

SOYBEAN INSECT CONTROL

Phillip Roberts, Extension Entomologist and Robert M. McPherson, Research Entomologist

PEST	INSECTICIDE	FORMULATION PER ACRE	LBS. ACTIVE PER ACRE	REMARKS AND PRECAUTIONS
Bean Leaf Beetle	bifenthrin (Brigade) 2EC	2.1-6.4 ozs.	0.033-0.1	<p style="text-align: center;">WHEN TO TREAT FOR SOYBEAN INSECTS</p> <p>SOIL INSECTS (Wireworms, white grubs, whitefringed beetle larvae): Treat fields with a history of <u>OR</u> if these insects are found during land preparation at an average of 1 per square yard.</p> <p>SEEDLING PESTS: Treat preventively if damage is expected due to planting situation <u>or</u> treat if stand is being threatened. From seedling emergence until plants are 12 inches tall, treat for:</p> <ol style="list-style-type: none"> 1. <u>lesser cornstalk borer</u> when 10% of seedlings are infested with larvae; 2. <u>cutworms</u> when 10% of stand is lost and larvae are still present; 3. <u>sugarcane beetle</u> (regardless of plant size) when 10% of plants are damaged or dead and beetles are still present; 4. <u>threecornered alfalfa hopper</u> when 10% of plants are infested with nymphs and/or adults. <p>It is very unusual for the above pests (except sugarcane beetle) to damage soybeans larger than 12 inches.</p>
	carbaryl (Sevin) 80S 4F	0.625-1.25 lbs. 1-2 pts.	0.5-1.0 0.5-1.0	
	beta-cyfluthrin (Baythroid XL) 1	1.6-2.8 ozs.	0.0125-0.022	
	gamma-cyhalothrin (Prolex) 1.25	0.77-1.28 ozs.	0.0075-0.0125	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	0.96-1.6 ozs. 1.92-3.2 ozs.	0.015-0.025 0.015-0.025	
	methyl parathion (PennCap-M) 2	2-3 pts.	0.5-0.75	
	zeta-cypermethrin (Mustang Max) .8EC	2.8-4 ozs.	0.0175-0.025	
Beet Armyworm	indoxacarb (Steward) 1.25 EC	5.6-11.3 ozs.	0.055-0.1	<p>FOLIAGE FEEDERS (beet armyworms, grasshoppers, blister beetles, loopers, corn earworm, velvetbean caterpillar, green cloverworm, Mexican bean beetle, bean leaf beetle, Japanese beetle, whitefringed beetle adults): Prior to full bloom, foliage feeders should be controlled when the defoliation level reaches 30%. From full bloom up to mid-pod-fill, treat when the defoliation level reaches 15%. After full-pod-fill, treat when the defoliation level reaches 25%. It usually requires an average of 8 or more green cloverworms, loopers or velvetbean caterpillars (1/2 inch long or longer) per foot of row to cause this much defoliation. It usually requires 4 corn earworms (1/2 in. long or longer) per foot of row to cause this much defoliation.</p> <p>NOTE: The green cloverworm seldom requires control measures in Georgia. It is very common on soybeans throughout the season but does not occur in sufficient numbers to cause economic defoliation losses. It usually requires 15 green cloverworm larvae per foot of row to cause threshold level defoliation. This species infests soybeans early at low levels and serves as a good host for numerous insect parasites and predators, spiders and diseases. These beneficials, in turn, are of great value in suppressing infestations of economically important insect pests later in the season.</p> <p>NOTE: Beet armyworm infestations sometimes occur on seedling beans. When this occurs, controls should not be applied until the defoliation level exceeds 50%.</p>
	methomyl (Lannate) 2.4LV	1.5 pts.	0.45	
	methoxyfenozide (Intrepid) 2F	4-8 ozs.	0.06-0.12	
	spinosad (Tracer) 4SC	1.5-2 ozs.	0.047-0.062	
	thiodicarb (Larvin) 3.2L	10-30 ozs.	0.25-0.75	
Blister Beetles	carbaryl (Sevin) 80S 4F	0.625-1.25 lbs. 1-2 pts.	0.5-1.0 0.5-1.0	<p>POD FEEDERS: <u>Pod feeding caterpillars</u>, such as the corn earworm and fall armyworm should be controlled at any time after bloom when an average of <u>2 per foot of row</u> (1/2 inch long or longer) are found. After full bloom and up to the mid-pod-fill stage, stink bugs should be controlled when an average of <u>1 per 3 feet of row</u> is found. After mid-pod-fill, through maturity, they should be controlled when an average of <u>1 per foot of row</u> is found. If beans are being grown for seed, <u>1 stink bug per 6 feet of row</u> will justify control measures.</p>
	beta-cyfluthrin (Baythroid XL) 1	1.6-2.8 ozs.	0.0125-0.022	
	gamma-cyhalothrin (Prolex) 1.25	1.28-1.54	0.0125-0.015	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	1.6-1.92 ozs. 3.2-3.84 ozs.	0.025-0.03 0.025-0.03	
	zeta-cypermethrin (Mustang Max) .8EC	2.8-4 ozs.	0.0175-0.025	

SOYBEAN INSECT CONTROL (continued)

PEST	INSECTICIDE	FORMULATION PER ACRE	LBS. ACTIVE PER ACRE	REMARKS AND PRECAUTIONS																																				
Corn Earworm	bifenthrin (Brigade) 2EC	2.1-6.4 ozs.	0.033-0.1	<p>IMPORTANT: Reserve materials containing methyl parathion for late season use. This material is very toxic to beneficial insects and spiders which help keep down insect pest infestations. Late season conservation of beneficials is not as critical as it is in the early season since it is unlikely a new pest infestation will have time to develop if a late treatment has to be made for velvetbean caterpillar or stink bugs.</p> <p>MITES: Treat if infestations become general over the field and leaf discoloration is becoming evident.</p> <p>If using a 15-inch diameter sweep net, and taking several 25-sweep samples in each field, the following treatment threshold levels can be used:</p> <p align="center">SWEEP NET</p> <table border="0"> <thead> <tr> <th><u>Pests</u></th> <th><u>Average # Per 25 Sweeps</u></th> </tr> </thead> <tbody> <tr> <td>Corn Earworms</td> <td>5</td> </tr> <tr> <td>Green Cloverworms</td> <td>60</td> </tr> <tr> <td>Soybean Loopers</td> <td>20 sm. or 15 lg.</td> </tr> <tr> <td>Stink Bugs</td> <td></td> </tr> <tr> <td> (bloom to mid-pod)</td> <td>3</td> </tr> <tr> <td> (Mid-pod to maturity)</td> <td>6</td> </tr> <tr> <td>Threecornered Alfalfa Hopper</td> <td>25</td> </tr> <tr> <td>Velvetbean Caterpillar</td> <td>40</td> </tr> </tbody> </table> <p>If using a ground cloth, make 10 random 3-foot examinations for each 20 acres being surveyed.</p> <p align="center">GROUND CLOTH</p> <table border="0"> <thead> <tr> <th><u>Pests</u></th> <th><u>Average # Per 1 Foot of Row</u></th> </tr> </thead> <tbody> <tr> <td>Corn Earworms</td> <td>2</td> </tr> <tr> <td>Green Cloverworms</td> <td>10</td> </tr> <tr> <td>Soybean Loopers</td> <td>8 sm. or 6 lg.</td> </tr> <tr> <td>Stink Bugs</td> <td></td> </tr> <tr> <td> (bloom to mid-pod)</td> <td>0.33</td> </tr> <tr> <td> (Mid-pod to maturity)</td> <td>1</td> </tr> <tr> <td>Threecornered Alfalfa Hopper</td> <td>3</td> </tr> <tr> <td>Velvetbean Caterpillar</td> <td>8</td> </tr> </tbody> </table>	<u>Pests</u>	<u>Average # Per 25 Sweeps</u>	Corn Earworms	5	Green Cloverworms	60	Soybean Loopers	20 sm. or 15 lg.	Stink Bugs		(bloom to mid-pod)	3	(Mid-pod to maturity)	6	Threecornered Alfalfa Hopper	25	Velvetbean Caterpillar	40	<u>Pests</u>	<u>Average # Per 1 Foot of Row</u>	Corn Earworms	2	Green Cloverworms	10	Soybean Loopers	8 sm. or 6 lg.	Stink Bugs		(bloom to mid-pod)	0.33	(Mid-pod to maturity)	1	Threecornered Alfalfa Hopper	3	Velvetbean Caterpillar	8
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	esfenvalerate (Asana XL) .66EC	5.8-9.6 ozs.	0.03-0.05																																					
	indoxacarb (Steward) 1.25 EC	5.6-11.3 ozs.	0.055-0.1																																					
	methomyl (Lannate) 2.4LV	0.75-1.5 pts.	0.225-0.45																																					
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Cutworms	bifenthrin (Brigade) 2EC	2.1-6.4 ozs.	0.033-0.1	<p align="center">GROUND CLOTH</p> <table border="0"> <thead> <tr> <th><u>Pests</u></th> <th><u>Average # Per 1 Foot of Row</u></th> </tr> </thead> <tbody> <tr> <td>Corn Earworms</td> <td>2</td> </tr> <tr> <td>Green Cloverworms</td> <td>10</td> </tr> <tr> <td>Soybean Loopers</td> <td>8 sm. or 6 lg.</td> </tr> <tr> <td>Stink Bugs</td> <td></td> </tr> <tr> <td> (bloom to mid-pod)</td> <td>0.33</td> </tr> <tr> <td> (Mid-pod to maturity)</td> <td>1</td> </tr> <tr> <td>Threecornered Alfalfa Hopper</td> <td>3</td> </tr> <tr> <td>Velvetbean Caterpillar</td> <td>8</td> </tr> </tbody> </table>	<u>Pests</u>	<u>Average # Per 1 Foot of Row</u>	Corn Earworms	2	Green Cloverworms	10	Soybean Loopers	8 sm. or 6 lg.	Stink Bugs		(bloom to mid-pod)	0.33	(Mid-pod to maturity)	1	Threecornered Alfalfa Hopper	3	Velvetbean Caterpillar	8																		
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	chlorpyrifos (Lorsban) 4E	2 pts.	1																																					
	beta-cyfluthrin (Baythroid XL) 1	0.8-1.6 ozs.	0.0065-0.0125																																					
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	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	0.96-1.6 ozs. 1.92-3.2 ozs.	0.015-0.025 0.015-0.025																																					
	zeta-cypermethrin (Mustang Max) .8EC	1.28-4 ozs.	0.008-0.025																																					
Fall Armyworm	indoxacarb (Steward) 1.25 EC	5.6-11.3 ozs.	0.055-0.1																																					
	methomyl (Lannate) 2.4LV	1.5 pts.	0.45																																					

SOYBEAN INSECT CONTROL (continued)

PEST	INSECTICIDE	FORMULATION PER ACRE	LBS. ACTIVE PER ACRE	REMARKS AND PRECAUTIONS
Fall Armyworm (cont.)	spinosad (Tracer) 4SC	1.5-2 ozs.	0.047-0.062	<p align="center">OBSERVE THE FOLLOWING PESTICIDE USE PRECAUTIONS:</p> <p>Apply any of the materials listed in this table with aerial or ground equipment (unless otherwise noted for each material) as label directs. Where a range of rates is given in the table, and if label does not direct otherwise, use the low rate on small plants or small larvae and the high rate on larger plants (especially, if lapped in the middle) or large larvae.</p> <p><u>acephate (Orthene)</u>: Do not apply within 14 days of harvest. Do not graze or cut vines for hay or forage.</p> <p><u>bifenthrin (Brigade)</u>: Do not apply more than 0.3 lbs. Per acre per season, minimum application interval is 30 days. Do not apply within 18 days of harvest.</p> <p><u>beta-cyfluthrin (Baythroid XL)</u>: Pre-harvest interval or feeding of dry vines is 45 days. Do not make more than 4 applications per season.</p> <p><u>carbaryl (Sevin)</u>: Highly toxic to bees.</p> <p><u>chlorpyrifos (Lorsban 4E)</u>: Do not apply more than 6 pints of Lorsban 4E per acre per season. Do not apply last treatment within 28 days of harvest nor apply last two treatments closer than 14 days apart. Do not allow livestock to graze in treated areas nor otherwise feed treated soybean forage to meat or dairy animals within 14 days after application. Do not feed straw from treated soybeans to meat or dairy animals within 28 days after application.</p> <p><u>chlorpyrifos (Lorsban 15G)</u>: Do not make more than one application per season.</p> <p><u>gamma-cyhalothrin (Prolex 1.25)</u>: Do not graze or harvest treated soybean forage, straw, or hay for livestock feed. Do not apply within 30 days of harvest. Do not apply more than 0.03 pounds active ingredient per acre per season.</p> <p><u>lambda-cyhalothrin (Karate Zeon 2.08Z, Silencer)</u>: Do not graze or harvest treated soybean forage, straw, or hay for livestock feed. Do not apply within 30 days of harvest. Do not apply more than 0.06 lb. ai/acre per season.</p> <p><u>dimethoate (Cygon)</u>: Apply as needed but do not apply within 21 days of harvest for beans. Do not apply within 5 days of grazing or harvesting for hay.</p> <p><u>diflubenzuron (Dimilin)</u>: Do not make more than 2 applications per season. Do not apply within 21 days of harvest. Do not cut for hay nor allow milk or meat animals to graze.</p> <p><u>esfenvalerate (Asana XL)</u>: Do not feed or graze livestock on treated plants. Do not exceed 0.2 lb. a.i. per acre per season. Do not apply within 21 days of harvest.</p>
	thiodicarb (Larvin) 3.2L	10-30 ozs.	0.25-0.75	
Grasshoppers	bifenthrin (Brigade) 2EC	2.1-6.4 ozs.	0.033-0.1	
	acephate (Orthene 90S)	0.56 lb.	0.5	
	beta-cyfluthrin (Baythroid XL) 1	2.0-2.8 ozs.	0.0155-0.022	
	gamma-cyhalothrin (Prolex) 1.25	1.28-1.54 ozs.	0.0125-0.015	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	1.6-1.92 ozs. 3.2-3.84 ozs.	0.025-0.03 0.025-0.03	
	methyl parathion (PennCap-M) 2	2-3 pts.	0.5-0.75	
	zeta-cypermethrin (Mustang Max) .8EC	3.2-4 ozs.	.02-.025	
Green Cloverworm	carbaryl (Sevin) 80S 4F	0.625-1.25 lbs. 1-2 pts.	0.5-1.0 0.5-1.0	
	beta-cyfluthrin (Baythroid XL) 1	0.8-1.6 ozs.	0.0065-0.0125	
	gamma-cyhalothrin (Prolex) 1.25	0.77-1.28 ozs.	0.0075-0.0125	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	0.96-1.6 ozs. 1.92-3.2 ozs.	0.015-0.025 0.015-0.025	
	diflubenzuron (Dimilin) 2L	2-4 ozs.	.03-.063	
	esfenvalerate (Asana XL) .66EC	2.9-5.8 ozs.	0.015-0.03	
	indoxacarb (Steward) 1.25 EC	5.6-11.3 ozs.	0.055-0.1	
	methomyl (Lannate) 2.4LV	0.4-0.75 pt.	0.12-0.225	
	methoxyfenozide (Intrepid) 2F	4-8 ozs.	0.06-0.12	
	methyl parathion (4EC) (PennCap M) 2	2 pts. 2-3 pts.	1.0 0.5-0.75	

SOYBEAN INSECT CONTROL (continued)

PEST	INSECTICIDE	FORMULATION PER ACRE	LBS. ACTIVE PER ACRE	REMARKS AND PRECAUTIONS
Green Cloverworm (cont.)	spinosad (Tracer) 4SC	1-2 ozs.	0.031-0.062	<p><u>indoxacarb (Steward)</u>: Will not provide acceptable control of velvetbean caterpillar. Do not feed or graze livestock on treated fields.</p> <p><u>methomyl (Lannate)</u>: Apply Lannate as needed. Do not apply within 10 days of grazing, 12 days of harvest for hay, or 14 days of harvest for beans.</p> <p><u>methoxyfenozide (Intrepid 2F)</u>: Do not apply more than 64 fl. ozs. or make more than 4 applications per season. Do not apply within 7 days of harvest of hay and forage or within 14 days of harvest of seed.</p> <p><u>methyl parathion</u>: Do not apply within 20 days of grazing or hay or bean harvest.</p> <p><u>methyl parathion (PennCap M)</u>: Do not apply more than twice per season. Do not apply within 20 days of grazing or hay or bean harvest.</p> <p><u>spinosad (Tracer)</u>: Do not apply within 28 days of harvest. Do not feed or graze livestock on treated foliage. Do not apply more than 6 ounces per acre per year.</p> <p><u>thiocarb (Larvin)</u>: Do not feed forage, hay, or straw to livestock. Do not apply less than 28 days before harvest.</p> <p><u>zeta-cypermethrin (Mustang Max)</u>: Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not exceed 0.15 lb a.i. per acre per season.</p>
	thiodicarb (Larvin) 3.2L	10-30 ozs.	0.25-0.75	
	zeta-cypermethrin (Mustang Max) .8EC	2.8-4 ozs.	0.0175-0.025	
Japanese Beetle	carbaryl (Sevin) 80S 4F	0.625-1.25 lbs. 1-2 pts.	0.5-1.0 0.5-1.0	<p><u>methoxyfenozide (Intrepid 2F)</u>: Do not apply more than 64 fl. ozs. or make more than 4 applications per season. Do not apply within 7 days of harvest of hay and forage or within 14 days of harvest of seed.</p> <p><u>methyl parathion</u>: Do not apply within 20 days of grazing or hay or bean harvest.</p> <p><u>methyl parathion (PennCap M)</u>: Do not apply more than twice per season. Do not apply within 20 days of grazing or hay or bean harvest.</p> <p><u>spinosad (Tracer)</u>: Do not apply within 28 days of harvest. Do not feed or graze livestock on treated foliage. Do not apply more than 6 ounces per acre per year.</p> <p><u>thiocarb (Larvin)</u>: Do not feed forage, hay, or straw to livestock. Do not apply less than 28 days before harvest.</p> <p><u>zeta-cypermethrin (Mustang Max)</u>: Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not exceed 0.15 lb a.i. per acre per season.</p>
	beta-cyfluthrin (Baythroid XL) 1	1.6-2.8 ozs.	0.0125-0.022	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	1.6-1.92 ozs. 3.2-3.84 ozs.	0.025-0.03 0.025-0.03	
	zeta-cypermethrin (Mustang Max) .8EC	2.8-4 ozs.	0.0175-0.025	
Lesser Cornstalk Borer	chlorpyrifos (Lorsban) 15G 4E	8 ozs. per 1000 feet of row 2 pts.	1.0 1.0	<p><u>zeta-cypermethrin (Mustang Max)</u>: Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not exceed 0.15 lb a.i. per acre per season.</p>
	Apply at planting in a 6 inch band over the row in front of the press wheel <u>OR</u> apply in a narrow band over row when 10% of seedlings are found to be infested and cover lightly with soil. This insect only rarely initiates new damage to plants larger than 12 inches.			
Loopers, Soybean	indoxacarb (Steward) 1.25 EC	5.6-11.3 ozs.	0.055-0.1	<p><u>zeta-cypermethrin (Mustang Max)</u>: Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not exceed 0.15 lb a.i. per acre per season.</p>
	methoxyfenozide (Intrepid) 2F	4-8 ozs.	0.06-0.12	
	spinosad (Tracer) 4SC	1-2 ozs.	0.031-0.062	
	thiodicarb (Larvin) 3.2L	18-30 ozs.	0.45-0.75	
	Note: Soybean loopers are highly resistant to pyrethroid insecticides and should not be used for control.			
Mites	bifenthrin (Brigade) 2EC	5.12-6.4 ozs.	0.08-0.1	<p><u>zeta-cypermethrin (Mustang Max)</u>: Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not exceed 0.15 lb a.i. per acre per season.</p>
	dimethoate (4EC)	1 pt.	0.5	
Stink Bugs	acephate (Orthene 90S)	0.56-1.1 lb.	0.5-1.0	<p><u>zeta-cypermethrin (Mustang Max)</u>: Do not graze or harvest treated soybean forage, straw or hay for livestock feed. Do not exceed 0.15 lb a.i. per acre per season.</p>
	beta-cyfluthrin (Baythroid XL) 1	1.6-2.8 ozs.	0.0125-0.022	

SOYBEAN INSECT CONTROL (continued)

PEST	INSECTICIDE	FORMULATION PER ACRE	LBS. ACTIVE PER ACRE	REMARKS AND PRECAUTIONS
Stink Bugs (cont.)	bifenthrin (Brigade) 2EC	2.1-6.4 ozs.	0.033-0.1	
	gamma-cyhalothrin (Prolex) 1.25	1.28-1.54 ozs.	0.0125-0.015	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	1.6-1.92 ozs. 3.2-3.84 ozs.	0.025-0.03 0.025-0.03	
	methyl parathion (4EC) (Pennacp M) 2	1 pt. 1-3 pts.	0.5 0.25-0.75	
	zeta-cypermethrin (Mustang Max) .8EC	3.2-4 ozs.	0.02-0.025	
Sugarcane Beetles	The treatments for lesser cornstalk borer give helpful control.			
Threecornered Alfalfa Hopper	acephate (Orthene 90S)	0.83-1.1 lb.	0.75-1.0	
	carbaryl (Sevin) 80S 4F	1.25 lbs. 2 pts.	1.0 1.0	
	beta-cyfluthrin (Baythroid XL) 1	1.6-2.8 ozs.	0.0125-0.022	
	gamma-cyhalothrin (Prolex) 1.25	0.77-1.28 ozs.	0.0075-0.0125	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	0.96-1.6 ozs. 1.92-3.2 ozs.	0.015-0.025 0.015-0.025	
	methyl parathion (Pennacp-M) 2FM	2-3 pts.	0.5-0.75	
	zeta-cypermethrin (Mustang Max) .8E	2.8-4 ozs.	0.0175-0.025	
Velvetbean Caterpillar	carbaryl (Sevin) 80S 4F	0.625-1.25 lbs. 1-2 pts.	0.5-1.0 0.5-1.0	
	beta-cyfluthrin (Baythroid XL) 1	1.6-2.8 ozs.	0.0125-0.022	
	gamma-cyhalothrin (Prolex) 1.25	0.77-1.28 ozs.	0.0075-0.0125	
	lambda-cyhalothrin (Karate Zeon) 2.08 (Silencer) 1	0.96-1.6 ozs. 1.92-3.2 ozs.	0.015-0.025 0.015-0.025	
	diflubenzuron (Dimilin) 2L	2-4 ozs.	.03-.063	

SOYBEAN INSECT CONTROL (continued)

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Velvetbean Caterpillar (cont.)	esfenvalerate (Asana XL) .66EC	2.9-5.8 ozs.	0.015-0.03	
	methomyl (Lannate) 2.4LV	0.4-0.75 pt.	0.12-0.225	
	methoxyfenozide (Intrepid) 2F	4-8 ozs.	0.06-0.12	
	methyl parathion (4EC) (PennCap M) 2	1-2 pts. 2-3 pts	0.5-1.0 0.5-0.75	
	spinosad (Tracer) 4SC	1-2 oz.	0.031-0.062	
	thiodicarb (Larvin) 3.2L	10-30 ozs.	0.25-0.75	
	zeta-cypermethrin (Mustang Max) .8EC	2.8-4 ozs.	0.0175-0.025	