STRAWBERRY

Strawberry Spray Schedule

Section Editors: Entomology: R. Bessin, E. Long, C. Welty, and J.Beckerman
Plant Pathology: J. Beckerman, and M. Heller-Haas

Strawberry Pre-plant

These treatments are only recommended if a pathogen has been diagnosed on the transplants or if transplants are going into a site with a history of disease problems. Prior to planting, dip entire plants for 2-5 minutes, and transplant as quickly as possible. Do not reuse solution. Delayed planting may cause plant stunting.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown rot	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Abound (SC)	11	5-8 fl. oz.	6.0-15.5 fl. oz.	4h	61.5 fl. oz.
azoxystrobin		G[r]	E	0d	NA
Aliette WDG	33	x	2 pt./100 g	12h	30 lb.
fosetyl-AL			E	1d	NA
Prophyt	33	x	2.5-5 lb.	4h	NA
fosetyl-AL			E	0d	NA
Rampart	33	x	1-3 qt.	4h	NA
			E	0d	NA
Switch 62.5WG	9+12	11.0-14 oz.	x	12h	56 oz.
cyprodinil + fludioxonil		G		0d	NA

Leather Rot and Red Stele Management at Pre-plant

Several phosphorous acid fungicides are labeled for control of red stele and leather rot. They all have essentially the same active ingredient. These productsinclude Agri-Fos, Aliette, ProPhyt, Phostrol, and Rampart. These materials are highly systemic as foliar sprays for Leather rot control or as root dip for red stele control. Rates, recommendations for use, and prices vary among products.

Ridomil is labeled for control of red stele and leather rot, caused by a number of *Phytophthora* species. Treatment for perennial strawberries includes one application in the spring after the ground thaws but before first bloom, and a second application in the fall. For supplemental controlof leather rot, an application may be made at fruit set.

Strawberry Early Spring (Pre-bloom) Disease Management Apply when new leaves are expanding and blossom buds are visible.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown rot	Anthracnose fruit rot	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Abound (SC)	11	5-8 fl. oz.	x	x	x	x	6.0-15.5 fl. oz.		4h	61.5 fl. oz
azoxystrobin		G[r]					G	E	0d	NA
Aftershock/Evito 480SC	11	2.0-5.7 fl. oz		x	x	x	2.0-5.7 fl. oz	x	12h	22.8 fl. oz
fluoxystrobin		G					G		1d	4
Aliette WDG	33	x	x	x	x	x	x	2 .5- 5 lb	12h	30 lb.
fosetyl-AL								E	1d	NA
Cabrio EG (20EG)	11	12-14 oz.		x	x	12-14 oz.			12h	70 oz.
pyraclostrobin		E	G			G	E	E	0d	NA
Captan (80WDG)	M	1.87-3.75 lb.					x	x	24h	30 lb.
captan		G	F	G					0d	NA
CaptEvate (68WG)	M	3.5-5.25 lb.			x	3.5-5.25 lb.	x	x	48h	21 lb.
captan + fenhexamid		G	F			G			30d	NA
Copper, assorted	M1	x	x	see label			x	x	See label	NA
copper				F					NA	NA
Flint Extra	11	2.5-3.0 fl.oz.			x	x	2.5-3.0 fl.oz.	x	12h	18 fl. oz.
trifloxystrobin (higher rate)		G	E	G			G		0d	6
Fontelis (SC)	7	16-24fl. oz.		x	x	x	16-24 fl. oz.	x	12h	72 fl. oz.
penthiopyrad		G	E				E		0d	NA
Fracture	M12	x	x	x	x	x	20.5-24.4 fl.oz.	x	4 h	NA
Banda de Lupinus alba doce							G		1d	5
Intuity (SC)	11	x	x	x	x	x	6 fl.oz.	x	12h	12 fl. oz.
mandistrobin							s-E		0d	2
Kenja 400SC	7	13.5-15.5 fl.oz.		x	x	x	13.5-15.5 fl.oz.	x	12h	54 fl. oz.
isofetamid		u					G		0d	NA
Luna Privilege	7	3.2-6.84 fl.oz.		x	x	3.2-6.84 fl.oz.		x	12 h	13.7 fl. oz
fluopyram		G	G			G	G		NL	2

Strawberry Early Spring (Pre-bloom) Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown rot	Anthracnose fruit rot	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Luna Sensation (SC)	7+11	4-7.6 fl.oz.		x	x	4-7.6 fl.oz.			12h	27.1 fl. oz.
fluopyram + trifloxystrobin		E	E			G	E	E	0d	NA
Luna Tranquility (SC)	7+9	x	x	16-27 fl.oz.	x	16-27 fl.oz.		x	12h	54.7 fl. oz.
fluopyram + pyrimethanil				G		G	E		1d	NA
Merivon	7+11	4-8 fl.oz.						x	12h	33 fl. oz.
fluxapyroxad + pyraclostobin		E	E	E	G	E	F		0d	3
Mettle 125ME	3	x	x	3-5 fl. oz.				x	12h	20 fl. oz.
tetraconazole		x	x	G	G	G	E		0d	4
Miravis Prime	7+12	9.1-13.4 oz.			x	x	9.1-13.4 oz.	x	12 h	27.2 oz
pydiflumetofen + fludioxanil		E	E	G			G		0 d	4
PhD, Affirm	19	6.2 oz		x	x	x	6.2 oz	x	4h	NA
Polyoxin D		G	G				G		0d	NA
Phosphorous acid:Phosphyt, Rampart, etc.	33	x	x	x	x	x		see label	4h	NA
phosphorous acid							x	E-F	0d	NA
Protocol (L)	1+3	1.3 pt		x	x	1.3 pt		x	24h	5.3 pt.
thiophanate-methyl + propiconazole		G[r]	G[r]			G[r]	G[r]		1d	NA
Pristine	7+11	18.5-23 oz.			x	18.5-23 oz.			12h	115 oz.
pyraclostrobin + boscalid		G	E	G		G	E	E	0d	5
Procure 480SC	3	x	x	x	x	x	4-8 fl.oz.	x	12h	32 fl. oz.
triflumizole							G		1d	NA
Quadris Top (SC)	3+11	12-14 fl.oz.		x	x	12-14 fl.oz.		x	12h	56 fl. oz.
difenoconazole + azoxystrobin		G	E			G	G		0d	4
Quilt Xcel (SE)	11+3	14 fl.oz.		x	x	x	14 fl.oz.	x	12h	56 fl. oz.
azoxystrobin + propiconazole		G	G			x	E		0d	4

Strawberry Early Spring (Pre-bloom) Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown rot	Anthracnose fruit rot	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Quintec 2.08F	13	x	x	x	x	x	4-6 fl.oz.	x	24h	24 fl. oz.
quinoxyfen							E		1d	4
Rally 40WSP	3	x	x	2.5-5 oz.	x	2.5-5 oz.		x	24h	30 oz.
myclobutanil				F		G	E		0d	NA
Ridomil Gold SL	4	x	x	x	x	x	x	1 pt.	48h	3 pt.
mefenoxam								E[r]	0d	3
Rovral 4F	2	x	x	x	x	2 pt	x	x	24h	N/A
iprodione						G			0d	1
Switch 62.5WG	9+12	11.0-14 oz.		x	x	11.0-14 oz.	x	x	12h	56 oz.
cyprodinil + fludioxonil		G	E			F			0d	NA
Thiram (65WP), Thiram Granuflow	M	4.4 lb		x	x	x	4.4 lb	x	24h	NA
thiram		F	F				G		1d	12
Tilt (EC)	3	x	x	x	x	x	4 fl.oz.	x	12h	16 fl. oz.
propiconazole							G		0d	NA
Topguard EQ (SC)	3+11	5-8 fl. oz.		x	x	x	5-8 fl. oz.		12h	32 fl. oz.
azoxystrobin + flutriafol		G	G				E	G	0d	4
Topsin-M WSB[6]	1	0.75-1 lb			x	0.75-1 lb		x	24h	4 lb.
thiophanate		G	E	i		G	X		1d	NA
Torino (SC)	U6	x	x	x	x	x	3.4 fl.oz.	x	4h	7.2 fl. oz.
cyflufenamid							E		3d	2

Anthracnose Fruit Rot

Anthracnose can be severe on both green and ripe (red) strawberry fruit. If anthracnose was a problem last year, or is detected this growing season, consider anintensified fungicide spray program.

The risk for fungicide resistance is high in the fungi that cause anthracnose. To prevent or delay fungicide resistance, follow label recommendations on rotationsand maximum numbers of applications per season.

Abound, Cabrio, Pristine, Luna Sensation, Merivon andone component of Quilt Xcel are all in the same classof chemistry (FRAC 11) and cannot be alternated with each other as a fungicide resistance management strategy. The same holds true for the many FRAC 7 fungicides (Fontelis, Kenja, all Luna products and Miravis Prime), and the premix (FRAC 7+11) fungicidesLuna Sensation, Pristine and Merivon. Captan is the standard for anthracnose control but is not as effective as Abound, Cabrio, or Pristine. However,little to no risk of fungicide resistance is associated with it, making it an ideal tank mix or rotation partner.

Strawberry Early Spring (Pre-bloom) Insect Management Apply when new leaves are expanding and blossom buds are visible.

Product and formulation active Ingredient	IRAC Code[2]	clipper	cyclamen mite	eastern flower thrips	spider mites	spittlebug	tarnished plant bug	REI[3] PHI[4]	Max amt[5] Max app[6]
Acramite 50WS	UN	x	x	x	0.75-1.0 lb.	x	x	12h	NA
bifenazate		x	x	x	E	x	x	1d	1
Actara (25WDG)	4A	x	x	x	x	x	4 oz	12h	12 oz.
thiamethoxam					x		s	3d	NA
Admire Pro (4.6F)	4A	x	x	x	x	1.3 fl. oz.	x	12h	3.9-14 fl. oz.
imidacloprid		x	x	x	x	G	x	7 or 14d	NA
Agri-Mek SC (0.7SC) (RUP)	6	x	3.5 fl. oz.	x	3.5 fl. oz.	x	x	12h	14 fl. oz.
abamectin			G	x	E	x	x	3d	NA
Assail 30SG	4A	x	x	4-6.9 oz.	4-6.9 oz.	1.9-6.9 oz.	1.9-6.9 oz.	12h	13.8 oz.
acetamiprid				G	G	G	G	1d	2
Beleaf 50SG	9C	x	x	x	x	x	2.8 oz.	12h	8.4 oz.
flonicamid		x	x	x	x	x	E	0d	3
Brigade WSB (10WP) (RUP)	3A	6.4-32 oz.	x	x	6.4-32 oz.	6.4-32 oz.	6.4-32 oz.	12h	80 oz.
bifenthrin		E	x	x	F	E	E	0d	NA
Closer SC	4C	x	x	2.75 – 4.5 fl. oz.	x	x	4.5 fl. oz.	12h	17 fl. oz.
sulfoxaflor		x	x	s	x	x	u	1d	4
Danitol 2.4EC (RUP)	3A	16-21.33 fl.oz	16-21.33 fl.oz	x	16-21.33 fl.oz	16-21.33 fl.oz	16-21.33 fl.oz	24h	32 fl. oz.
fenpropathrin		E	u		F	u	u?	3d	NA
Diazinon AG600 WBC (RUP)	1B	x	25.5 fl. oz	x	12.75 fl. oz. /100 g	x	x	3d	50.5 fl. oz.
diazinon		x	G	x	F	x	x	5d	2
Dicofol 4E	UN	x	x	x	2 pt.	x	x	31d	NA
dicofol		x	x	x	F	x	x	2d	1
Dibrom 8E (RUP)	1B	x	x	1 pt.	1 pt.	1 pt.	1 pt.	2d	5 pt.
naled		x	x	u	u	u	u	1d	5
Entrust SC (2SC)	5	x	x	4-6 fl.oz.	x	x	x	4h	18 fl. oz.
spinosad		x	x	G	x	x	x	1d	3

Strawberry Early Spring (Pre-bloom) Insect Management

Product and formulation active Ingredient	IRAC Code[2]	clipper	cyclamen mite	eastern flower thrips	spider mites	spittlebug	tarnished plant bug	REI[3]	PHI[4]	Max amt[5] Max app[6]
Exirel (0.83SE)	28	x	x	13.5-20.5 fl. oz.	x	x	x	12h		61.5 fl. oz
cyantraniliprole				u	x	x	x		1d	NA
Grandevo	UN	x	2-3 lb.	2-3 lb.	2-3 lb.	x	2-3 lb.	4h		NA
Chromobacterium		x	u	u	u	x	u		0d	NA
Kanemite 15SC	20B	x	x	x	21-31 fl.oz.	x	x	12h		62 fl. oz.
acequinocyl		x	x	x	E	x	x		1d	2
Lorsban 4E (RUP)	1B	1 qt.	x	1 qt.	x	x	x	24h		NA
chlorpyrifos		E	x	s	x	x	x		21d	1
Malathion 5EC	1B	x	x	1.5-3.2 pts.	1.5-3.2 pts.	1.5-3.2 pts.	1.5-3.2 pts.	12h		8 pt.
malathion				s	u	u	u		3d	4
Nealta (1.67SC)	25	x	x	x	13.7 fl.oz	x	x	12h		27.4 fl. oz.
cyflumetofen		x	x	x	G	x	x		1d	2
Nexter (75WP)	21A	x	x	x	4.4-10.67 oz.	x	x	12h		21.34 oz.
pyridaben		x	x	x	G	x	x		1d	2
Oberon 2SC	23	x	x	x	12-16 fl. oz.	x	x	12h		48 fl. oz.
spiromesifen		x	x	x	G	x	x		3d	3
Portal XLO (0.4EC)	21	x	2 pt.	x	2 pt.	x	x	12h		4 pt.
fenpyroximate			G	x	E	x	x		1d	2
Radiant SC (1SC)	5	x	x	6-10 fl. oz.	x	x	x	4h		30 fl. oz.
spinetoram		x	x	G	x	x	x		1d	3
Rimon 0.83EC	15	x	x	12 fl.oz.	x	x	9-12 fl.oz.	12h		36 fl. oz.
novaluron		x	x	u	x	x	E		1d	NA
Savey 50DF	10A	x	x	x	6 oz.	x	x	12h		6 oz.
hexythiazox		x	x	x	E	x	x		3d	1

Strawberry Early Spring (Pre-bloom) Insect Management

Product and formulation active Ingredient	IRAC Code[2]	clipper	cyclamen mite	eastern flower thrips	spider mites	spittlebug	tarnished plant bug	REI[3]	PHI[4]	Max amt[5] Max app[6]
Sevin XLR Plus (4F)	1A	1-2 qt.	x	x	x	x	1.5-2 qt.	12h		10 qt.
carbaryl		G	x	x	x	x	G		7d	5
Transform WG	4C	x	x	2.75 oz.	x	x	1.5-2.75 oz.	24h		8.5 oz.
sulfoxaflor		x	x	s	x	x	u		1d	4
Vendex 50WP (RUP)	12B	x	x	x	1.5-2 lb	x	x	2d		4 lb.
fenbutatin-oxide (hexakis)		x	x	x	G	x	x		1d	2
Zeal (72WP)	10B	x	x	x	2-3 oz.	x	x	12h		3 oz.
etoxazole		x	x	x	E	x	x		1d	1

***Strawberry Early Bloom through Bloom- Disease Management*. Apply from 5-10% bloom until flowers have finished blooming.** **Botrytis** may occur after early blooms fade, or are killed by a late frost or freeze. This dead tissue is colonized by *Botrytis*, which continues to grow and invade the crown of the plant, particularly if plants are large, over-fertilized or planted too densely.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	REI[3] PHI[4]	Max amt[5] Max app[6]
Abound (SC)	11	5-8 fl. oz.	x	6.0-15.5 fl. oz.	x	x	x	6.0-15.5 fl. oz	4h	61.5 fl. oz.
azoxystrobin		G[r]		G[r]				G	0d	NA
Aftershock/Evito 480SC	11	2.0-5.7 fl. oz			x	x	x	2.0-5.7 fl. oz	12h	22.8 fl. oz.
fluoxystrobin		G	G	s				G	1d	4
Cabrio EG (20EG)	11	12-14 oz.			x	x	12-14 oz.		12h	70 oz.
pyraclostrobin		E	G	G			G	E	0d	NA
Captan (80WDG)	M	1.87-3.75 lb.					x	x	24h	30 lb.
captan		G	F	G	G	G			0d	NA
CaptEvate (68WG)	M	3.5-5.25 lb.				x	3.5-5.25 lb.	x	48h	21 lb.
captan + fenhexamid		G	F	E	F		G		30d	NA
Elevate 50WDG	17	x	x	1.5 lb.	x	x	x	x	4h	6 lb.
fenhexamid				E[r]					0d	NA
Flint Extra	11	2.5-3.0 fl.oz.				x	x	2.5-3.0 fl.oz.	12h	18 fl. oz.
trifloxystrobin (higher rate)		G	E	G	G			G	0d	6
Fontelis (SC)	7	16-24 fl. oz.			x	x	x	16-24 fl. oz.	12h	72 fl. oz.
penthiopyrad		G	E	E				E	0d	NA
Fracture	M12	x	x	24.4-36.6 fl. oz	x	x	x	0.5-24.4 fl.oz	4 h	NA
Banda de Lupinus alba doce				F				F	1d	5
Intuity (SC)	11	x	x	6 fl.oz.	x	x	x	6 fl.oz.	12h	12 fl. oz.
mandistrobin				E				s-E	0d	2
Kenja 400SC	7	13.5-15.5 fl.oz.			x	x	x	x	12h	54 fl. oz.
isofetamid		i	i	E					0d	NA
Luna Privilege	7	3.2-6.84 fl.oz.			x	x	3.2-6.84 fl.oz.		12 h	13.7 fl. oz
fluopyram		G	G	E			G	G	NL	2
Luna Sensation (SC)	7+11	4-7.6 fl.oz.			x	x	4-7.6 fl.oz.		12h	27.1 fl. oz.
fluopyram + trifloxystrobin		E	E	G			G	E	0d	NA

Strawberry Early Bloom through Bloom- Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	REI[3] PHI[4]	Max amt[5] Max app[6]
Luna Tranquility (SC)	7+9	x		16-27 fl.oz.		x	16-27 fl.oz.		12h	54.7 fl. oz.
fluopyram + pyrimethanil			x	E	G		G	E	1d	NA
Merivon	7+11	4-8 fl.oz.							12h	33 fl. oz.
fluxapyroxad + pyraclostobin		E	E	E	E	G	E	F	0d	3
Mettle 125ME	3	x	x	x	3-5 fl. oz.				12h	20 fl. oz.
tetraconazole					G	G	G	E	0d	4
Miravis Prime	7+12	9.1-13.4 oz.				x	x	9.1-13.4 oz.	12 h	27.2 oz
Pydiflumetofen + fludioxanil		E	E	E	G			G	0 d	4
PhD, Affirm	19	6.2 oz			x	x	x	6.2 oz	4h	NA
Polyoxin D		G	G	E				G	0d	NA
Protocol (L)	1+3	1.3 pt			x	x	1.3 pt		24h	5.3 pt.
thiophanate-methyl + propiconazole		G[r]	G[r]	G[r]			G[r]	G[r]	1d	NA
Pristine	7+11	18.5-23 oz.				x	18.5-23 oz.		12h	115 oz.
pyraclostrobin + boscalid		G	E	E	G		G	E	0d	5
Procure 480SC	3	x	x	x	x	x	x	4-8 fl.oz.	12h	32 fl. oz.
triflumizole								G	1d	NA
Quadris Top (SC)	3+11	12-14 fl.oz.			x	x	12-14 fl.oz.		12h	56 fl. oz.
difenoconazole + azoxystrobin		G	E	G			G	G	0d	4
Quilt Xcel (SE)	11+3	14 fl.oz.			x	x	14 fl.oz.		12h	56 fl. oz.
azoxystrobin + propiconazole		G	G	F			x	E	0d	4
Quintec 2.08F	13	x	x	x	x	x	x	4-6 fl.oz.	24h	24 fl. oz.
quinoxyfen								E	1d	4
Rally 40WSP	3	x	x	x	2.5-5 oz.	x	2.5-5 oz.		24h	30 oz.
myclobutanil					F		G	E	0d	NA
Rovral 4F	2	x	x	2 pt	x	x	2 pt	x	24h	N/A
iprodione				G[r]			G		0d	1

Strawberry Early Bloom through Bloom- Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	REI[3] PHI[4]	Max amt[5] Max app[6]
Scala SC	9	x	x	18 fl.oz.	x	x	x	x	12h	54 fl. oz.
pyrimethanil				E[r]					1d	NA
Switch 62.5WG	9+12	11.0-14 oz.			x	x	11.0-14 oz.	x	12h	56 oz.
cyprodinil + fludioxonil		G	E	E			F		0d	NA
Thiram (65WP), Thiram Granuflow	M	4.4 lb			x	x	x	4.4 lb	24h	NA
thiram		F	F	G				G	1d	12
Tilt (EC)	3	x	x	x	x	x	x	4 fl.oz.	12h	16 fl. oz.
propiconazole								G	0d	NA
Topguard EQ (SC)	3+11	5-8 fl. oz.		x	x	x	x	5-8 fl. oz.	12h	32 fl. oz.
azoxystrobin + flutriafol		G	G					E	0d	4
Topsin-M WSB[6]	1	0.75-1 lb				x	0.75-1 lb		24h	4 lb.
thiophanate		G[r]	E[r]	G[r]	i		G	X	1d	NA
Torino (SC)	U6	x	x	x	x	x	x	3.4 fl.oz.	4h	7.2 fl. oz.
cyflufenamid								E	3d	2

Strawberry Post-bloom to Harvest- Disease Management

Apply every 7-10 days as needed. Botrytis and anthracnose severity increases as fruit ripen. Be sure to check PHIs.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Abound (SC)	11	5-8 fl. oz.	x	6.0-15.5 fl. oz.	x	x	x	6.0-15.5 fl. oz.		4h	61.5 fl. oz.
azoxystrobin		G[r]		G[r]				G	E	0d	NA
Aftershock/Evito 480SC	11	2.0-5.7 fl. oz			x	x	x	2.0-5.7 fl. oz	x	12h	22.8 fl. oz.
fluoxystrobin		G	G	s				G		1d	4
Aliette WDG	33	x	x	x	x	x	x	x	2 pt./100 g	12h	30 lb.
fosetyl-AL									E	1d	NA
Cabrio EG (20EG)	11	12-14 oz.			x	x	12-14 oz.			12h	70 oz.
pyraclostrobin		E	G	G			G	E	E	0d	NA
Captan (80WDG)	M	1.87-3.75 lb.						x	x	24h	30 lb.
captan		G	F	G	G	G	G			0d	NA
CaptEvate (68WG)	M	3.5-5.25 lb.				x	3.5-5.25 lb.	x	x	48h	21 lb.
captan + fenhexamid		G	F	E	F		G			30d	NA
Copper, assorted	M1	x	x	x	see label			x	x	See label	NA
copper					F	F	F			NA	NA
Elevate 50WDG	17	x	x	1.5 lb.	x	x	x	x	x	4h	6 lb.
fenhexamid				E[r]						0d	NA
Flint Extra	11	2.5-3.0 fl.oz.				x	x	2.5-3.0 fl.oz.	x	12h	18 fl. oz.
trifloxystrobin (higher rate)		G	E	G	G			G		0d	6
Fontelis (SC)	7	16-24 fl. oz.			x	x	x	16-24 fl .oz.	x	12h	72 fl. oz.
penthiopyrad		G	E	E				E		0d	NA
Fracture	M12	x	x	24.4-36.6 fl. oz	x	x	x	20.5-24.4 fl.oz.	x	4 h	NA
Banda de Lupinus alba doce				F				F		1d	5
Intuity (SC)	11	x	x	6 fl.oz.	x	x	x	6 fl.oz.	x	12h	12 fl. oz.
mandistrobin				E				s-E		0d	2
Kenja 400SC	7	13.5-15.5 fl.oz.			x	x	x	x	x	12h	54 fl. oz.
isofetamid		i	i	E						0d	NA
Luna Privilege	7	3.2-6.84 fl.oz.			x	x	3.2-6.84 fl.oz.		x	12 h	13.7 fl. oz
fluopyram		G	G	E			G	G		NL	2

Strawberry Post-bloom to Harvest- Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Luna Privilege	7	3.2-6.84 fl.oz.			x	x	3.2-6.84 fl.oz.		x	12 h	13.7 fl. oz
fluopyram		G	G	E			G	G		NL	2
Luna Sensation (SC)	7+11	4-7.6 fl.oz.			x	x	4-7.6 fl.oz.			12h	27.1 fl. oz.
fluopyram + trifloxystrobin		E	E	G			G	E	E	0d	NA
Luna Tranquility (SC)	7+9	x	x	16-27 fl.oz.		x	16-27 fl.oz.		x	12h	54.7 fl. oz.
fluopyram + pyrimethanil				E	G		G	E		1d	NA
Merivon	7+11	4-8 fl.oz.								12h	33 fl. oz.
fluxapyroxad + pyraclostobin		E	E	E	E	G	E	F	x	0d	3
Mettle 125ME	3	x	x	x	3-5 oz				x	12h	20 fl. oz.
tetraconazole					G	G	G	E		0d	4
Miravis Prime	7+12	9.1-13.4 oz.			x	x		9.1-13.4 oz.	x	12 h	27.2 oz
pydiflumetofen + fludioxanil		E	E	E	G			G		0 d	4
PhD, Affirm	19	6.2 oz			x	x	x	6.2 oz	x	4h	NA
Polyoxin D		G	G	E				G		0d	NA
Phosphorous acid:Agrifos, Rampart, etc.	33	x	x	x	x	x	x	x	see label	4h	NA
phosphorous acid									E-F	0d	NA
Protocol (L)	1+3	1.3 pt			x	x	1.3 pt		x	24h	5.3 pt.
thiophanate-methyl + propiconazole		G[r]	G[r]	G[r]			G[r]	G[r]		1d	NA
Pristine	7+11	18.5-23 oz.				x	18.5-23 oz.			12h	115 oz.
pyraclostrobin + boscalid		G	E	E	G		G	E	E	0d	5
Procure 480SC	3	x	x	x	x	x	x	4-8 fl.oz.	x	12h	32 fl. oz.
triflumizole			x					G		1d	NA
Quadris Top (SC)	3+11	12-14 fl.oz.			x	x	12-14 fl.oz.		x	12h	56 fl. oz.
difenoconazole + azoxystrobin		G	E	G			G	G		0d	4
Quilt Xcel (SE)	11+3	14 fl.oz.			x	x	14 fl.oz.		x	12h	56 fl. oz.
azoxystrobin + propiconazole		G	G	F			E			0d	4

Strawberry Post-bloom to Harvest- Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Luna Sensation (SC)	7+11	4-7.6 fl.oz.			x	x	4-7.6 fl.oz.			12h	27.1 fl. oz.
fluopyram + trifloxystrobin		E	E	G			G	E	E	0d	NA
Luna Tranquility (SC)	7+9	x	x	16-27 fl.oz.		x	16-27 fl.oz.		x	12h	54.7 fl. oz.
fluopyram + pyrimethanil				E	G		G	E		1d	NA
Merivon	7+11	4-8 fl.oz.								12h	33 fl. oz.
fluxapyroxad + pyraclostobin		E	E	E	E	G	E	F	x	0d	3
Mettle 125ME	3	x	x	x	3-5 fl. oz.				x	12h	20 fl. oz.
tetraconazole					G	G	G	E		0d	4
Miravis Prime	7+12	9.1-13.4 oz.			x	x	9.1-13.4 oz.		x	12 h	27.2 oz
pydiflumetofen + fludioxanil		E	E	E	G			G		0 d	4
PhD, Affirm	19	6.2 oz			x	x	x	6.2 oz	x	4h	NA
Polyoxin D		G	G	E				G		0d	NA
Phosphorous acid:Agrifos, Rampart, etc.	33	x	x	x	x	x	x	x	see label	4h	NA
phosphorous acid									E-F	0d	NA
Protocol (L)	1+3	1.3 pt			x	x	1.3 pt		x	24h	5.3 pt.
thiophanate-methyl + propiconazole		G[r]	G[r]	G[r]			G[r]	G[r]		1d	NA
Pristine	7+11	18.5-23 oz.				x	18.5-23 oz.			12h	115 oz.
pyraclostrobin + boscalid		G	E	E	G		G	E	E	0d	5
Procure 480SC	3	x	x	x	x	x	x	4-8 fl.oz.	x	12h	32 fl. oz.
triflumizole			x					G		1d	NA
Quadris Top (SC)	3+11	12-14 fl.oz.			x	x	12-14 fl.oz.		x	12h	56 fl. oz.
difenoconazole + azoxystrobin		G	E	G			G	G		0d	4
Quilt Xcel (SE)	11+3	14 fl.oz.			x	x	14 fl.oz.		x	12h	56 fl. oz.
azoxystrobin + propiconazole		G	G	F			E			0d	4
Quintec 2.08E								4.6 fl.oz.		24h	24 fl. oz.

Strawberry Post-bloom to Harvest- Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Quintec 2.08F	13	x	x	x	x	x	x	4-6 fl.oz.	x	24h	24 fl. oz.
quinoxyfen								E		1d	4
Rally 40WSP	3	x	x	x	2.5-5 oz.	x	2.5-5 oz.		x	24h	30 oz.
myclobutanil					F		G	E		0d	NA
Ridomil Gold SL	4	x	x	x	x	x	x	x	1 pt.	48h	3 pt.
mefenoxam									E[r]	0d	3
Rovral 4F	2	x	x	2 pt	x	x	2 pt	x	x	24h	N/A
iprodione				G[r]			G			0d	1
Scala SC	9	x	x	18 fl.oz.	x	x	x	x	x	12h	54 fl. oz.
pyrimethanil			x	E[r]						1d	NA
Switch 62.5WG	9+12	11.0-14 oz.			x	x	11.0-14 oz.	x	x	12h	56 oz.
cyprodinil + fludioxonil		G	E	E			F			0d	NA
Thiram (65WP), Thiram Granuflow	M	4.4 lb			x	x	x	4.4 lb	x	24h	NA
thiram		F	F	G				G		1d	12
Tilt (EC)	3	x	x	x	x	x	x	4 fl.oz.	x	12h	16 fl. oz.
propiconazole								G		0d	NA
Topguard EQ (SC)	3+11	5-8 fl. oz.		x	x	x	x	5-8 fl. oz.		12h	32 fl. oz.
azoxystrobin + flutriafol		G	G					E	G	0d	4
Topsin-M WSB[6]	1	0.75-1 lb				x	0.75-1 lb		x	24h	4 lb.
thiophanate		G	E	G[r]	i		G	X		1d	NA
Torino (SC)	U6	x	x	x	x	x	x	3.4 fl.oz.	x	4h	7.2 fl. oz.
cyflufenamid								E		3d	2

Strawberry Post-bloom through Harvest-Insect Management

Apply every 7-10 days as needed. Be sure to check PHIs.

Product and formulation active Ingredient	IRAC Code[2]	crickets	leafhoppers	leafrollers	sap beetles	slugs	spittlebug	spotted-wing drosophila	tarnished plant bug	REI[3]	PHI[4]	Max amt[5] Max app[6]
Actara (25WDG)	4A	x	4 oz	x	x	x	x	x	4 oz	12h		12 oz.
thiamethoxam			E						s		3d	NA
Admire Pro (4.6F)	4A	x	x	x	x	x	1.3 fl. oz.	x	x	12h		3.9-14 fl. oz.
imidacloprid		x	x	x	x	x	G	x	x		7 or 14d	NA
Agri-Mek SC (0.7SC) (RUP)	6	x	3.5 fl. oz.	x	x	x	x	x	x	12h		14 fl. oz.
abamectin		x	G	x	x	x	x	x	x		3d	NA
Assail 30SG	4A	x	4-6.9 oz.	4-6.9 oz.	4-6.9 oz.		1.9-6.9 oz.	x	1.9-6.9 oz.	12h		13.8 oz.
acetamiprid			G	G	G	x	G		G		1d	2
Beleaf 50SG	9C	x	x	x	x	x	x	x	2.8 oz.	12h		8.4 oz.
flonicamid		x	x	x	x	x	x	x	E		0d	3
Brigade WSB (10WP) (RUP)	3A	x	x	6.4-32 oz.	6.4-32 oz.	x	6.4-32 oz.	x	6.4-32 oz.	12h		80 oz
bifenthrin		x	x	G	E	x	E	x	E		0d	NA
Bt (Bacillus thuriingiensis)	11A	x	x	see label	x	x	x	x	x	4h		UN
Bacillus thuriingiensis		x	x	G	x	x	x	x	x		0d	UN
Closer SC	4C	x	x	x	x	x	x	x	4.5 fl. oz.	12h		17 fl. oz.
sulfoxaflor		x	x	x	x	x	x	x	u		1d	4
Danitol 2.4EC (RUP)	3A		16-21.3 fl.oz.	16-21.3 fl.oz.	x	x	16-21.3 fl.oz.	16-21.3 fl. oz	16-21.3 fl.oz.	24h		32 fl. oz.
fenpropathrin			G	E			u	E	u?		3d	NA
Deadline MP's (4% bait)	UN	x	x	x	x	25 lb	x	x	x	12h		75lb.
metaldehyde		x	x	x	x	G	x	x	x		0d	3
Diazinon AG600 WBC (RUP)	1B	x	x	12.75 fl. oz. /100 g	x	x	x	x	x	3d		50.5 fl. oz.
diazinon			x	G	x	x	x	x	x		5d	2
Dibrom 8E (RUP)	1B	x	x	1 pt.	x	x	1 pt.	x	1 pt.	2d		5 pt.
naled		x	x	u	x	x	u	x	u		1d	5

Strawberry Post-bloom through Harvest-Insect Management

Product and formulation active Ingredient	IRAC Code[2]	crickets	leafhoppers	leafrollers	sap beetles	slugs	spittlebug	spotted-wing drosophila	tarnished plant bug	REI[3]	PHI[4]	Max amt[5] Max app[6]
Entrust SC (2SC)	5	x	x	4-6 fl.oz.	x	x	x	x	x	4h		18 fl. oz.
spinosad				G	x	x	x	x	x		1d	3
Exirel (0.83SE)	28	x	x	x	x	x	x	3.5-20.5 fl. oz	x	12h		61.5 fl. oz
cyantraniliprole		x	x	x	x	x	x	E	x		1d	NA
Grandevo	UN	x	x	1-3 lb.	x	x	x	x	2-3 lb.	4h		NA
Chromobacterium		x	x	G	x	x	x	x	u		0d	NA
Malathion 5EC	1B	x	1.5-3.2 pts.	1.5-3.2 pts.	x	x	1.5-3.2 pts.	x	1.5-3.2 pts.	12h		8 pt.
malathion			G	u	x	x	u	x	u		3d	4
Platinum (2SC)	4A	x	5-12 fl. oz.	x	x	x	x	x	x	12h		12 fl. oz.
thiamethoxam		x	E		x	x	x		x		50d	NA
Radiant SC (1SC)	5	x	x	6-10 fl. oz.	x	x	x	6-10 fl. oz.	x	4h		30 fl. oz.
spinetoram		x	x	E	x	x	x	E	x		1d	3
Rimon 0.83EC	15	x	x	x	12 fl.oz.	x	x	x	9-12 fl.oz.	12h		36 fl. oz.
novaluron		x	x	x	E	x	x	x	E		1d	NA
Sevin XLR Plus (4F)	1A	1-2 qt.	1-2 qt.	1-2 qt.	x	x	x	x	1.5-2 qt.	12h		10 qt.
carbaryl		G	G	F	x	x	x	x	G		7d	5
Sluggo	UN	x	x	x	x	20-44 lb	x	x	x	0d		UN
iron phosphate		x	x	x	x	G	x	x	x		0d	UN
Transform WG	4C	x	x	x	x	x	x	x	1.5-2.75 oz.	24h		8.5 oz.
sulfoxaflor		x	x	x	x	x	x		u		1d	4

Strawberry Harvest Disease Management. Apply during fruit harvest season.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Abound (SC)	11	x	6.0-15.5 fl. oz.	x	x	x	6.0-15.5 fl. oz.		4h	61.5 fl. oz.
azoxystrobin			G[r]				G	E	0d	NA
Aftershock/Evito 480SC	11	2.0-5.7 fl. oz	x	x	x	x	2.0-5.7 fl. oz	x	12h	22.8 fl. oz.
fluoxystrobin		G	s				G		1d	4
Aliette WDG	33	x	x	x	x	x	x	2 .5- 5lb	12h	30 lb.
fosetyl-AL								E	1d	NA
Cabrio EG (20EG)	11	12-14 oz.		x	x	12-14 oz.			12h	70 oz.
pyraclostrobin		G	G			G	E	E	0d	NA
Captan (80WDG)	M		1.87-3.75 lb.				x	x	24h	30 lb.
captan		F	G	G	G	G			0d	NA
Elevate 50WDG	17	x	1.5 lb.	x	x	x	x	x	4h	6 lb.
fenhexamid			E[r]						0d	NA
Flint Extra	11	2.5-3.0 fl.oz.			x	x	2.5-3.0 fl.oz.	x	12h	18 fl. oz.
trifloxystrobin (higher rate)		E	G	G			G		0d	6
Fontelis (SC)	7	16-24 fl. oz.		x	x	x	16-24 fl. oz.	x	12h	72 fl. oz.
penthiopyrad		E	E				E		0d	NA
Fracture	M12	x	24.4-36.6 fl. oz	x	x	x	0.5-24.4 fl.oz	x	4 h	NA
Banda de Lupinus alba doce			F				F		1d	5
Intuity (SC)	11	x	6 fl.oz.	x	x	x	6 fl.oz.	x	12h	12 fl. oz.
mandistrobin			E				s-E		0d	2
Kenja 400SC	7	13.5-15.5 fl.oz.		x	x	x	x	x	12h	54 fl. oz.
isofetamid		i	E						0d	NA
Luna Sensation (SC)	7+11	4-7.6 fl.oz.		x	x	4-7.6 fl.oz.			12h	27.1 fl. oz.
fluopyram + trifloxystrobin		E	G			G	E	E	0d	NA

Strawberry Harvest Disease Management.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Luna Tranquility (SC)	7+9	x	16-27 fl.oz.		x	16-27 fl.oz.		x	12h	54.7 fl. oz.
fluopyram + pyrimethanil			E	G		G	E		1d	NA
Merivon	7+11	4-8 fl.oz.						x	12h	33 fl. oz.
fluxapyroxad + pyraclostobin		E	E	E	G	E	F		0d	3
Mettle 125ME	3	x	x	3-5 fl. oz.				x	12h	20 fl. oz.
tetraconazole				G	G	G	E		0d	4
Miravis Prime	7+12	9.1-13.4 oz.			x	x	9.1-13.4 oz.	x	12 h	27.2 oz
pydiflumetofen + fludioxanil		E	E	G			G		0 d	4
PhD, Affirm	19	6.2 oz		x	x	x	6.2 oz		4h	NA
Polyoxin D		G	E				G	s	0d	NA
Phosphorous acid:Agrifos, Rampart, etc.	33	x	x	x	x	x	x	see label	4h	NA
phosphorous acid								E-F	0d	NA
Protocol (L)	1+3	1.3 pt		x	x	1.3 pt		x	24h	5.3 pt.
thiophanate-methyl + propiconazole		G[r]	G[r]			G[r]	G[r]		1d	NA
Pristine	7+11	18.5-23 oz.			x	18.5-23 oz.			12h	115 oz.
pyraclostrobin + boscalid		E	E	G		G	E	E	0d	5
Procure 480SC	3	x	x	x	x	x	4-8 fl.oz.	x	12h	32 fl. oz.
triflumizole							G		1d	NA
Quadris Top (SC)	3+11	12-14 fl.oz.		x	x	12-14 fl.oz.		x	12h	56 fl. oz.
difenoconazole + azoxystrobin		E	G			G	G		0d	4
Quilt Xcel (SE)	11+3		14 fl.oz.	x	x	14 fl.oz.		x	12h	56 fl. oz.
azoxystrobin + propiconazole		G	F			x	E		0d	4

Strawberry Harvest Disease Management.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose fruit rot	Gray mold (*Botrytis*)	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Quintec 2.08F	13	x	x	x	x	x	4-6 fl.oz.	x	24h	24 fl. oz.
quinoxyfen							E		1d	4
Rally 40WSP	3	x	x	2.5-5 oz.	x	2.5-5 oz.		x	24h	30 oz.
myclobutanil				F		G	E		0d	NA
Ridomil Gold SL	4	x	x	x	x	x	x	1 pt.	48h	3 pt.
mefenoxam								E[r]	0d	3
Rovral 4F	2	x	2 pt	x	x	2 pt	x	x	24h	N/A
iprodione			G[r]			G			0d	1
Scala SC	9	x	18 fl.oz.	x	x	x	x	x	12h	54 fl. oz.
pyrimethanil			E[r]						1d	NA
Switch 62.5WG	9+12	11.0-14 oz.		x	x	11.0-14 oz.	x	x	12h	56 oz.
cyprodinil + fludioxonil		E	E			F			0d	NA
Thiram (65WP), Thiram Granuflow	M	4.4 lb		x	x	x	4.4 lb	x	24h	NA
thiram		F	G				G		1d	12
Tilt (EC)	3	x	x	x	x	x	4 fl.oz.	x	12h	16 fl. oz.
propiconazole							G		0d	NA
Topguard EQ (SC)	3+11	5-8 fl. oz.	x	x	x	x	5-8 fl. oz.		12h	32 fl. oz.
azoxystrobin + flutriafol		G					E	G	0d	4
Topsin-M WSB[6]	1	0.75-1 lb		x	x	0.75-1 lb		x	24h	4 lb.
thiophanate		E	G[r]			G	X		1d	NA
Torino (SC)	U6	x	x	x	x	x	3.4 fl.oz.	x	4h	7.2 fl. oz.
cyflufenamid							E		3d	2

Strawberry Post-harvest and New Plantings Disease Management

Apply every 10-14 days as needed.

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Abound (SC)	11	5-8 fl. oz.	x	x	x	6.0-15.5 fl. oz.		4h	61.5 fl. oz.
azoxystrobin		G[r]				G	E	0d	NA
Aftershock/Evito 480SC	11	2.0-5.7 fl. oz	x	x	x	2.0-5.7 fl. oz		12h	22.8 fl. oz.
fluoxystrobin		G				G	x	1d	4
Aliette WDG	33	x	x	x	x	x	2 .5- 5 lb	12h	30 lb.
fosetyl-AL							E	1d	NA
Cabrio EG (20EG)	11	12-14 oz.	x	x	12-14 oz.			12h	70 oz.
pyraclostrobin		E			G	E	E	0d	NA
Captan (80WDG)	M	1.87-3.75 lb.						24h	30 lb.
captan		G	G	G	G	G	F	0d	NA
CaptEvate (68WG)	M	3.5-5.25 lb.		x	3.5-5.25 lb.	x	x	48h	21 lb.
captan + fenhexamid		G	F	x	G			30d	NA
Copper, assorted	M1	x	see label			x	x	See label	NA
copper			F	F	F			NA	NA
Flint Extra	11	2.5-3.0 fl.oz.		x	x	2.5-3.0 fl.oz.	x	12h	18 fl. oz.
trifloxystrobin (higher rate)		G				G		0d	6
Fontelis (SC)	7	16-24 fl. oz.	x	x	x	16-24 fl. oz.	x	12h	72 fl. oz.
penthiopyrad		G				E		0d	NA
Fracture	M12	x	x	x	x	20.5-24.4 fl.oz.	x	4 h	NA
Banda de Lupinus alba doce						F		1d	5
Intuity (SC)	11	x	x	x	x	6 fl.oz.	x	12h	12 fl. oz.
mandistrobin						s-E		0d	2
Kenja 400SC		3.5-15.5 fl. oz						12h	54 fl. oz

Strawberry Post-harvest and New Plantings Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Kenja 400SC	7	3.5-15.5 fl.oz	x	x	x	x	x	12h	54 fl. oz.
isofetamid		i						0d	NA
Luna Privilege	7	3.2-6.84 fl.oz.	x	x	3.2-6.84 fl.oz.		x	12 h	13.7 fl. oz
fluopyram		G			G	G		NL	2
Luna Sensation (SC)	7+11	4-7.6 fl.oz.	x	x	4-7.6 fl.oz.			12h	27.1 fl. oz.
fluopyram + trifloxystrobin		E			G	E	E	0d	NA
Luna Tranquility (SC)	7+9	x		x	16-27 fl.oz.		x	12h	54.7 fl. oz.
fluopyram + pyrimethanil			G		G	E		1d	NA
Merivon	7+11	4-8 fl.oz.					x	12h	33 fl. oz.
fluxapyroxad + pyraclostobin		E	E	G	E	F		0d	3
Mettle 125ME	3	x	3-5 fl. oz				x	12h	20 fl. oz.
tetraconazole			G	G	G	E		0d	4
Miravis Prime	7+12	9.1-13.4 oz.		x	x	9.1-13.4 oz.	x	12 h	27.2 oz
Pydiflumetofen + fludioxanil		E	G			G		0 d	4
PhD, Affirm	19	6.2 oz	x	x	x	6.2 oz	s	4h	NA
Polyoxin D		G				G	s	0d	NA
Phosphorous acid:Agrifos, Rampart, etc.	33	x	x	x	x	x	see label	4h	NA
phosphorous acid							E-F	0d	NA
Protocol (L)	1+3	1.3 pt	x	x	1.3 pt		x	24h	5.3 pt.
thiophanate-methyl + propiconazole		G[r]			G[r]	G[r]		1d	NA
Pristine	7+11	18.5-23 oz.		x	18.5-23 oz.			12h	115 oz.
pyraclostrobin + boscalid		G	G		G	E	E	0d	5
Procure 480SC	3	x	x	x	x	4-8 fl.oz.	x	12h	32 fl. oz.
triflumizole						G		1d	NA

Strawberry Post-harvest and New Plantings Disease Management

Product and formulation active Ingredient	FRAC Code[2]	Anthracnose crown	Leaf blight (*Phomopsis*)	Leaf Scorch (*Diplocarpon*)	Leaf spot (*Mycosphaerella*)	Powdery mildew	Leather rot / red stele (*Phytophthora*)	REI[3] PHI[4]	Max amt[5] Max app[6]
Quadris Top (SC)	3+11	12-14 fl.oz.	x	x	12-14 fl.oz.		x	12h	56 fl. oz.
difenoconazole + azoxystrobin		G			G	G		0d	4
Quilt Xcel (SE)	11+3	14 fl.oz.	x	x	14 fl.oz.		x	12h	56 fl. oz.
azoxystrobin + propiconazole		G			x	E		0d	4
Quintec 2.08F	13	x	x	x	x	4-6 fl.oz.	x	24h	24 fl. oz.
quinoxyfen						E		1d	4
Rally 40WSP	3	x	2.5-5 oz.	x	2.5-5 oz.		x	24h	30 oz.
myclobutanil			F		G	E		0d	NA
Ridomil Gold SL	4	x	x	x	x	x	1 pt.	48h	3 pt.
mefenoxam							E[r]	0d	3
Rovral 4F	2	x	x	x	2 pt	x	x	24h	N/A
iprodione					G			0d	1
Switch 62.5WG	9+12	11.0-14 oz.	x	x	11.0-14 oz.	x	x	12h	56 oz.
cyprodinil + fludioxonil		G			F			0d	NA
Thiram (65WP), Thiram Granuflow	M	4.4 lb	x	x	x	4.4 lb	x	24h	NA
thiram		F				G		1d	12
Tilt (EC)	3	x	x	x	x	4 fl.oz.	x	12h	16 fl. oz.
propiconazole						G		0d	NA
Topguard EQ (SC)	3+11	5-8 fl. oz.	x	x	x	5-8 fl. oz.		12h	32 fl. oz.
azoxystrobin + flutriafol		G				E	G	0d	4
Topsin-M WSB[6]	1	0.75-1 lb		x	0.75-1 lb		x	24h	4 lb.
thiophanate		G	i		G	X		1d	NA
Torino (SC)	U6	x	x	x	x	3.4 fl.oz.	x	4h	7.2fl. oz.
cyflufenamid						E		3d	2

Strawberry Post-harvest and New Plantings-Insect Management

Apply every 10-14 days as needed.

Product and formulation active Ingredient	IRAC Code[2]	leafhoppers	root weevils	white grubs	REI[3]	PHI[4]	Max amt[5] Max app[6]
Actara (25WDG)	4A	4 oz	4 oz	x	12h		12 oz.
thiamethoxam		E	E			3d	NA
Admire Pro (4.6F)	4A	x	x	7-10.5 fl. oz.	12h		3.9-14 fl. oz.
imidacloprid		x	x	E		7 or 14d	NA
Agri-Mek SC (0.7SC) (RUP)	6	3.5 fl. oz.	x	x	12h		14 fl. oz.
abamectin		G	x	x		3d	NA
Assail 30SG	4A	4-6.9 oz.		x	12h		13.8 oz.
acetamiprid		G	x			1d	2
Brigade WSB (10WP) (RUP)	3A	x	6.4-32 oz.	x	12h		80 oz
bifenthrin		x	G	x		0d	NA
Danitol 2.4EC (RUP)	3A	16-21.33 fl.oz	16-21.33 fl.oz	x	24h		32 fl. oz.
fenpropathrin		G	G			3d	NA
Malathion 5EC	1B	1.5-3.2 pts.	1.5-3.2 pts.	x	12h		8 pt.
malathion		G	u	x		3d	4
Platinum (2SC)	4A	5-12 fl. oz.	5-12 fl. oz.	5-12 fl. oz.	12h		12 fl. oz.
thiamethoxam		E	G	E		50d	NA
Sevin XLR Plus (4F)	1A	1-2 qt.	x	x	12h		10 qt.
carbaryl		G	x	x		7d	5

Strawberry Root Weevil or Black Vine Weevil

The larvae of these pests damage strawberry roots. The weevils lack mobility, so infestations do not spread rapidly. Be sure that nursery stock is not infested before planting. Plow under old plantings soon after harvest, and locate new plantings 300 feet away. Adult weevils can be killed by one or more foliar sprays of Brigade 10WP. Platinum 2SC is labeled for soil application to control root weevil larvae.

Potato Leafhopper

Strawberry foliage can be damaged by adult potatoleafhoppers that feed for a short time, then leave.
Damaged leaves become crinkled and turn yellow tobrown at the margins. Damage is often detected afterleafhoppers have left the field.

Carbaryl (Sevin) is labeled for control of this pest. Courier can be used for leafhopper control but affectsonly immature leafhoppers. Brigade, Danitol, and Diazinon do not list leafhoppers on their labels but should also provide control.

Special Comments on Annual Plasticulture Strawberry Production

Timely planting of healthy plugs is key to establishinga successful planting. All growers should plant disease-free plugs; however, it's also a good idea to make a fungicide application for anthracnose crown rot to the plug trays or to the plants in the field afterplanting, especially since infections may be presentbut symptoms can be delayed or go unnoticed untilthey become more serious.

Planting date influences runner and branch crown formation. Too early is better than too late. If planted too early, energy is directed towardrunner formation; if planted too late, the 4-5 branch crowns that are desired at flowering may not developin time. Research in Ohio and central Kentucky identified early to mid-September as best for plugs
in most years. Growers further north or at higher elevations in the Appalachian Mountains may be ableto plant in late August, while growers further south or west may be able to plant slightly later. On-farm research over a number of years gives growers the best planting window for their particular location.

Weed management in the row is usually accomplishedby applying a pre-emergent herbicide beneath the plastic prior to laying the plastic to control winter annuals. Growers use different strategies to manage weeds between rows. Many have had success by simply planting a cover crop of annual ryegrass or cereal rye to suppress weeds and then killing it with a graminicide in the spring.

Insect management is usually not a significant issue at this time.