbet	80	Oval, medium netted, heavy sutures	7	1	0,1,2
		Rockstar	73	Oval, medium netting, light sutures	6	1,2	0,1,2
		Sarah's Choice	76	Round, netted, no sutures	3	1,2	0,1,2
		Sugar Cube	80	Mini, round, netted, no sutures	2	1,2	0,1,2
		Sugar Rush	75	Oval, netted	4	1,2	0,1,2
		Tirreno	83	Oval, medium netting, green sutures	3	1,2	0,1,2
Canary	White	Camino Europa	84	Oval, yellow, wrinkled, no net	5	1,2	0,1,2
·		Halo	75	Oval, yellow, no net	5	1	0,1
		Natal	85	Oval, yellow, wrinkled, no net	5	1,2	0, 1,2
Galia	Green	Diplomat	75	Slight oval, fine net, no sutures	5	1,2	
		Passport	75	Slight oval, fine net, no sutures	6		
		Visa	75	Slight oval, fine net, no sutures	4	1,2	
Honeydew	Light green	Dewlightful	90	Round, white, smooth	7	1,2	
·		Earli-Dew	80	Round, white, smooth	3		2
		Summer Dew	88	Round, white, smooth	5	1,2	0,2
	White	Snow Leopard	71	Slight oval, white/green, smooth	2		1
Christmas	Light green	Lambkin	70	Oval, smooth, green/yellow rind	3		

¹Listed alphabetically within type. ²All varieties are hybrids. ³Relative days to harvest. ⁴lb=average harvest weight (pounds per melon). ⁵PM=Powdery Mildew; resistance to PM races as reported from source seed companies. ⁶FW=Fusarium Wilt; resistance to FW races as reported from source seed companies.

Melon Descriptions

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Ananas	Middle Eastern Melons. Oval shaped with medium-fine netting over pale green to orange rind. Very sweet, aromatic white
	flesh or orange-pink flesh. Average weight 3-4 pounds.
Canary	Bright yellow rinds and an oblong shape. Inside, the pale, cream-colored flesh is juicy, and the flavor is very mild.
Casaba	Oval shape with a pointy end, wrinkled yellow skin, weighing 4-7 pounds. The pale, almost white flesh is extremely sweet.
Charentais	French melons identifiable by their smooth, gray, or gray-blue rinds with sutures and orange flesh and are small in size.
Christmas	Football shape and weighing upwards of 5 to 8 pounds. They have green mottled rinds and pale orange to light green flesh
	depending upon the variety. Sweet flesh.
Crenshaw	Casaba cross with a slightly more oblong shape, weighing at least 5 pounds. The slightly wrinkled green rind ripens to
	yellow. Inside, the flesh is pale peachy orange. It has a strong, spicy aroma.
Crosses	There are a number of crosses, e.g., muskmelon x Galia and Charentais x Muskmelon that produce excellent melons.
Galia	Israeli melons that have netted rinds similar to cantaloupes but paler in color. The sweet pale green to almost white flesh
	has the consistency of a honeydew with what has been described as a spicy-sweet or banana-like aroma. When ripe, they
	slip from the vine.
Honeydew	Smooth, white to greenish-white rinds (some may be yellow) and sweet flesh that may be green, white, or orange. Its
	texture is similar to a cantaloupe, but the flavor more subtle and sweet.
Muskmelon	The familiar American cantaloupes with orange flesh and netted skin. This includes deep sutured round to oval "Superstar"
	types, Eastern "Athena" types that are oval with slight sutures, and Western shipping types without sutures.
Oriental	Small (weighing a little more than 1 pound), elongated yellow melons with white sutures, and sweet, pale peach to white
	flesh. Because the seeds are so small and the rind is so thin, the entire melon can be eaten.
Other	Specialty melons that do not fit into the other categories are also available including those categorized as "Gourmet".
Persian	Bigger than cantaloupes, have a dark green rind with light brown netting. As it ripens, the rind turns to light green. Bright
	pink-orange flesh has a delicate flavor. Unlike most melons in the Reticulatus group, Persian melons do not slip from the
	vine when mature.
Tuscan	A category of muskmelon that is oblong with deep green sutures and netted straw-colored skin.

Recommended Nutrients Based on Soil Tests

In addition to using the table below, check the suggestions on rate, timing, and placement of nutrients in your soil test report and Chapter B Soil and Nutrient Management. Your state's soil test report recommendations and/or your farm's nutrient management plan supersede the recommendations found below.

	Ŭ	Soi	l Phospl	iorus Le	evel	So	il Potass	sium Le	vel	
		Low	Med	High	Very	Low	Med	High	Very	
				(Opt)	High			(Opt)	High	
	N (lb/A)		P_2O_5	(lb/A)			K ₂ O ((lb/A)		Nutrient Timing and Method
	75-150	150	100	50	03	200	150	100	0 ³	Total nutrient recommended
Musk-										
melons ^{1,2}	25-50	150	100	50	0 ³	200	150	100	0 ³	Broadcast and disk-in
										or follow fertigation schedule
	25-50	0	0	0	0	0	0	0	0	Sidedress when vines begin to run
										or follow fertigation schedule
	25-50	0	0	0	0	0	0	0	0	Sidedress prior to first harvest
										or follow fertigation schedule

For plasticulture, fertilization rates are based on a standard row spacing of 6 ft.

¹Apply 1-2 lb/A of boron (B) with broadcast fertilizer; see also Table B-7. in Chapter B Soil and Nutrient Management.

²Apply 25-30 lb/A of sulfur (S) for most soils.

³In VA, crop replacement values of 25 lb/A of P₂O₅ and 50 lb/A of K₂O are recommended on soils testing Very High.

Fertigation Schedule Examples

This table provides examples of fertigation schedules based on two common scenarios – sandy coastal plain soils and heavier upland soils. Modify according to specific soil tests and base fertility.

Fertigation recommendatio									
For soils with organic matter	content less	than 2% or c			edium or defi				
			Nitrogen	l		Potash			
Preplant (lb/A) ³			50			100	100		
			Ν	Ν	Ν	K ₂ O	K ₂ O	K2O	
Stage and Description	Weeks	Days	lb/day	lb/week	lb/stage	lb/day	lb/week	lb/stage	
1 Early vegetative	1-4	1-28	0.9	6.3	25.2	0.9	6.3	25.2	
2 Late vegetative	5-7	29-49	1.3	9.1	27.3	1.3	9.1	27.3	
3 Flowering and fruiting	8-11	50-77	1.5	10.5	42	1.5	10.5	42	
4 Harvest ⁴	12-13	78-91	0.7	4.9	9.8	0.7	4.9	9.8	
Fertigation recommendatio	ns for 60 lb	N and 60 lb	K ₂ 0 ^{1,2}	•					
For soils with organic matter				e and high or o	optimum K				
			Nitrogen	l		Potash			
Preplant (lb/A) ³			40			40			
			Ν	Ν	Ν	K ₂ O	K ₂ O	K2O	
Stage and Description	Weeks	Days	lb/day	lb/week	lb/stage	lb/day	lb/week	lb/stage	
1 Early vegetative	1-4	1-28	0.5	3.5	14	0.5	3.5	14	
2 Late vegetative	5-7	29-49	0.8	5.6	16.8	0.8	5.6	16.8	
3 Flowering and fruiting	8-11	50-77	0.9	6.3	25.2	0.9	6.3	25.2	
4 Harvest ⁴	12-13	78-91	0.4	2.8	5.6	0.4	2.8	5.6	

¹Rates are based on 7,260 linear bed ft/A (6-ft bed spacing). If beds are closer or wider, fertilizer rates should be adjusted proportionally. Drive rows should not be used in acreage calculations (see section C 3. Fertigation).

²Base overall application rate on soil test recommendations.

³Applied under plastic mulch to effective bed area using modified broadcast method.

⁴For extended harvest after 10 weeks continue fertigation at this rate.

Plant Tissue Testing

Plant tissue testing can be a valuable tool to assess crop nutrient status during the growing season to aid with inseason fertility programs or to evaluate potential deficiencies or toxicities. Critical muskmelon tissue test values for most recently matured leaves prior to fruit set: N 4-5 %, P 0.4-0.7 %, K 5.0-7.0 %, Ca 3-5%, Mg 0.35-0.45% and S 0.2%. For additional nutrients and other growth stages consult with a tissue testing laboratory or this web link at the University of Florida: <u>https://edis.ifas.ufl.edu/publication/ep081</u>.

Seed Treatment

Seed should be treated; check with your seed company and see Disease Control below.

Plant Production, Planting and Spacing

Transplants for early plantings should be grown in pots or cells with at least 2 x 2 inches per plant (50 cell trays). Later plantings can be grown in 72 cell trays. Small cells will restrict root growth and provide less protection to the newly set transplant in colder soils. One ounce of muskmelon seed contains 950-1,250 seeds. Grow at 70-75°F.

Transplant container-grown plants through plastic mulch when soil temperature has reached 60°F (16°C). Temperatures below 50°F (10°C) can stunt plant growth. Direct seeding in plastic mulch or bare ground is also successful. First planting dates vary from May 1 in southern regions to June 5 in northern areas and successive plantings can be made to harvest through early September. Early plantings should be protected from winds with row covers, or rye windbreaks. The recommended spacing for melons is 5-6 ft between rows and 2-3 ft between plants in the row for transplants (space mini melons closer than large melons). Direct seedings should be overseeded and thinned to a similar population.

Drip/Trickle Fertilization

Before mulching, adjust soil pH to around 6.5, apply enough farm-grade fertilizer to supply 25-50% of N and K_2O requirements and thoroughly incorporate into the soil. At least 50% of N should be in the nitrate (NO₃) form. Apply all P₂O₅ preplant and incorporate into the soil. Apply the balance of N and K_2O through the drip irrigation system throughout the season. The first fertigation application should be within a week after field transplanting or direct seeding.

Manganese Toxicity

This disorder occurs in acid soils (pH < 5.8). Maintain soil pH at 6.5 to avoid toxicity.

Mulching

Plastic mulch laid on moist soil before field plantings conserves moisture, increases soil temperature, and increases early and total yields. Various widths of plastic mulch are available; choose a width that works with your production system and available equipment. Fumigation aids in the control of weeds and soil-borne diseases. Several fumigants can be used on muskmelon depending on what the predominant pests are. Plastic and fumigant should be applied to well-prepared soil 30 days before field planting. Fumigation alone may not provide satisfactory weed control under plastic.

Pollination (see also sections A 12. Pollination and D 6.3.1. Protection of Pollinators).

Honey bees, squash bees, bumble bees and other wild bees are important for pollination and fruit set. Populations of pollinating insects may be adversely affected by insecticides applied to flowers or weeds in bloom. Apply insecticides only in the evening hours or wait until bloom is completed before application. See insecticide tables for relative toxicity of various pesticides for bees and follow all label application restrictions for pollinator protection.

Harvest and Post-Harvest Considerations

Muskmelons should be harvested no sooner than at half-slip and preferably at full-slip for optimum fruit quality. Canary melons and Galia melons also slip, but Honeydews and some specialty melons do not. Pick honeydew melons when the stem end becomes slightly springy, and the skin takes on a creamy yellow appearance. Harvest daily in hot weather. Cooling to remove field heat is desired. Precooling can be done with cold water, cold air, or ice. Hydrocooling is the most efficient method, but room cooling and forced air cooling are also suitable for melons. After precooling, muskmelons should be stored at 36-41°F (2-5°C) and 95% relative humidity. A full-slip melon can be kept about 15 days at this temperature. Honeydews and other non-slip melons should not be stored below 40°F (4°C), as chilling injury will result. They will retain adequate quality for 2-3 weeks at 45-50°F (7-10°C).

Weed Control

THE LABEL IS THE LAW-see the Pesticide Use Disclaimer on the first page of Chapter F. Recommended Herbicides

1. Identify the weeds in each field and select recommended herbicides. More information is available in the "Herbicide Effectiveness on Common Weeds in Vegetables" (Table E-3) in Chapter E Pest Management.

2. Minimize herbicide resistance development. Identify the herbicide mode of action group number and follow recommended good management practices; **bolded group numbers in tables below are herbicides at higher risk for selecting resistant weed populations.** Include non-chemical weed control whenever possible.

Labeled Application Sites for Muskmelons											
Herbicide	HRAC	Plastic m	ulch produ	ction			Bareground production				
(*=Restricted Use)	Soil-Applied		Postemergence								
	number	Under Plastic	Row Middles	Over Plastic	Row Middles	Post- Harvest	Soil- applied	POST	Post- harvest		
Sandea	2	YES	YES	YES	YES		YES	YES			
Curbit	3		YES				YES				
Prowl H2O	3		YES								
Treflan	3		YES								
Prefar	8	YES	YES				YES				
Command	13		YES				YES				
Strategy	3 + 13		YES				YES				
Poast	1			YES				YES			
Select / Select Max Shadow 3EC	1			YES				YES			
Gramoxone*1	22				YES	YES			YES		

¹ Special Local Needs Label 24(c), be sure it is registered for the specific state and for the intended use.

1. Pre-Transplant Over Plastic

	1					
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
10	Rely 280 2.34L	29 to 43 fl oz/A	glufosinate	0.53 to 0.79 lb/A	30	12

-Supplemental Label expires 12/1/2025 for application over plastic prior to transplanting.

-Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A.

-Control is best when applied to weeds less than 4 inches, temperatures are above 80, high humidity, and bright sunlight. -Transplants can be injured if they come in contact with herbicide remaining on the plastic. Allow at least 3 days between application and transplanting. At least 0.5 inches of precipitation is needed to wash Rely off the plastic. Do not transplant within 27 days of application if no precipitation occurs.

-DO NOT transplant into or within 6 inches of holes in the plastic mulch that were present at time of application.

-Two applications can be made prior to transplanting. Do not apply more than 64 fl oz/A prior to transplanting; maximum number of applications is three per season.

-Rainfastness is 4 h

22	Gramoxone SL 2.0* Gramoxone SL 3.0*	2 to 4 pt/A 1.3 to 2.7 pt/A	paraquat	0.5 to 1.0 lb/A		24
Gromovor	a can be used for proplant r	wood control over the ten of	plastia mulah Sufficient rai	nfall or anninklar invigation i	a naada	1 to

-Gramoxone can be used for preplant weed control over the top of plastic mulch. Sufficient rainfall or sprinkler irrigation is needed to wash off the Gramoxone prior to planting to prevent damage to the crop.

-Restricted-use pesticide. Only certified applicators, who successfully complete the paraquat-specific training, can mix, load, or apply paraquat. Application of paraquat "under the direct supervision" of a certified applicator is no longer allowed. Required training link (<u>https://campus.extension.org/enrol/index.php?id=2201</u>); certified applicators must repeat training every three years.
-Do not exceed 8 pt/A per season. -Rainfastness is 30 min.

2. Soil-Applied

	-PP					
Group	Product Name	Product Rate	Active Ingredient	Active Ingredient Rate	PHI	REI
	(*=Restricted Use)				(d)	(h)
2	Sandea 75DF	0.5 to 1 oz/A	halosulfuron	0.023 to 0.047 lb/A	57	12
T. I. I. I.	6		1			

-Labeled for use on cantaloupes, honeydew melons, and Crenshaw melons.

-**Plasticulture**: can be applied in a band under the plastic, immediately before laying the mulch; delay seeding or transplanting for 7 days after application. Row middles: apply before or after weed emergence; apply as a shielded application to avoid contact with the crop. If weeds have emerged, use a non-ionic surfactant at 0.25% v/v or include a non-selective herbicide.

-Bareground: apply broadcast after seeding but before crop emergence or no sooner than 7 days before transplanting.

-Suppresses or controls yellow nutsedge and certain broadleaf weeds. -Sandea provides both residual and postemergence control of susceptible weed species. Effective postemergence control requires an adjuvant. Sandea is an ALS inhibiting herbicide and resistant weed populations are common in the region. -Do not use Group 2 herbicides repeatedly in the same field. -Do not apply Sandea to crops treated with a soil applied organophosphate insecticide or use a foliar applied organophosphate insecticide within 21 days before or 7 days after a Sandea application. -Maximum number of applications per year is 2 and do not exceed 2 oz/A during the crop season.

2. Soil-Applied - continued next page

	lied - continued Curbit 3EC	1 to 3 pt/A	ethalfluralin	0.38 to 1.13 lb/A		24
<u>}</u>						24
Baregro Controls	und: apply broadcast af annual grasses and certa	: apply as a banded spray after ter direct-seeding but prior to ain annual broadleaf weeds, i natter. Where overhead irrigat	crop emergence; do not us ncluding carpetweed and pig	e on transplanted melons. gweed sp. Use lower rate for	coarse-tex	
after app	olication; if no irrigation	or rainfall occurs within 5 da Strategy. Strategy at 3 pt/A=	ays of application, activity of	f Curbit can be reduced.		-
	m applications per seaso		- Curon at 20 II 02/A (0.0 10	al) and Command at 8 II 02/	A (0.166 I	J al)
;	Prowl H2O 3.8CS	2.1 pt/A	pendimethalin	1 lb/A	35	24
		: apply as a banded spray bef				
transplar Where o no irriga	nted row. Apply before s verhead irrigation is ava tion or rainfall occurs w	d sprayer band between rows seeded crop emerges or befor illable, activate Prowl H2O w ithin 5 days of application, ac	e transplanting. rith 0.5 inch of rainfall or sp ctivity of Prowl H2O can be	rinkler irrigation within 48 h reduced	of applica	
first app	lication, but before the v	e rate may be applied to row r vines begin to run. Do not applications per season is 2	ply over the top of the crop,	or severe injury may occur.	21 days af	ler in
3 Sintaximu	Treflan 4EC	D applications per season is 2 1 to 2 pt/A	trifluralin	0.5 to 1 lb/A	30	12
		: apply as a directed spray aft				
growth. the rate)	Not labeled for baregrou when cold, wet soil con	and production. Primarily cor ditions are expected, or crop	ntrols annual grasses with a tinjury may resultMaximu	few broadleaf weeds. -Do no um applications per season: r	ot use (or r ot specifie	educe d.
+13	Strategy 2.1SC	1.5 to 6 pt/A	ethalfluralin <i>plus</i>	0.39 to 1.58 lb/A	45	24
Plasticu		ication. Bareground: apply b	clomazone proadcast just before planting	g or after planting but before	crop emer	gence
Plasticu Strategy other veg	Iture: row middles appli is a prepackage mixture getation, refer to Comma		clomazone proadcast just before planting d 3MEClomazone spray not apply prior to planting	g or after planting but before or vapor drift may injure sus	crop emer	gence ops a
Plasticu Strategy other veg individu	Iture: row middles appli is a prepackage mixture getation, refer to Comma al products for comment Prefar 4E	ication. Bareground : apply b of Curbit 3EC and Comman and 3ME for comments Do tsMaximum applications p 5 to 6 qt/A	clomazone proadcast just before planting d 3MEClomazone spray onot apply prior to planting per season: not specified. bensulide	g or after planting but before or vapor drift may injure sus crop. Do not soil incorporate 5 to 6 lb/A	crop emer ceptible cro e. Refer to	ops ar
Plasticu Strategy other veg individu Plasticu transplar Baregro Preemerg Preplant -Prefar p	Iture: row middles appli is a prepackage mixture getation, refer to Comma al products for comment Prefar 4E Iture under plastic: appl nt holes to allow conden und: apply preemergence gence applications shoul incorporated application provides control/suppress	ication. Bareground : apply b c of Curbit 3EC and Comman and 3ME for comments Do tsMaximum applications p 5 to 6 qt/A ly in a band under the plastic, sation to incorporate the herb ce or preplant incorporated. Id be followed by irrigation w ns should be incorporated 1 to sion of some annual grass we	clomazone proadcast just before planting d 3MEClomazone spray o not apply prior to planting per season: not specified. bensulide immediately before laying to vithin 36 h (apply enough way to 2 inches deep (deeper than beda sand some broadleaves in	g or after planting but before or vapor drift may injure sust crop. Do not soil incorporate 5 to 6 lb/A the mulch. Allow 7 day befor Idles application is labeled. ater to wet the soil at least 2 to 2 inches will result in reduc	crop emer ceptible cro e. Refer to ore making to 4 inches ed weed co	gence ops an 12 deep
Strategy other veg individu. Plasticul transplar Baregro Preemerg Preplant -Prefar p lambsqu	Iture: row middles appli is a prepackage mixture getation, refer to Comma al products for comment Prefar 4E Iture under plastic: appl nt holes to allow conden und: apply preemergence gence applications shoul incorporated application rovides control/suppress arters Do not apply m Command 3ME	ication. Bareground : apply b of Curbit 3EC and Comman and 3ME for comments Do tsMaximum applications p 5 to 6 qt/A ty in a band under the plastic, sation to incorporate the herb ce or preplant incorporated. Id be followed by irrigation w ns should be incorporated 1 to	clomazone proadcast just before planting d 3MEClomazone spray o not apply prior to planting er season: not specified. bensulide immediately before laying vithin 36 h (apply enough was o 2 inches deep (deeper than veds and some broadleaves in . clomazone	g or after planting but before or vapor drift may injure sus- crop. Do not soil incorporate 5 to 6 lb/A the mulch. Allow 7 day befor idles application is labeled. ater to wet the soil at least 2 to a 2 inches will result in reduc ncluding pigweeds, purslane, 0.15 to 0.25 lb/A	crop emer ceptible cro e. Refer to ore making to 4 inches ed weed co , and	gence ops ar 12 deep ontrol

Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
1	Shadow 3EC	4 to 5.33 fl oz/A	clethodim	0.07 to 0.125 lb/A	14	24
	Select 2EC	6 to 8 fl oz/A				
	Select Max 0.97EC	9 to 16 fl oz/A				
	Poast 1.5EC	1 to 1.5 pt/A	sethoxydim	0.19 to 0.28 lb/A	3	12
0.25% v/	v (1 qt/100 gal of spray sol	ution). Shadow 3EC: use	crop oil concentrate (COC)	elect Max: use nonionic surfact at 1% v/v (1 gal/100 gal of spra	ay soluti	on)
for large	or stressed grasses; use not	nionic surfactant (NIS) at	0.25% v/v (1 qt/100 gal of sp	oray solution) when crop safety	is a cor	icern.
Deastung	se COC at 1.0% v/v.					

omit additives or switch to NIS when grasses are small and soil moisture is adequate. 2. Postemergence Shadow, Select, Select Max, Poast - continued next page

2. Postemergence Shadow, Select, Select Max, Poast - continued

2. Postemergence Shadow, Select, Sele					
-Use lower labeled rates for annual g					on,
wild garlic, and broadleaf weeds wil					
bluegrass, but Poast is preferred for	goosegrass control. For best	results, treat annual grasses	when they are actively gro	wing and	before
tillers are present. Control may be re	educed if grasses are large or	under hot or dry weather co	nditionsRepeated applie	cations ma	iy be
necessary to control certain perennia	al grasses. If repeat application	ons are necessary, allow 14 d	lays between applications.		
-Rainfastness is 1 hDo not tank mi	ix with or apply within 2 to 3	3 days of any other pesticide	, unless labeled, as this ma	y increase	the:
risk of crop injury or reduce the cont					
exceed 32 fl oz/A for the season; do					
for the season. -Do not apply more t				l oz/A for	the
seasonDo not apply more than 1.	5 pt/A Poast in a single appli	cation and do not exceed 3	pt/A for the season.		-
2 Sandea 75DF	0.5 to 1 oz/A	halosulfuron	0.023 to 0.047 lb/A	57	12
-Labeled for use on cantaloupes, ho	oneydew melons, and Crens	shaw melons.			
-Plasticulture: broadcast (over the to					
-Bareground: apply Sandea after the				oner than	14
days after transplanting. If weeds ha					
-Suppresses or controls yellow nutsed	dge and certain broadleaf; co	ntrol of weeds taller than 3 i	nches may not be adequate	e. Sandea	will
not control common lambsquarters of					
non-selective herbicide to increase s				susceptible	e weed
species. Sandea is an ALS inhibiting					
-Do not use Group 2 herbicides repea					phate
insecticide or use a foliar applied org					
-Rainfastness is 4 h. Maximum numb	· · · · ·		<u> </u>		
10 Rely 280 2.34L	29 to 62 fl oz/A	glufosinate	0.53 to 1.13 lb/A	30	12
-Supplemental Label expires 12/1/2					do not
spray within 6 inches of running vin					
-Ammonium sulfate (AMS) can be us				, temperat	ures
are above 80, high humidity, and bri					
-Do not apply more than 62 fl oz/A in		apply more than 87 fl oz/A	per season; maximum nun	nber of	
applications is three per seasonRa		I			
22 Gramoxone SL 2.0*	1.95 pt/A	paraquat	0.49 lb/A	14	24
Gramoxone SL 3.0*	1.3 pt/A				
-Supplemental Label for the use of		ions for postemergence we	ed control in DE, MD, N	J, PA, an	d VA.
Row middles as a shielded application					
-Apply as a directed spray in a minim					iment.
Include a nonionic surfactant at 0.25					
(maximum of 30 psi) to reduce smal					
-Rainfastness is 30 min. A maximum	of 3 applications per year at	re allowed Restricted_use n	asticida Only cartified on	aliontoma a	who
					who
successfully complete the paraquat-s	specific training, can mix, lo	ad, or apply paraquat. Appli			wiio

supervision" of a certified applicator is no longer allowed. -Required training link

(https://campus.extension.org/enrol/index.php?id=2201); certified applicators must repeat training every three years.

4. Postharvest

Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
22	Gramoxone SL 2.0*	2.25 to 3 pt/A	paraquat	0.56 to 0.75 lb/A	14	24
	Gramoxone SL 3.0*	1.5 to 2 pt/A				

-Supplemental Label in DE for the use of both Gramoxone formulations for postharvest application to desiccate the crop. -Apply after the last harvest for bareground or plasticulture. Always include an adjuvant.

-Spray coverage is essential for optimum effectiveness. See the label for additional information and warnings.

-Rainfastness 30 min. A maximum of 2 applications for crop desiccation are allowed.

-*Restricted-use pesticide*. Only certified applicators, who successfully complete the paraquat-specific training, can mix, load, or apply paraquat. Application of paraquat "under the direct supervision" of a certified applicator is no longer allowed. Required training link (<u>https://campus.extension.org/enrol/index.php?id=2201</u>); certified applicators must repeat training every three years.

5. Other Labeled Herbicides These products are labeled but limited local data are available; and/or are labeled but not recommended in our region due to potential crop injury concerns.

Group	Product Name (*=Restricted Use)	Active Ingredient
2	League	imazosulfuron
3	Dacthal	DCPA
14	Aim	carfentrazone
14	Varsity, others	flumioxazin

Insect Control

THE LABEL IS THE LAW-see the Pesticide Use Disclaimer on the first page of Chapter F. Recommended Insecticides

Seed and At-Plant Treatments for Seedcorn Maggot

Farmore DI-400 as a commercially applied seed treatment which contains thiamethoxam (Group 4A). Verimark (cyantraniprole, Group 28) applied no earlier than 72 hours prior to planting, at 10-13.5 oz/A using in-

Verimark (cyantraniprole, Group 28) applied no earlier than 72 hours prior to planting, at 10-13.5 oz/A using infurrow spray, transplant tray drench, transplant water treatment, hill drench, or surface band.

Note: The use of neonicotinoid insecticides (Group 4A) at planting will help reduce seedcorn maggot damage. See also <u>Maggots</u> in section E 3.1. Soil Pests - Detection and Control.

Apply on	e of the following formulat	tions:				
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee
	(*=Restricted Use)			(d)	(h)	TR
1A	Lannate LV*	1.5 to 3.0 pt/A	methomyl - melon aphid only	1-3	48	Н
1B	Dimethoate 400	1.0 pt/A	dimethoate	3	48	Н
4A	Neonicotinoid insecticide	s registered for use on Musk and Mixed	d Melons: see table at the end of Ins	ect Conti	rol.	
4C + 3A	Ridgeback*	5.5 to 13.8 fl oz/A	sulfoxaflor + bifenthrin	3	24	Н
4D	Sivanto Prime or 200SL	21.0 to 28.0 fl oz/A	flupyradifurone - soil/drip	21	4	М
9B	Fulfill 50WDG	2.75 oz/A	pymetrozine	0	12	L
9B	PQZ	2.4 to 3.2 fl oz/A	pyrifluquinazon	1	12	L
9D	Sefina	3.0 fl oz/A	afidopyropen	0	12	L
21A	Torac	17.0 to 21.0 fl oz/A	tolfenpyrad	1	12	Н
28	Exirel	13.5 to 20.5 fl oz/A	cyantraniliprole	1	12	Н
28	Verimark	Soil, at planting: 10 to 13.5 fl oz/A Drip chemigation: 10 fl oz/A	cyantraniliprole	1	4	Н
28	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyclaniliprole	1	4	Н
28 + 6	Minecto Pro*	10.0 fl oz/A	cyantraniliprole + abamectin	7	12	Н
29	Beleaf 50SG	Foliar: 2.0 to 2.8 oz/A Drip: 2.8 to 4.28 oz/A	flonicamid	0	12	L

Aphids Note: Aphids transmit multiple viruses

Armyworms and Cabbage Loopers

Various armyworm species and cabbage loopers can be found feeding on melon leaves. Their damage seldom requires treatment. Defoliation exceeding 25% may justify control measures. Insecticide sprays for cucumber beetles often will control these pests.

Apply o	ne of the following formulations:					
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1A	Lannate LV*	1.5 to 3.0 pt/A	methomyl	1-3	48	Н
3A ¹	Pyrethroid insecticides registered for		Melons: see table at the end of Insect Co	ntrol		<u> </u>
5	Entrust SC (OMRI)	4.0 to 8.0 fl oz/A	spinosad	3	4	М
5	Radiant SC	5.0 to 10.0 fl oz/A	spinetoram	3	4	М
6	Proclaim 5SG*	3.0 to 4.8 oz/A	emamectin benzoate	7	12	Н
11A	Dipel DF, others (OMRI)	0.5 to 2.0 lb/A	Bacillus thuringiensis kurstaki	0	4	Ν
11A	XenTari (OMRI)	0.5 to 2.0 lb/A	Bacillus thuringiensis aizawai	0	4	Ν
18	Intrepid 2F	4.0 to 10.0 fl oz/A	methoxyfenozide	3	4	L
22	Avaunt 30WDG, Avaunt eVo	2.5 to 6.0 oz/A	indoxacarb	3	12	Н
28	Coragen 1.67SC Coragen eVo	3.5 to 7.5 fl oz/A 1.2 to 2.5 fl oz/A	chlorantraniliprole	1	4	L
28	Exirel	7.0 to 17.0 fl oz/A	cyantraniliprole	1	12	Н
28	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyclaniliprole	1	4	Н
28	Verimark	6.75 to 13.5 fl oz/A	cyantraniliprole	1	4	Н
28+4A	Voliam Flexi (cabbage looper only)	4.0 to 7.0 oz/A	thiamethoxam + chlorantraniliprole	1	12	Н
28 + 6	Minecto Pro*	5.5 to 10.0 fl oz/A	cyantraniliprole + abamectin	7	12	Н

¹Resistance concerns with beet armyworm

Cucumber Beetles

Both striped (*Acalymma vittatum*) and spotted (*Diabrotica undecimpuctata howardii*) cucumber beetles are found in the Mid-Atlantic states. Both species can severely defoliate young seedlings and transmit bacterial wilt pathogens, a disease that most varieties of muskmelons are susceptible to. Cucumber beetles also serve as vectors for certain cucurbit viruses. If that's not enough, cucumber beetles also may feed on fruit causing direct damage. Thus, they are a force to be reckoned with. Control adults before they feed extensively on the cotyledons and first true leaves. Seeds pretreated with a neonicotinoid such as Farmore DI-400 should provide up to 14 days of control of cucumber beetle. If foliar insecticides are used, begin spraying shortly after plant emergence and repeat applications as needed if new beetles continue to invade fields. Treatments may be required until vines begin to run. Reduced susceptibility to pyrethroids has been detected in some striped cucumber beetle populations, such as Delaware. The neonicotinoid Assail is extremely effective on cucumber beetles, while minimizing risks to pollinators. Otherwise, apply one of the following formulations:

Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR		
1A	Lannate LV*	1.5 to 3.0 pt/A	methomyl	1-3	48	Н		
1A	Sevin XLR Plus	1.0 qt/A	carbaryl	3	12	Н		
3A	Pyrethroid insecticides regis	Pyrethroid insecticides registered for use on Musk and Mixed Melons: see table at the end of Insect Control.						
4A	Neonicotinoid insecticides re	egistered for use on Musk and Mixe	ed Melons: see table at the end of Insect	Control.				
28	Exirel	20.5 fl oz/A	cyantraniliprole	1	12	Н		
28	Verimark	Soil, at planting: 13.5 fl oz/A Drip chemigation: 10 fl oz/A	cyantraniliprole	1	4	Н		
28	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyclaniliprole	1	4	Н		

Cutworms See also section E 3.1. Soil Pests - Detection and Control.

Apply on	Apply one of the following formulations:									
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee				
_	(*=Restricted Use)			(d)	(h)	TR				
1A	Lannate LV* (variegated cutworm)	1.5 pt/A	methomyl	1	48	Н				
1A	Lannate LV* (granulate cutworm)	1.5 to 3.0 pt/A	methomyl	1-3	48	Н				
3A	Pyrethroid insecticides registered for	yrethroid insecticides registered for use on Musk and Mixed Melons: see table at the end of Insect Control.								

Leafhoppers High numbers cause leaf yellowing (chlorosis) known as hopper burn, and yield loss.

Apply on	Apply one of the following formulations:										
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee					
	(*=Restricted Use)			(d)	(h)	TR					
1B	Dimethoate 400	1.0 pt/A	dimethoate	3	48	Н					
3A	Pyrethroid insecticides registered	d for use on Musk and Mi	xed Melons: see table at the end of Insect Co	ontrol.							
4A	Neonicotinoid insecticides regist	tered for use on Musk and	Mixed Melons: see table at the end of Insec	t Contro	ol.						
4D	Sivanto Prime or 200SL	21.0 to 28.0 fl oz/A	flupyradifurone - soil/drip	21	4	М					
9B	PQZ	3.2 fl oz/A	pyrifluquinazon	1	12	L					
21A	Torac	14.0 to 21.0 fl oz/A	tolfenpyrad	1	12	Н					

Leafminers

Apply on	Apply one of the following formulations:										
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee					
-	(*=Restricted Use)			(d)	(h)	TR					
1B	Dimethoate 400	1.0 pt/A	dimethoate	3	48	Н					
3A	Pyrethroid insecticides registered	d for use on Musk and Miz	xed Melons: see table at the end of Insect Co	ontrol.							
4A	Neonicotinoid insecticides regist	tered for use on Musk and	Mixed Melons: see table at the end of Insec	t Contro	ol.						
5	Entrust SC (OMRI)	6.0 to 8.0 fl oz/A	spinosad	3	4	М					
5	Radiant SC	6.0 to 10.0 fl oz/A	spinetoram	3	4	М					
6	Agri-Mek SC*	1.75 to 3.5 fl oz/A	abamectin	7	12	Н					
17	Trigard 75WSP	2.66 oz/A	cyromazine	0	12	Н					
28	Coragen 1.67SC	5.0 to 7.5 fl oz/A	chlorantraniliprole	1	4	L					
	Coragen eVo	1.7 to 2.5 fl oz/A	_								
28	Exirel	13.5 to 20.5 fl oz/A	cyantraniliprole	1	12	Н					
28	Verimark	6.75 to 13.5 fl oz/A	cyantraniliprole	1	4	Н					
28	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyclaniliprole	1	4	Н					
28 + 6	Minecto Pro*	5.5 to 10.0 fl oz/A	cyantraniliprole + abamectin	7	12	Н					

Mites

Infestations generally begin around field margins and grassy areas. **DO NOT** mow or maintain these areas after midsummer since this causes mites into the crop. Localized infestations can be spot treated. Begin treatment when 10-15% of the crown leaves are infested early in the season.

Apply or	e of the following formulation	ons. Note: Continuous use o	f carbaryl or pyrethroids may result	in mite outbr	eaks.	
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
6	Agri-Mek SC*	1.75 to 3.5 fl oz/A	abamectin	7	12	Н
10B	Zeal Miticide	2.0 to 3.0 oz/A	etoxazole	7	12	L
10B	Zeal MVP	23.0 to 34.6 fl oz/A	Etoxazole	7	12	L
20B	Kanemite 15SC	31.0 fl oz/A	acequinocyl	1	12	L
21A	Magister SC	24.0 to 36.0 fl oz/A	fenazaquin	3	12	Н
21A	Portal	2.0 pt/A	fenpyroximate	3	12	L
23	Oberon 2SC	7.0 to 8.5 fl oz/A	spiromesifen	7	12	М
28 + 6	Minecto Pro*	5.5 to 10.0 fl oz/A	cyantraniliprole + abamectin	7	12	Н
20D	Acramite 50WS	0.75 to 1.0 lb/A	bifenazate	3	12	М
N/A	Sulfur 80WG (OMRI)	5 to 25 lb/A	sulfur	0	24	М

Melonworms and Pickleworms

Apply one of the following formulations. If foliar materials are used, make one treatment prior to fruit set, and then treat weekly. If soil or drip applications are used, check the label for additional instructions. **Product Name Product Rate** Active Ingredient(s) PHI REI Bee Group (*=Restricted Use) (d) (h) TR 1A Lannate LV* 1.5 to 3.0 pt/A methomyl 48 1-3 Η 1A Sevin XLR Plus 0.5 to 1.0 qt/A carbaryl 3 12 Н Pyrethroid insecticides registered for use on musk melons: see table at the end of Insect Control. 3A Entrust SC (OMRI) 4.0 to 8.0 fl oz/A 5 spinosad 3 4 Μ 5 Radiant SC 5.0 to 10.0 fl oz/A 4 spinetoram 3 Μ Proclaim 5SG* 3.0 to 4.8 oz/A 7 12 Η 6 emamectin benzoate 18 Intrepid 2F 4.0 to 10.0 fl oz/A methoxyfenozide 3 4 L 22 Avaunt 30WDG, Avaunt eVo 2.5 to 6.0 oz/A indoxacarb 3 12 Η 28 Coragen 1.67SC 2.0 to 7.5 fl oz/A chlorantraniliprole 1 4 L Coragen eVo 0.7 to 2.5 fl oz/A 28 cyantraniliprole Exirel 7.0 to 13.5 fl oz/A 1 12 Н 5.0 to 10.0 fl oz/A 28 Verimark cyantraniliprole 1 4 Н 28 Harvanta 50SL 10.9 to 16.4 fl oz/A cyclaniliprole 4 1 Η Durivo 10.0 to 13.0 fl oz/A thiamethoxam + chlorantraniliprole 28+4A 30 12 Η Voliam Flexi 28+4A 4.0 to $7.0\ \text{oz/A}$ thiamethoxam + chlorantraniliprole 1 12 Η 28 + 6Minecto Pro* 5.5 to 10.0 fl oz/A cyantraniliprole + abamectin 12 Η 7

Rindworms

For Lepi	For Lepidopteran Rindworms, use one of the following formulations:										
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee					
_	(*=Restricted Use)			(d)	(h)	TR					
3A ¹	Pyrethroid insecticides registered for use on Musk and Mixed Melons: see table at the end of Insect Control.										
5	Entrust SC (OMRI)	4.0 to 8.0 fl oz/A	spinosad	3	4	М					
5	Radiant SC	5.0 to 10.0 fl oz/A	spinetoram	3	4	М					
6	Proclaim 5SG*	3.0 to 4.8 oz/A	emamectin benzoate	7	12	Н					
18	Intrepid 2F	4.0 to 10.0 fl oz/A	methoxyfenozide	3	4	L					

¹Resistance concerns with beet armyworm and corn earworm

Thrips

Apply one	Apply one of the following formulations:										
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee					
	(*=Restricted Use)			(d)	(h)	TR					
1B	Dimethoate 400	1.0 pt/A	dimethoate	3	48	Н					
3A ¹	Pyrethroid insecticides registered	d for use on Musk and Mix	xed Melons: see table at the end of Insect Co	ontrol.							
4A ²	Neonicotinoid insecticides registered for use on Musk and Mixed Melons: see table at the end of Insect Control.										
5	Entrust SC (OMRI)	6.0 to 8.0 fl oz/A	spinosad	3	4	М					

Thrips - continued next page

Thrips - continued	ł
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5	Radiant SC	6.0 to 10.0 fl oz/A	spinetoram	3	4	М
21A	Torac	21.0 fl oz/A	tolfenpyrad	1	12	Н
28	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyclaniliprole	1	4	Н
29	Beleaf 50SG	Foliar: 2.0 to 2.8 oz/A Drip: 2.8 to 4.28 oz/A	flonicamid	0	12	L

¹Resistance concerns with western flower thrips ²Resistance concerns with tobacco thrips

Whiteflies

Apply on	e of the following formulations:							
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR		
4A	Neonicotinoid insecticides registered for use on Musk and Mixed Melons: see table at the end of Insect Control.							
4C + 3A	Ridgeback*	11.0 to 13.8 fl oz/A	sulfoxaflor + bifenthrin	3	24	Н		
4D	Sivanto Prime or 200SL	21.0 to 28.0 fl oz/A	flupyradifurone - soil/drip	21	4	М		
7C	Knack	8.0 to 10.0 fl oz/A	pyriproxyfen	7	12	L		
9B	Fulfill 50WDG	2.75 oz/A	pymetrozine	0	12	L		
9B	PQZ	2.4 to 3.2 fl oz/A	pyrifluquinazon	1	12	L		
9D	Sefina	14.0 fl oz/A	afidopyropen	0	12	L		
21A	Portal	2.0 pt/A	fenpyroximate	3	12	L		
23	Oberon 2SC	7.0 to 8.5 fl oz/A	spiromesifen	7	12	М		
28	Exirel	13.5 to 20.5 fl oz/A	cyantraniliprole	1	12	Н		
28	Verimark	6.75 to 13.5 fl oz/A	cyantraniliprole	1	4	Н		
28 + 6	Minecto Pro*	10.0 fl oz/A	cyantraniliprole + abamectin	7	12	Н		
29	Beleaf 50SG	Foliar: 2.0 to 2.8 oz/A Drip: 2.8 to 4.28 oz/A	flonicamid	0	12	L		

Group 3A Pyrethro	Group 3A Pyrethroid Insecticides Registered for Use on Musk and Mixed Melons									
Apply one of the following formulations (check if the product label lists the insect you intend to spray; the label is the law):										
Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee					
(*=Restricted Use)			(d)	(h)	TR					
Asana XL*	5.8 to 9.6 fl oz/A	esfenvalerate	3	12	Н					
Baythroid XL*	0.8 to 2.8 fl oz/A	beta-cyfluthrin	0	12	Н					
Brigade 2EC*, others	2.6 to 6.4 fl oz/A	bifenthrin	3	12	Н					
Danitol 2.4EC*	10.67 to 16.0 fl oz/A	fenpropathrin	7	24	Н					
Declare*	1.02 to 1.54 fl oz/A	gamma-cyhalothrin	1	24	Н					
Hero*	4.0 to 10.3 fl oz/A	zeta-cypermethrin + bifenthrin	3	12	Н					
Lambda-Cy 1EC*, others	2.56 to 3.84 fl oz/A	lambda-cyhalothrin	1	24	Н					
Mustang Maxx*	1.28 to 4.0 fl oz/A	zeta-cypermethrin	1	12	Н					
Permethrin 3.2EC*, others	4.0 to 8.0 fl oz/A	permethrin	0	12	Н					
Tombstone*	0.8 to 2.8 fl oz/A	cyfluthrin	0	12	Н					
Warrior II*	1.28 to 1.92 fl oz/A	lambda-cyhalothrin	1	24	Н					
Combo products containing	a pyrethroid									
Besiege*	6 .0 to 9.0 fl oz/A	lambda-cyhalothrin + chlorantraniliprole (Group 28)	1	24	Н					
Endigo ZC* and ZCX*	4.0 to 4.5 fl oz/A	lambda-cyhalothrin + thiamethoxam (Group 4A)	1	24	Н					
Ridgeback*	5.5 to 13.8 fl oz/A	bifenthrin + sulfoxaflor (Group 4C)	3	24	Н					
Savoy EC*	6.0 to 12.9 fl oz/A	bifenthrin + acetamiprid (Group 4A)	7	12	Н					

Group 4A Neonicotinoid Insecticides Registered for Use on Musk and Mixed Melons

Apply one of the following for	Apply one of the following formulations (check if the product label lists the insect you intend to spray; the label is the law):								
Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee				
(*=Restricted Use)			(d)	(h)	TR				
Admire Pro	7.0 to 10.5 fl oz/A	imidacloprid - soil	21	12	Н				
Assail 30SG	2.5 to 5.3 oz/A	acetamiprid	0	12	М				
Actara 25WDG	1.5 to 5.5 oz/A	thiamethoxam	0	12	Н				
Platinum 75SG	1.66 to 3.67 oz/A	thiamethoxam	30	12	Н				
Belay 2.13SC	9.0 to 12.0 fl oz/A	clothianidin - soil/drip	21	12	Н				
Belay 2.13SC	3.0 to 4.0 fl oz/A	clothianidin - foliar (note: PHI: do not make	see note	12	Н				
		application after 4 th true leaf has unfolded)							

Group 4A Neonicotinoid Insecticides Registered for Use on Musk and Mixed Melons - continued next page

Scorpion 35SL	9.0 to 10.5 fl oz/A	dinotefuran - soil/drip	21	12	Н
Scorpion 35SL	2.0 to 7.0 fl oz/A	dinotefuran - foliar	1	12	Н
Venom 70SG	5.0 to 7.5 oz/A	dinotefuran - soil/drip	21	12	Н
Venom 70SG	1.0 to 4.0 oz/A	dinotefuran - foliar	1	12	Н
Combo products containing	a neonicotinoid				
Durivo	10.0 to 13.0 fl oz/A	thiamethoxam + chlorantraniliprole (Group 28)	30	12	Н
Endigo ZC* and ZCX*	4.0 to 4.5 fl oz/A	thiamethoxam + lambda-cyhalothrin (Group 3A)	1	24	Н
Savoy EC*	6 to 12.9 fl oz/A	acetamiprid + bifenthrin (Group 3A)	7	12	Н
Voliam Flexi	4.0 to 7.0 oz/A	thiamethoxam + chlorantraniliprole (Group 28)	1	12	Н

Group 4A Neonicotinoid Insecticides Registered for Use on Musk and Mixed Melons - continued

Disease Control

THE LABEL IS THE LAW-see the Pesticide Use Disclaimer on the first page of Chapter F. Recommended Fungicides

Nematode Control Use fumigants listed in section E 1.5. Soil Fumigation, or one of the nematicides below.

Code	Product Name	Product Rate	Active	PHI	REI	Bee
	(*=Restricted Use)		Ingredient(s)	(d)	(h)	TR
1A	Vydate L*	1.0 to 2.0 gal/A Incorporate into top 2-4 inches of soil, OR 2.0 to 4.0 pt/A apply 2 w after planting and repeat 2-3 w later.	oxamyl	1	48	Η
7	Velum Prime 4.16SC	6.5 to 6.84 fl oz/A	fluopyram	0	12	
	Nimitz 4EC	3.5 to 5.0 pt/A Incorporate or drip-apply 7 d before planting.	fluensulfone	n/a	12	Ν

<u>Seed Treatment</u> If seed has not been treated with a fungicide and insecticide, use a mixture of Thiram 480DP (4.5 fl oz/100 lb seed) and an approved commercially available insecticide.

Damping-off caused by Phytophthora, Pythium, and Rhizoctonia

Code	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
Apply o	ne of the following at-pla	nting (see label for application timing, methods, an	d restrictions):			
Phytopl	hthora and Pythium Root	Rot	,			
4	Ridomil Gold 4SL	1.0 to 2.0 pt/A	mefenoxam	5	48	Ν
4	Ultra Flourish 2E	2.0 to 4.0 pt/A	mefenoxam	5	48	Ν
4	MetaStar 2E AG	4.0 to 8.0 pt/A	metalaxyl	AP	48	Ν
49 + 4	Orondis Gold ¹	28.0 to 55.0 fl oz/A	oxathiapiprolin + mefenoxam	AP	48	N
Phytopl	hthora, Pythium, and Rhi	zoctonia Root Rot				
4 + 11	Uniform 3.66SE	0.34 fl oz/1000 ft row. Avoid direct seed contact, which may cause delayed emergence.	mefenoxam + azoxystrobin	AP	0	Ν
Rhizoct	onia root rot					
11	azoxystrobin 2.08F	0.40 to 0.80 fl oz/1000 ft row	azoxystrobin	1	4	Ν
Pythiun	n root rot only	•	•			
28	Previcur Flex 6F	1.2 pt/A in transplant water, drip irrigation, or direct spray at base of plant and soil	propamocarb hydrochloride	2	12	Ν

¹ may cause some yellowing in cucurbit leaves

Bacterial and Fungal Diseases

Alternaria Leaf Blight

Rotate muskmelons with unrelated crops. Begin sprays when vines begin to run, or earlier if symptoms are detected.

Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee			
(*=Restricted Use)			(d)	(h)	TR			
Begin sprays when vines begin to run. ALTERNATE one of the following:								
mancozeb 75DF1	2.0 to 3.0 lb/A ¹	mancozeb	5	24	Ν			
chlorothalonil 6F	2.0 to 3.0 pt/A	chlorothalonil	0	12	Ν			
	(*=Restricted Use) ys when vines begin to ru mancozeb 75DF ¹	(*=Restricted Use) ys when vines begin to run. ALTERNATE one of the follow mancozeb 75DF ¹ 2.0 to 3.0 lb/A ¹	(*=Restricted Use) g ys when vines begin to run. ALTERNATE one of the following: mancozeb 75DF ¹ 2.0 to 3.0 lb/A ¹	(*=Restricted Use) (d) ys when vines begin to run. ALTERNATE one of the following: (d) mancozeb 75DF ¹ 2.0 to 3.0 lb/A ¹ mancozeb	(*=Restricted Use) (d) ys when vines begin to run. ALTERNATE one of the following: mancozeb 75DF ¹ 2.0 to 3.0 lb/A ¹ mancozeb			

Alternaria Leaf Blight - continued next page

Alternaria Leaf Blight - continued

		ction (FRAC codes) should a	hlorothalonil 6F 2.0 to 3.0 pt/A every 14 day Jways be alternated	<i>,</i>		
7 + 11	Pristine 38WG ²	12.5 to 18.5 oz/A	boscalid + pyraclostrobin	0	12	
3 + 9	Inspire Super 2.82EW	16.0 to 20.0 fl oz/A	difenoconazole + cyprodinil	7	12	
3 + 11	Quadris Top 1.67SC ³	12.0 to 14.0 fl oz/A	difenoconazole + azoxystrobin	1	12	
7 + 12	Miravis Prime	9.2 to 11.4 fl oz/A	pydiflumetofen + fludioxonil	1	12	
7 + 11	Luna Sensation 4.25SC ⁴	7.6 fl oz/A	fluopyram + trifloxystrobin	0	12	
7 + 3	Luna Flex	8.0 fl oz/A	fluopyram + difenoconazole	0	12	
7 + 3	Luna Experience	8.0 to 17.0 fl oz/A	fluopyram + tebuconazole	7	12	
3 + 7	Aprovia Top 1.62EC	10.5 to 13.5 fl oz/A	difenoconazole + benzovindiflupyr	0	12	
7 + 11	Merivon 2.09SC ²	4.0 to 5.5 fl oz/A	fluxapyroxad + pyraclostrobin	0	12	Ν
3 + 11	Topguard EQ 4.29SC ^{3,5}	5.0 to 8.0 fl oz/A	flutriafol + azoxystrobin	1	12	
11	azoxystrobin 2.08F ^{3,5}	11.0 to 15.5 fl oz/A	azoxystrobin	1	24	Ν
11	Cabrio 20EG ²	12.0 to 16.0 oz/A	pyraclostrobin	0	12	Ν
11	Reason 500SC	5.5 fl oz/A	fenamidone	14	12	

¹The varieties 'Harvest Queen', 'Gold Star', 'Super Star', 'Sweet and Early', and 'Saticoy' are sensitive to mancozeb. ²Tank mixes of additives, adjuvants, and/or other products may result in crop injury. ³Do not apply near apples. ⁴A mild yellowing on leaf margins is sometimes seen following application of Luna Sensation in cucurbits. ⁵Do not tank mix with crop oil concentrates, methylated spray oil, or silicon adjuvants. Do not tank mix with Malathion, Thiodan, Lannate, MPede, or Botran.

Angular Leaf Spot and Bacterial Leaf Spot

At first sign of disease, apply the labeled rates of fixed copper plus mancozeb. Some copper-based products are OMRI listed and can be used in organic systems to help suppress Angular leaf spot and other fungal diseases. Repeat every 7 d. Avoid overhead irrigation when symptoms are present and working in field while foliage is wet.

Bacterial Wilt

Controlling striped and spotted cucumber beetles is essential for preventing bacterial wilt. See preceding "Cucumber Beetle" section under Insect Control for specific recommendations. Insecticide applications made at seeding may not prevent beetle damage all season; additional foliar insecticide applications may be necessary.

Downy Mildew

Scout fields for disease incidence beginning in early summer. Strains of Downy Mildew that infect one cucurbit crop may not affect other cucurbit crops. Unnecessary fungicide applications can be avoided by not spraying until disease is predicted in the region on melon or cucumber (check the Cucurbit Downy Mildew Forecasting website at: <u>https://cdm.ipmpipe.org</u>). **Preventative applications are much more effective than applications made after detection.** Materials with different modes of action (FRAC codes) should always be alternated. Tank mix with protectant if not included in the product.

Code	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee
	(*=Restricted Use)			(d)	(h)	TR
The follow	ving are the most effecti	ve products. Sprays should be applied	on a 7-day schedule.			
Under sev	ere disease conditions s	pray interval may be reduced IF the la	abel allows.			
49 + 40	Orondis Ultra 2.33SC	5.5 to 8.0 fl oz/A	oxathiapiprolin + mandipropamid	0	4	
21	Ranman 400SC	2.10 to 2.75 fl oz/A (do not apply	cyazofamid	0	12	L
		with copper; see label for details) ¹				
Other ma	terials for use in rotation	n as tank mix partners with a protecta	int:			
M03+22	Gavel 75DF ²	1.5 to 2.0 lb/A contains protectant	mancozeb + zoxamide	5	48	
M05+22	Zing! 4.9SC	36 fl oz/A contains protectant	chlorothalonil + zoxamide	0	12	Ν
M05+27	Ariston 42SC	1.9 to 3.0 pt/A contains protectant	chlorothalonil + cymoxanil	3	12	
11 + 27	Tanos 50DF	8.0 oz/A	famoxadone + cymoxanil	3	12	
27	Curzate 60DF	3.2 to 5.0 oz/A	cymoxanil	3	12	Ν
28	Previcur Flex 6F	1.2 pt/A	propamocarb hydrochloride	2	12	Ν
40	Forum 4.17SC	6.0 fl oz/A	dimethomorph	0	12	Ν
40 + 45	Zampro 525SC	14.0 fl oz/A	dimethomorph + ametoctradin	0	12	
43	Presidio 4SC	4.0 fl oz/A	fluopicolide	2	12	L
49+M05	Orondis Opti	1.75 to 2.5 pt/A	oxathiapiprolin + chlorothalonil	0	12	
29	Omega 500F	12.0 to 24.0 fl oz/A	fluazinam	30	12	Ν
22	Elumin 4SC	8.0 fl oz/A	ethaboxam	2	12	

¹Ranman should be tank mixed with an organosilicone surfactant when disease is severe, or a non-ionic surfactant or blend of organosilicone and non-ionic surfactant disease is moderate or light. ²The varieties 'Harvest Queen', 'Gold Star', 'Super Star', 'Sweet and Early', and 'Saticoy' are sensitive to mancozeb.

Fusarium Wilt

Rotate to allow 5 years between muskmelon plantings in any given location. Use resistant cultivars, when possible, see table Recommended Varieties. A FIFRA 2(ee) label for chemigation of Rhyme (FRAC code 3) to suppress Fusarium Wilt has been approved in DE, MD, PA, NJ. VA, and WV. See label for details.

Code	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee
	(*=Restricted Use)			(d)	(h)	TR
Applica	tion through drip irrig	ation or as a post-plant drench	n followed by two foliar applications may re	duce Fusai	ium W	ilt
early sea	ason:					
3	Proline 480SC ¹	5.7 fl oz/A	prothioconazole	7	12	
3 + 7	Propulse	13.6 fl oz/A	prothioconazole + fluopyram	7	12	
7	Velum	4.0 to 6.84 fl oz/A	fluopyram	0	12	
7 + 12	Miravis Prime	11.4 fl oz/A	pydiflumetofen+ fludioxonil	1	12	

¹Note: only one soil application of Proline is allowed per season.

Gummy Stem Blight

In the Mid-Atlantic regions, fungicide that only contain FRAC code 11 components are not recommended. Pristine, which contains both FRAC code 11 and 7 components, should always be tank-mixed with a protectant fungicide to reduce the possibility of resistance development. When tank-mixing, use at least the minimum labeled rate of each fungicide. Alternate fungicides with different modes of action. Do not apply FRAC code 11 fungicides more than 4 times total per season. Begin sprays when vines begin to run.

Code	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
Under L		apply the following every 7 days	5:	()	()	
M05	chlorothalonil 6F	2.0 to 3.0 pt/A	chlorothalonil	0	12	Ν
Under H	IGH DISEASE PRESSURE,	ALTERNATE:		•	•	
M05	chlorothalonil 6F	2.0 to 3.0 pt/A ¹	chlorothalonil	0	12	Ν
WITH A	TANK-MIX containing a pr	otectant fungicide (such as chlo	rothalonil) PLUS one of the following		•	
3	Proline 480SC	5.7 fl oz/A	prothioconazole	7	12	
3	tebuconazole 3.6F ²	8.0 fl oz/A	tebuconazole	7	12	Ν
3	Rhyme 2.08SC	5.0 to 7.0 fl oz/A	flutriafol	0	12	
3 + 9	Inspire Super 2.82EW	16.0 to 20.0 fl oz/A	difenoconazole + cyprodinil	7	12	
3 + 7	Aprovia Top 1.62EC	10.5 to 13.5 fl oz/A	difenoconazole + benzovindiflupyr	0	12	
7 + 3	Luna Flex	12.8 to 13.6 fl oz/A	fluopyram + difenoconazole	0	12	
7 + 3	Luna Experience 3.34SC ⁴	8.0 to 17.0 fl oz/A	fluopyram + tebuconazole	7	12	
7 + 11	Luna Sensation 4.25SC ⁴	7.6 fl oz/A	fluopyram + trifloxystrobin	0	12	
7 + 11	Merivon 2.09SC ³	5.5 fl oz/A	fluxapyroxad + pyraclostrobin	0	12	Ν
7 + 11	Pristine 38WG ³	12.5 to 18.5 oz/A	boscalid + pyraclostrobin	0	12	
9 + 12	Switch 62.5WG	11.0 to 14.0 oz/A	cyprodinil + fludioxonil	1	12	L
7 + 12	Miravis Prime	9.2 to 11.4 fl oz/A	pydiflumetofen + fludioxonil	1	12	

¹Use low rate early in season. ²Note: reduced sensitivity of the pathogen to tebuconazole has been found in the Southern U.S. ³Tank mixes of additives, adjuvants, and/or other products may result in crop injury. ⁴A mild yellowing on leaf margins is sometimes seen following application of a Luna Experience or Luna Sensation in cucurbits.

Phytophthora Crown and Fruit Rot

Multiple practices should be used to minimize the occurrence of this disease. Grow muskmelons on raised beds and drain fields adequately so that water will not accumulate around the base of the plants. Rotate away from susceptible crops (cucurbits, peppers, lima beans and beans, eggplants, and tomatoes) for as long as possible. Apply pre-plant fumigants to suppress disease. Apply fungicides when conditions are favorable for disease development. Fruit are susceptible at all growth stages and must be protected season-long.

1	<u> </u>	4								
Code	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee				
	(*=Restricted Use)			(d)	(h)	TR				
Apply on	Apply one of the following fungicides and tank mix with fixed copper at labeled rates when conditions favor disease development									
(for supp	ression only). Materials wi	th different modes of actio	n (FRAC codes) should always be alterna	ted to redu	ce the c	hances				
for fungi	cide resistance developmen	it:								
49 + 40	Orondis Ultra 2.33SC	5.5 to 8.0 fl oz/A	oxathiapiprolin + mandipropamid	0	4					
40 ± 4	Orandia Gald	4.8 to 0.6 fl oz/A	overhieningolin + motorover	0	4					

49 + 40	Orondis Ultra 2.33SC	5.5 to 8.0 fl oz/A	oxathiapiprolin + mandipropamid	0	4	
49 + 4	Orondis Gold	4.8 to 9.6 fl oz/A	oxathiapiprolin + mefenoxam	0	4	
40	Revus 2.08F	8.0 fl oz/A	mandipropamid	0	4	
40 + 45	Zampro 525SC	14.0 fl oz/A	dimethomorph + acetoctradin	0	12	
DI 11	<i>a</i> 15 . B					

Phytophthora Crown and Fruit Rot - continued next page

43	Presidio 4SC ¹	4.0 fl oz/A	fluopicolide	2	12	L
M03+22	Gavel 75DF ²	1.5 to 2.0 lb/A	mancozeb + zoxamide	5	48	
11 + 27	Tanos 50DF	8.0 to 10.0 oz/A	famoxadone + cymoxanil	3	12	
21	Ranman 400SC	2.75 fl oz/A (Do not apply with copper, see label details) ³	cyazofamid	0	12	L
40	Forum 4.17SC	6.0 fl oz/A	dimethomorph	0	12	Ν
49+M05	Orondis Opti	1.75 to 2.5 pt/A	oxathiapiprolin + chlorothalonil	0	12	
22	Elumin 4SC	8.0 fl oz/A	ethaboxam	2	12	
M05+22	Zing! 4.9SC	36.0 fl oz/A	chlorothalonil + zoxamide	0	12	Ν

Phytophthora Crown and Fruit Rot - continued

¹Presidio may also be applied through the drip irrigation (see supplemental label). ²The varieties 'Harvest Queen', 'Gold Star', 'Super Star', 'Sweet and Early', and 'Saticoy' are sensitive to mancozeb. ³Ranman should be tank mixed with an organosilicone surfactant when disease is severe, or a non-ionic surfactant or blend of organosilicone and non-ionic surfactant disease is moderate or light.

Powdery Mildew

Excellent host resistance is available (see table Recommended Varieties). The fungus that causes cucurbit Powdery Mildew has developed resistance to high-risk fungicides. In the Eastern US, resistance to strobilurin (FRAC code 11), SDHI (FRAC code 7), and DMI (FRAC code 3) fungicides has been reported. Proper fungicide resistance management should be followed to help delay the development of resistance and minimize control failures. Materials with different FRAC codes should always be alternated. Powdery Mildew generally occurs from mid-July until the end of the season. Scout fields for the presence of Powdery Mildew. If one lesion is found on the underside of 45 old leaves per acre, begin the following fungicide program:

Code	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee
	(*=Restricted Use)	1		(d)	(h)	TR
TANK M		h a protectant such as chloroth	alonil 6F 2.0 to 3.0 pt/A:	•		
50	Vivando 2.5SC ¹	15.4 fl oz/A	metrafenone	0	12	
13	Quintec 2.08SC	4.0 to 6.0 fl oz/A	quinoxyfen	3	12	
3 + 7	Luna Experience 3.34SC ²	6.0 to 17.0 fl oz/A	tebuconazole + fluopyram	7	12	
7 + 11	Luna Sensation 4.25SC ²	4.0 to 7.6 fl oz/A	fluopyram + trifloxystrobin	0	12	
AND AL	TERNATE with a TANK M	IX of one of the following and a	protectant such as chlorothalonil 6F 2	2.0 to 3.0	pt/A:	
3	Proline 480SC	5.7 fl oz/A	prothioconazole	7	12	
3	Procure 480SC	4.0 to 8.0 fl oz/A	triflumizole	0	12	Ν
3	Rally 40WSP	2.5 to 5.0 oz/A	myclobutanil	0	24	Ν
3	tebuconazole 3.6F	4.0 to 6.0 fl oz/A	tebuconazole	7	12	Ν
3 + 7	Aprovia Top 1.62EC	10.5 to 13.5 fl oz/A	difenoconazole + benzovindiflupyr	0	12	
3	Rhyme 2.08SC	5.0 to 7.0 fl oz/A	flutriafol	0	12	
7 + 11	Pristine 38WG ³	12.5 to 18.5 oz/A	boscalid + pyraclostrobin	0	12	
3 + 9	Inspire Super 2.82EW	16.0 to 20.0 fl oz/A	difenoconazole + cyprodinil	7	12	
P05	Regalia (OMRI)	4.0 qt/A	Extract of Reynoutria sachalinensis	0	4	
39	Magister 1.6SC ⁴	24.0 to 36.0 fl oz/A	fenazaquin	3	12	Н
7 + 12	Miravis Prime	9.2 to 11.4 fl oz/A	pydiflumetofen + fludioxonil	1	12	
U13	Gatten 5EC	6.0 to 8.0 fl oz/A	flutianil	0	12	
U06	Torino 0.85SC	3.4 fl oz/A	cyflufenamid	0	4	

¹Do not mix Vivando with horticultural oils. ²A mild yellowing on leaf margins is sometimes seen following application of Luna Experience and Luna Sensation in cucurbits. ³Tank mixes of additives, adjuvants, and/or other products may result in crop injury. ⁴Do not make more than one application per year of Magister.

Scab

The fungus that causes Scab typically occurs during periods of cool, wet weather when temperatures are below normal. Rotate away from fields with a history of Scab for at least 2 years.

Code	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR		
Begin sprays as true leaves form and repeat every 5-7 days:								
M05	chlorothalonil 6F	2.0 to 3.0 pt/A	chlorothalonil	0	12	Ν		

<u>Viruses</u>

The most prevalent virus in the Mid-Atlantic region is **WMV**, followed by **PRSV**, **ZYMV** and **CMV**. Plant fields as far away from existing cucurbit plantings as possible to help reduce the chances of aphid transmission of viruses from existing fields to new fields.

If you are having a medical emergency after using pesticides, always call 911 immediately.



In Case of an Accident

- Remove the person from exposure
- Get away from the treated or contaminated area immediately
- Remove contaminated clothing
- Wash with soap and clean water
- Call a physician and/or the National Poison Control Center (1-800-222-1222).
 Your call will be routed to your State Poison Control Center.
- Have the pesticide label with you!
- Be prepared to give the <u>EPA registration number</u> to the responding center/agency