

Section 1: General Information

1) Please answer the following for last year:

a) How many total acres did you farm? _____ ac.

b) How many acres were devoted to sweet corn? _____ ac.

c) How much marketable sweet corn did you produce? _____ doz ears, ears, tons

d) Approximately what percentage of your sweet corn was sold in each of the following markets?

fresh market wholesale _____ % fresh market retail _____ % processing _____ %

e) When did you first plant and harvest sweet corn?

First planting date: _____ Last planting date: _____

First harvest date: _____ Last harvest date: _____

2) What level of yield can you expect to achieve in a normal year (per acre)? _____ doz ears, ears, tons

3) What is your ZIP code? _____

4) Do you consider yourself an IPM grower? Yes No

5) Please indicate how important each of the following considerations are to you when choosing pesticides:

<i>Item</i>	<i>Importance</i>
effectiveness of the pesticide	<input type="checkbox"/> not important <input type="checkbox"/> somewhat important <input type="checkbox"/> very important
impact on ground and/or surface water	<input type="checkbox"/> not important <input type="checkbox"/> somewhat important <input type="checkbox"/> very important
cost	<input type="checkbox"/> not important <input type="checkbox"/> somewhat important <input type="checkbox"/> very important
availability of chemicals (e.g. leftover from other crops)	<input type="checkbox"/> not important <input type="checkbox"/> somewhat important <input type="checkbox"/> very important
safety of workers	<input type="checkbox"/> not important <input type="checkbox"/> somewhat important <input type="checkbox"/> very important
impact on beneficial insects	<input type="checkbox"/> not important <input type="checkbox"/> somewhat important <input type="checkbox"/> very important
impact on other non-target organisms (e.g. birds fish)	<input type="checkbox"/> not important <input type="checkbox"/> somewhat important <input type="checkbox"/> very important

7) Who applied most of your pesticides on sweet corn fields last year?

self, partner or family member employee

commercial pesticide applicator other (specify) _____

no pesticides were applied

8) Who did most of the pest scouting on your sweet corn fields last year?

self, partner or family member an employee or paid scout

commercial pesticide applicator other (specify) _____

sweet corn fields were not scouted

Section 2: Pests

Please provide your best estimate of how severe each pest was over the past year on your farm relative to your perception of the average severity on the average Massachusetts sweet corn farm. Enter a number from 0 to 3, where:

- 0 - indicates the pest was completely absent
- 1 - indicates the pest population was relatively low.
- 2 - indicates the pest population was moderate or average and,
- 3 - indicates the pest population was relatively high.

Pest	Severity				
Insects	Less ←→ More				
European Corn Borer	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Corn Earworm	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Fall Armyworm	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Corn Flea Beetle	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Corn Leaf Aphid	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Corn Rootworm	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Seed Corn Maggot	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Cutworms	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Sap Beetles	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Weeds	Less ←→ More				
perennial weeds	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
annual broadleaf weeds	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
annual grasses	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Diseases	Less ←→ More				
Stewart's Wilt	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Smut	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Anthraxnose	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Maize Dwarf Mosaic	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Seed Rot	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Northern Corn Leaf Blight	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know
Rust	<input type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> don't know

Section 3: Chemical Pest Control

A list of common sweet corn pesticide formulations is attached for reference

While completing this section, please think about a **typical sweet corn planting** last year on your farm. Next, provide information on each pesticide application by indicating the pesticide products you used and the rate at which they were applied.

Herbicides

# of IDENTICAL Applications	Product Used	Formulation	Application Method	Rate (per acre)

Insecticides (please include soil insecticides)

# of IDENTICAL Applications	Product Used	Formulation	Application Method	Rate (per acre)

Fungicides

# of IDENTICAL Applications	Product Used	Formulation	Application Method	Rate (per acre)

Section 4: Production Practices

Please indicate (with a 2) which of the following statements are true about your sweet corn management practices last year.

Corn stubble was turned under or harrowed before planting

Sweet corn was rotated with other crops.

A winter cover crop was used for weed control.

Sprayers were calibrated at the start of the season.

Separate sprayers were used for insecticides and herbicides.

Sprayer calibration was checked at least once during the season.

A boom sprayer with double drop nozzles was used where coverage of the ear zone was desirable.

When a mist blower was used for ear zone coverage, blocks were not more than 12 rows wide.

Records of planting and harvest dates of treated fields were maintained by block.

Pesticide coverage of target and non-target areas was tested using water sensitive spray cards.

corn earworm (CEW) populations were monitored using pheromone traps

European corn borer (ECB) populations were monitored using pheromone traps

fall armyworm (FAW) populations were monitored using pheromone traps

Insecticides applied to control corn earworm (CEW) corresponded to recommended thresholds

Insecticides applied to control European corn borers (ECB) corresponded to recommended thresholds

Insecticides applied to control fall armyworm (FAW) corresponded to recommended thresholds

Other insect pests for which thresholds are not available, were treated only after scouting.

Floating row covers were used in early corn through the whorl stage to inhibit ECB.

Insects were successfully kept below the economic injury level through non-chemical means such as biological insecticides (e.g. B.t.'s) or beneficial insects on part of the sweet corn acreage.

Sweet corn fields were scouted for weeds during the previous season and a weed map was created.

Weeds were controlled by cultivation and no herbicide was applied.

Herbicide rates were reduced through banding of herbicides and cultivation.

Herbicide rates were reduced through delayed application of reduced rates of the herbicide(s).

Weeds in fields, alleys and roadways were prevented from going to seed.

Tolerant/resistant varieties were used to control Stewart's wilt or maize dwarf mosaic virus (MDMV)

Common Pesticide Formulations for Sweet Corn

The following tables list some insecticide, herbicide and fungicide formulations commonly used on sweet corn. This list is provided for reference only and is not intended to be exhaustive – if you used a pesticide that is not in the tables, please list it anyway. ('Usual rates' are not intended to be prescriptive.)

Table 1: Common Herbicide Formulations

Trade Name	Common Name	Usual Rate per Acre
2,4-D Amine	2,4-D	0.5 - 4 pt
Aatrex, atrazine (4L)	atrazine	2.4 - 4 pt
atrazine (4FL)	atrazine	1 - 1.5 qt
atrazine (WDG,90DF)	atrazine	1.3 - 1.8 lb.
Banvel (WS)	dicamba	0.5 - 1 pt
Basagran	bentazon	1.5 - 2 pt
Biocep (II)	atrazine + metolachlor	2.4 - 3 qt
Biocep (II - Lite)	atrazine + metolachlor	2.4 - 3.5 qt
Bladex (4L)	cyanazine	2 - 3 qt
Bladex (90 DF)	cyanazine	0.6 - 0.8 lb
Bullet	alachlor+atrazine	2.5 - 4.5 qt
Dual (II)	metoachlor	1.5 - 3 pt
Dual (8E)	metoachlor	1.5 - 3 pt
Eradicane (6.7-E)	EPTC	4.75 - 7.33 pt
Eradicane (25-G)	EPTC	16 - 24 lb
Extrazine II (4L)	cyanazine + atrazine	
Extrazine II (DF)	cyanazine + atrazine	
Frontier (6.0)	dimethenamid	16 - 32 fl oz
Gramoxone Extra	paraquat	1.5 - 3 pt
Laddock (5L)	bentazon+atrazine	1.3 - 2.3 pt
Lasso	alachlor	2 - 4 qt
Morotach	alachlor	2 - 4 qt
Partner (WDG)	alachlor	2 - 4 qt
Prowl (3.3EC)	pendimethalin	1.8 - 4.8 pt
Princep (4L)	simazine	4 - 8 pt
Sutan+ (6.7-E)	butylate	4.75 pt

Table 2: Common Insecticide Formulations

Trade Name	Common Name	Usual Rate per Acre
Ambush 2E	permethrin	6.4 - 12.8 fl oz
Ambush 25W	permethrin	6.4 - 12.8 oz
Asana XL	esfenvalerate	2.9 - 5.8 fl oz
Aztec 2.1G	tebufenpyrifos + cyfluthrin	5.5 - 7.3 lb
Baythroid 2EC	cyfluthrin	0.8 - 2.8 fl oz
Counter 15G	terbufos	8 oz / 1000 ft. row
diazinon 14G	diazinon	21 - 28 lb
Force 3G	tefluthrin	4 - 5 oz / 1000 ft row
Fortress 2.5G	chlorothoxyfos	6 oz / 1000 ft row
Furadan 4F	carbofuran	1 - 2 pt
Karate 1E	lambda-Cyhalothrin	2.5 - 3.8 fl oz
Lannate SP	methomyl	0.3 - 0.5 lb
Lannate LV	methomyl	1 - 1.5 pt
Larvin 3.2	thiocarb	20 - 30 fl oz
Lorsban 4E	chlorpyrifos	2 - 6 pt
Lorsban 15G	chlorpyrifos	6.7 - 13.5 lb
Metasystox-R SC	oxydemeton-methyl	1.5 - 2 pt
PennCap-M	methyl parathion	2 - 4 pt
Pounce 1.5G	permethrin	6.7 - 13.3 lb
Pounce 3.2EC	permethrin	4 - 8 oz
Pounce 25WP	permethrin	6.4 - 12.8 oz
Sevin 4F,XLR	carbaryl	1 - 3 pt
Sevin 50W	carbaryl	1 - 3 lb
Sevin 80S,80WSP	carbaryl	0.7 - 1.9 lb
Sevin Bait 5%	carbaryl	40 lb
Thiodan 3EC	endosulfan	1.33 - 2 qt
Warrior 1E	lambda-Cyhalothrin	2.5 - 3.8 fl oz