

This is a section from the

# 2022/2023 Mid-Atlantic Commercial Vegetable Production Recommendations

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

The **full manual**, containing recommendations specific to New Jersey, can be found on the Rutgers NJAES website in the Publications section: http://njaes.rutgers.edu/pubs/publication.asp?pid=E001.

This manual will be revised biennially. In January 2023, a Critical Update with important updates to the 2022/2023 manual will be communicated through local Extension Agents and Vegetable Specialists.

The **label** is a legally-binding contract between the 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.

**Cooperating Agencies**: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Commissioners. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.

## F. Commodity Recommendations

#### Pesticide Use Disclaimer

#### THE LABEL IS THE LAW

Before using a pesticide, check the labeling distributed with the product at the point of sale for legally enforceable rates and use restrictions and precautions. Although labels are available on the Internet from electronic label services such as CDMS (http://www.cdms.net/), Greenbook (https://www.greenbook.net), or Agrian (https://www.agrian.com/labelcenter/results.cfm) 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:**

- 1. 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, https://hracglobal.com/) for herbicides, the Insecticide Resistance Action Committee (IRAC, https://irac-online.org/) for insecticides, and the Fungicide Resistance Action Committee (FRAC, https://www.frac.info/3) 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 INDIVIDUAL PRODUCT LABELING:
  - 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 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 <a href="https://www.omri.org/omri-lists">https://www.omri.org/omri-lists</a>).

### Beets (Garden)

Beets are frost tolerant and produce the best commercial quality when grown during cool temperatures (50-65°F, 10-18°C). Lighter color and wider zoning occur during rapid growth in warm temperatures. Beets will form seed stalks if exposed to temperatures below 50°F (10°C) for 2 or 3 weeks after several true leaves have formed. Beets have a high boron requirement - see Plant Nutrient Recommendations below.

#### Recommended Varieties<sup>1</sup>

Market	Hybrid	Days	Color	Shape	Use
Avalanche	No	50	White	Round	Roots, bunching
Boro	Yes	51	Red	Globe	Roots, tops, bunching, baby beets
Bulls Blood	No	58	Red with White Zones	Globe	Roots, tops (red)
Chioggia Guardsmark	No	60	Purple with White Zones	Globe	Roots
Cylindra	No	54	Red	Cylindrical	Roots, bunching
Eagle	Yes	50	Red	Globe	Roots, bunching
Early Wonder	No	52	Red	Globe	Greens, bunching
Fresh Pak	Yes	40	Green-Red leaves	Long	Greens
Greentop Bunching	No	58	Red	Round	Greens, bunching
Kestrel	Yes	53	Red	Globe	Roots, Bunching
Merlin	Yes	55	Red	Globe	Roots
Moneta (monogerm)	Yes	46	Red	Glove	Roots, Bunching
Red Ace	Yes	53	Red	Globe	Roots, bunching
Red Cloud	Yes	53	Red	Round	Roots, bunching
Ruby Queen	No	55	Red	Round	Roots, bunching
Solo	Yes	50	Red	Globe	Roots, bunching (mono-germ)
Touchstone Gold	No	60	Gold	Round	Roots, bunching
Zeppo	Yes	50	Red	Round	Roots, bunching

<sup>&</sup>lt;sup>1</sup>Listed alphabetically.

#### **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 recommendations found below.

		Soi	l Phospl	horus Le	evel	So	il Potas	sium Le	vel	
		Low	Med	High	Very	Low	Med	High	Very	
				(Opt)	High			(Opt)	High	
Beets <sup>1,2</sup>	N (lb/A)	P <sub>2</sub> O <sub>5</sub> (lb/A)			K <sub>2</sub> O (lb/A)				Nutrient Timing and Method	
	75-100	150	100	50	0	150	100	50	0	Total nutrient recommended
	50	150	100	50	0	150	100	50	0	Broadcast and disk-in
	25-50	0	0	0	0	0	0	0	0	Sidedress 4-6 weeks after planting

<sup>&</sup>lt;sup>1</sup>Apply 1.5-3 lb/A of boron (B); see also Table B-7. in chapter B Soil and Nutrient Management.

#### **Boron Deficiency and Black Spot**

Boron (B) deficiency can cause black spots inside roots and large black dry rots on root surfaces. B deficiency is most likely to occur in alkaline soils high in calcium and is exacerbated by dry conditions. Apply B at planting according to soil test results.

#### **Seed Treatment**

Use treated seed to prevent disease, see Disease Control below for more information.

#### **Seeding and Spacing**

Seed from early April to mid-August. Germination temperatures range from 50-85°F (10-29°C). For fresh market beets, sow seeds ½ inch deep at the rate of 12 seeds/ft of row. Space rows 15-20 inches apart; thin plants to 3 inches apart. Narrow row systems with between row spacings of 6-12 inches and in-row seeding rates of 8 seeds per foot are appropriate for processing beets. Processing beets are precision planted to achieve final stands for intended processing use. Beet "seeds" are dried fruits with 1-3 seeds. Seed companies can provide sprout counts to determine seeding rates more accurately for precision planting.

<sup>&</sup>lt;sup>2</sup>Apply 25-30 lb/A of sulfur (S) for most soils.

#### Harvest and Post-Harvest Considerations

Market beets are harvested when they reach a size of 1.5-3 inches in diameter. Beet tops for greens may be cut and handled like spinach or Swiss chard. For bunching beets, roots are undercut and carefully pulled by the tops. For larger acreages, beets for roots may be topped and machine dug using a modified potato digger.

Store beets at 32°F (0°C) and 98-100% relative humidity. Like other root crops, beets are well adapted to storage. Topped beets stored at 32°F can keep 4-6 months. Cold storage or cool-cellar storage are both suitable, provided the humidity is kept sufficiently high to prevent dehydration. Before storage, beets should be topped and sorted to remove the ones with disease symptoms or mechanical injuries. Beets should not be stored in large bulk. They should be stored in well-ventilated containers such as ventilated bin boxes or slatted crates to help dissipate respiratory heat. Increased carbon dioxide concentrations (5-10%) in beet storage increases fungal spoilage.

Bunched beets and beet greens are much more perishable than topped beets, but they can be stored at 32°F for 10-14 days. A relative humidity of at least 95% is desirable to prevent wilting. Air circulation should be adequate to remove respiration heat but not so rapid that it speeds up transpiration and wilting. Satisfactory precooling is accomplished by vacuum cooling or hydrocooling. Crushed ice helps keep the bunched beets cold, especially if refrigeration is not available. Bunched beets are commonly shipped with package and top ice to maintain freshness.

#### **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.

1. Soil-Applied (Pre-plant Incorporated)									
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)			
8	Ro-Neet 6E	1.67 to 2 qt/A	cycloate	2.5 to 3 lb/A		48			
	-Pre-plant incorporated only; incorporate into 3 to 4 inches of soil immediately after application. Plant any time after treatment. Use on mineral soils <b>only</b> . Use lower rate on sandy soils and higher rate on heavier soils.								

2. Poste	2. Postemergence									
Group	Product Name	Product Rate	Active Ingredient	Active Ingredient Rate	PHI	REI				
	(*=Restricted Use)			-	(d)	(h)				
1	Select 2EC	6 to 8 fl oz/A,	clethodim	0.07 to 0.125 lb/A	30	24				
	Select Max 0.97EC	9 to 16 fl oz/A								
	Poast 1.5EC	1 to 2.5 pt/A	sethoxydim	0.2 to 0.5 lb/A	60	12				

-Select 2EC: use crop oil concentrate (COC) at 1% v/v (1 gal/100 gal of spray solution). Select Max: use nonionic surfactant (NIS) at 0.25% v/v (1 qt/100 gal of spray solution). Poast: Apply with COC at 1.0% v/v. -The use of COC may increase the risk of crop injury when hot or humid conditions prevail. To reduce the risk of crop injury, omit additives or switch to NIS when grasses are small and soil moisture is adequate. -Use lower labeled rates for annual grass control and higher labeled rates for perennial grass control.

-Yellow nutsedge, wild onion, wild garlic, and broadleaf weeds will not be controlled.

-Do not apply over 150 lb N/A when applying this herbicide in conjunction with a fluid fertilizer.

- -Controls many annual and certain perennial grasses, including annual bluegrass, but Poast is preferred for goosegrass control. For best results, treat annual grasses when they are actively growing and before tillers are present. Control may be reduced if grasses are large or under hot or dry weather conditions. Repeated applications may be necessary to control certain perennial grasses. If repeated applications are necessary, allow 14 days between applications.
- **-Do not** tank mix with or apply within 2 to 3 days of any other pesticide, unless labeled, as this may increase the risk of crop injury or reduce the control of grasses. **Do not** apply more than 8 fl oz of Select 2EC in a single application and **do not** exceed 2 pt/A for the season; **do not** apply more than 16 fl oz of Select Max in a single application and **do not** exceed 4 pt/A for the season.

-Do not apply more than 2.5 pt/A Poast in a single application and do not exceed 5 pt/A for the season. Rainfastness is 1 h.

	1 2	8 11				
5	Spin-Aid 1.3EC*	1.5 to 3 pt/A	phenmedipham	0.244 to 0.488 lb/A	60	12

-For use in DE, MD, NJ, PA, and VA only. See label for application restrictions, mixing instructions, and weather restriction to prevent crop injury or herbicide failure. Multiple applications may be applied to ground to control early germinating weeds. Apply

<sup>2.</sup> Postemergence Spin-Aid - continued next page

#### F. Beets (Garden)

#### 2. Postemergence Spin-Aid - continued

- 1.5 pt/A after the 2-leaf stage. Increase rate up to 2.3 pt/A after the 4-leaf stage. Increase rate up to 3 pt/A after the 6-leaf stage. Repeat applications may be made 5 to 7 days later, or when another flush of weeds germinates. A maximum of 3 applications is allowed.
- -Spin-Aid is effective on brassica species including wild mustard, shepherdspurse, and London rocket. Other weeds controlled include common chickweed, common lambsquarters, groundcherry, purslane, common ragweed, and annual sowthistle.
- **-Do not** apply this product through any type of irrigation system. **Do not** spray when conditions for drift are favorable or while dew is present. Leave a 16 ft buffer from the treated area when the wind direction is toward sensitive plants.
- -Spin-Aid may cause injury if the crop is under stress as the result of rapid changes in weather from cool, overcast days to hot (>75°F), bright days; windy conditions; drought; use of pre-plant herbicides, preemergence herbicides, or other chemicals; insect or disease injury; or close cultivation. Rainfastness is 6 h.

**3. 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	UpBeet	triflusulfuron
4	Stinger	clopyralid
14	Vida	pyraflufen
14	Aim	carfentrazone

#### **Insect Control**

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

#### **Aphids**

Apply o	ne of the following forn	nulations:				
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee
	(*=Restricted Use)			(d)	(h)	TR
3A	Brigade 2EC*	5.12 to 6.40 fl oz/A	bifenthrin	1	12	Н
4A	Admire Pro	4.4 to 10.5 fl oz/A	imidacloprid - soil	21	12	Н
4A	Admire Pro	1.2 fl oz/A	imidacloprid - foliar	7	12	Н
4A	Actara 25WDG	1.5 to 3.0 oz/A	thiamethoxam	7	12	Н
4A	Platinum 75SG	1.70 to 4.01 oz/A	thiamethoxam	AP	12	Н
4C	Transform WG	0.75 to 1.5 oz/A	sulfoxaflor	7	24	Н
4D	Sivanto Prime	7.0 to 14.0 fl oz/A	flupyradifurone - foliar	7	4	M
29	Beleaf 50SG	2.0 to 2.8 oz./A	flonicamid	3	12	L

#### **Beet Armyworms and Webworms**

Apply o	Apply one of the following formulations:										
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR					
5	Blackhawk 36WG	2.25 to 3.5 oz/A	spinosad	3	4	M					
5	Radiant SC	6.0 to 8.0 fl oz/A	spinetoram	7	4	M					
11A	XenTari (OMRI)	0.5 to 2.0 lb/A	Bacillus thuringiensis aizawai	0	4	N					
18	Intrepid 2F	4.0 to 10.0 fl oz/A	methoxyfenozide	1	4	L					
22	Avaunt 30WDG, Avaunt eVo	3.5 to 6.0 oz/A	indoxacarb	7	12	Н					
28	Coragen 1.67SC	3.5 to 7.5 fl oz/A	chlorantraniliprole - foliar	1	4	L					
28	Vantacor	1.2 to 2.5 fl oz/A	chlorantraniliprole - foliar	1	4	L					
28+3A	Elevest*	5.6 to 9.6 fl oz/A	chlorantraniliprole + bifenthrin	21	12	Н					

#### Flea Beetles

Apply or	Apply one of the following formulations:										
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee					
	(*=Restricted Use)			(d)	(h)	TR					
1A	Sevin XLR Plus	0.5 to 1.0 qt/A	carbaryl	7	12	Н					
3A	Brigade 2EC*	5.12 to 6.40 fl oz/A	bifenthrin	1	12	Н					
3A	Hero EW*	2.6 to 6.1 fl oz/A	zeta-cypermethrin + bifenthrin	1	12	Н					
3A	Mustang Maxx*	1.76 to 4.0 fl oz/A	zeta-cypermethrin	1	12	Н					

Flea Beetles - continued next page

Flea Beetles - continued

4A	Admire Pro	4.4 to 10.5 fl oz/A	imidacloprid - soil	21	12	Н
4A	Admire Pro	1.2 fl oz/A	imidacloprid - foliar	7	12	Н
4A	Actara 25WDG	1.5 to 3.0 oz/A	thiamethoxam	7	12	Н
4A	Platinum 75SG	1.70 to 4.01 oz/A	thiamethoxam	AP	12	Н

#### Leafminers

Apply or	Apply one of the following formulations:									
Group	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee				
	(*=Restricted Use)			(d)	(h)	TR				
5	Blackhawk 36WG	2.25 to 3.5 oz/A	spinosad	3	4	M				
5	Entrust SC (OMRI)	4.5 to 10.0 fl oz/A	spinosad	3	4	M				
5	Radiant SC	6.0 to 8.0 fl oz/A	spinetoram	7	4	M				

#### **Disease Control**

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

#### **Seed Treatment**

Use seed treated with Apron XL (0.085 to 0.64 fl oz/100 lb) or Allegiance FL (0.75 fl oz/100 lb) for *Pythium* damping-off protection *plus* Maxim 4FS (0.08 to 0.16 fl oz/100 lb) for *Rhizoctonia* and *Fusarium* protection. Seed treatments are not a substitute for high quality seed.

#### Damping-off caused by Phytophthora, Pythium, and Rhizoctonia

Code	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee					
	(*=Restricted Use)			(d)	(h)	TR					
Apply one	Apply one of the following pre-plant incorporated or as a soil-surface spray after planting:										
4	Ridomil Gold 4SL	1.0 to 2.0 pt/A	mefenoxam	0	48	N					
4	Ultra Flourish 2E	2.0 to 4.0 pt/A	mefenoxam	0	48	N					
4	MetaStar 2E AG (see label)	4.0 to 8.0 pt/A	metalaxyl	14	48	N					
Apply the	Apply the following as an in-furrow spray only for <i>Pythium</i> and <i>Rhizoctonia</i> control:										
4 + 11	Uniform 3.66SE <sup>1</sup>	0.34 fl oz/1000 ft row	mefenoxam + azoxystrobin	AP	0	N					

#### **Bacterial and Fungal Diseases**

#### Leaf Spots (Cercospora and Alternaria) and other foliar diseases

Allow 2 to 3 years between beet plantings. Thoroughly disc under crop residues as pathogens can overwinter on residues. Warm, wet weather and rainfall favor leaf spot development. Scout plantings regularly, especially if wet weather persists. Apply one of the fungicides listed below preventatively and/or when weather conditions are favorable for disease development. Repeat every 7 to 10 days.

**Do not** make more than 2 sequential applications of Cabrio, or 1 application of a FRAC code 11 fungicide, before alternating to a non-FRAC code 11 fungicide. **Tank mix fungicides with fixed copper** to help reduce fungicide resistance development. Resistance of Cercospora Leaf Spot (CLS) to FRAC code 11 has been reported in table and sugar beets and to FRAC code 3 in sugar beets. In cases of suspected resistance, tank mixing a copper-based fungicide with the biofungicides Double Nickel (OMRI), LifeGard (OMRI) or Regalia (OMRI) have provided some suppression of CLS. Repeated scouted is needed during the season to identify potential cases of fungicide resistance.

Code	Product Name	Product Rate	Active Ingredient(s)	PHI	REI	Bee		
	(*=Restricted Use)			(d)	(h)	TR		
M01	copper (OMRI) <sup>1</sup>	at labeled rates	copper	0	48	N		
Rotate one of the following FRAC code 11 fungicides plus a fixed copper at labeled rates:								
11	azoxystrobin 2.08F <sup>2,3</sup>	6.0 to 15.5 fl oz/A <sup>2,3</sup>	azoxystrobin	0	4	N		
11	Cabrio 20EG	8.0 to 12.0 oz/A	pyraclostrobin	0	12	N		

Leaf Spots (Cercospora and Alternaria) and other foliar diseases - continued next page

#### F. Beets (Garden)

Leaf Spots (Cercospora and Alternaria) and other foliar diseases - continued

11	Flint Extra 500SC	2.0 to 2.9 fl oz/A	trifloxystrobin (Do not apply near	7	12	N
			Concord grapes, see label)			
11	Reason 500SC <sup>4</sup>	8.2 fl oz/A <sup>4</sup>	fenamidone	14	12	
With one of the following:						
3	tebuconazole 3.6F	4.0 to 6.0 fl oz/A	tebuconazole	7	12	N
3	Tilt 3.6EC <sup>5</sup>	3.0 to 4.0 fl oz/A <sup>5</sup>	propiconazole	14	12	N
7	Fontelis 1.67SC	16.0 to 30.0 fl oz/A	penthiopyrad	0	12	L
7 + 9	Luna Tranquility 4.16SC	8.0 to 11.2 fl oz/A	fluopyram + pyrimethanil	7	12	
7 + 11	Merivon 2.09SC	4.0 to 5.5 fl oz/A <sup>6</sup>	fluxapyroxad + pyraclostrobin	7	12	N
7 + 12	Miravis Prime	6.8 fl oz/A	pydiflumetofen + fludioxonil	7	12	

<sup>&</sup>lt;sup>1</sup>There are several OMRI listed copper-based products; see labels for specifics. Copper applications may help suppress some fungal pathogens in organic production systems.

#### Pocket Rot, Wirestem, Stem Canker, and Crown Rot (Rhizoctonia solani)

Pocket rot and other diseases caused by *Rhizoctonia* are most prevalent in cool, wet soils and especially in plantings

showing poor plant vigor. Rotate between fields each year and scout on a regular basis.

Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
11	azoxystrobin 2.08F <sup>1</sup>	0.40 to 0.80 fl oz/1000 ft row, banded or in-furrow	azoxystrobin	0	4	N
4+11	Uniform 3.66SE 1,2	0.34 fl oz/1000 ft row	mefenoxam + azoxystrobin	AP	0	N

<sup>&</sup>lt;sup>1</sup>See label for specific details. <sup>2</sup>Also for *Pythium* damping-off

<sup>&</sup>lt;sup>2</sup>Use 9.0 to 15.5 fl oz/A for Cercospora Leaf Spot

<sup>&</sup>lt;sup>3</sup>Poor control with azoxystrobin (FRAC code 11) has been reported in southern NJ and across NY

<sup>&</sup>lt;sup>4</sup>Alternaria Leaf Spot suppression only

<sup>&</sup>lt;sup>5</sup>Cercospora Leaf Spot only

<sup>&</sup>lt;sup>6</sup>Use 5.5 fl oz/A for Cercospora Leaf Spot

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

If you have any of the following symptoms during or shortly after using pesticides: headache, blurred vision, pinpoint pupils, weakness, nausea, cramps, diarrhea, and discomfort in the chest, call a physician and the National Poison Control Center hotline (1-800-222-1222).

#### Your call will be routed to your State Poison Control Center.

Anyone with a pesticide exposure poisoning emergency can call the toll-free telephone number for help. Personnel at the Center will give you first-aid information and direct you to local treatment centers if necessary.

For immediate medical attention call 911. Prompt action and treatment may save a life.



#### 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 the Poison Control Center (1-800-222-1222) or agency in your state.
- Have the pesticide label with you! Follow the First Aid Precautionary Statements.
- Be prepared to give the EPA registration number to the responding center/agency.