Pennsylvania and Program States 12: Apples – Agricultural Chemical Applications, 2011

Part US	Pennsylvania and Progr	Area A		Applications		hemical Application Rate per Application		Rate per Crop Year		Total Applied	
Fungitide	Active Ingredient					·		PA	US		
Basic Open Suffate						(pounds	per acre)		per acre)		
Capisin	Basic Copper Sulfate	7									
Chiorechidrol 1 1 1 1 7 16 1388 2.49 2.88 3.91 40 310 Chyperdini 2 2 8 17 14 12 2.5 18 2.29 2.28 3.91 40 60 60 00 Cyperdini 3 7 17 27 2.5 18 8 0.03 1 0.03 1 0.03 1 0.03 1 1.00 1 1.00 Cyperdini 3 7 2 4 2.5 18 8 0.03 0 0.07 0.02 1 0.03 1 0.03 1 1.00 1 1.00 Cyperdini 3 7 2 4 2.5 18 8 0.03 0 0.07 0.02 1 0.03 0 0.03 1 0.03 0 0.03 1 0.03 0 0.03 1 0.03 0 0.03 1 0.03 0 0.03 1 0.03 0 0.03 1 0.03 0 0.03 1 0.03 0											
Copper Myrouside											
Cyprided 17							2.73		3.299		
Defensionance 37											
Fensennester 2 6 26 13 0.053 0.072 0.18 0.092 0.21 2.100 0.094											
Ferbusznazionazione 10 10 18 2 0.11 0.087 0.201 0.194 400 6.400											
Manocace		10								400	
Merian											
Myobubalani											
Pyrioretarion											
Pyrimethanian											
Steptonyon Sulfate											
Thisphane-Methyl 47 19 33 3 0.305 0.396 1.192 1.173 11,800 62,000 7,000 Zram 6 13 3.3 2.1 2.008 3.229 6.666 6.905 7,000 Zram 6 13 3.3 2.1 2.008 3.229 6.666 6.905 7,000 Zram 7,000 Zram 8 1 3 3.3 2.1 2.008 3.229 6.666 6.905 7,000 Zram 7,000 Zram 8 1 3 3.3 2.1 2.008 3.229 6.666 6.905 7,000 Zram 7,00	Streptomycin Sulfate			2							27,100
Tinfoxystropin											
Zeam' 6 13 3.3 2.1 2.008 3.229 6.666 6.905 7.900 237300 Hearbicides 4			27								
2.4-D		6	13	3.3	2.1	2.008	3.229	6.666	6.905	7,900	237,300
2.4-D. Dimeth Salt		_	اد			2 222	0.51=	2 42	0.5.15	400	4 000
Carfentzacone-Ethyl											
Funioszain 1 2 1 1 1 0.31 0.207 0.311 0.21 7(2) 9900 01/phosate Pot Salt 10 2.5 1.1 1.4 1.147 1.152 1.275 1.275 1.604 2.700 110,600 01/phosate Pot Salt 1 0 2.5 1.1 1.2 1.644 1.686 1.854 1.021 2.00 110,600 01/phosate Pot Salt 1 1 5 1.1 1.2 1.644 1.686 1.854 1.021 2.000 142,700 01/phosate Pot Salt 1 1 5 1.1 1.2 1.644 1.686 1.854 1.021 2.000 142,700 01/phosate Pot Salt 1 1 1 1.544 1.544 1.696 1.854 1.021 2.000 142,700 01/phosate Pot Salt 1 1 1 1.544 1.544 1.693 1.690 1.562 1.000 142,700 01/phosate Pot Salt 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
Glyphosate Iso. Salt	Diuron					1.755		1.774	1.7	2,400	
Glýphosate Pot. Salt Norflurazon 3 3 3 1 1 1 1.844 0.885 1.864 1.021 200 12.700 Oryzalin 3 3 2 1 1 1.3 2.856 2.004 2.975 2.585 1.600 14.600 Oryzalin 3 3 2 1 1 1.3 2.856 2.004 2.975 2.585 1.600 13.200 Oryzalin 13 8 15 1.3 12 0.552 0.881 0.748 1.016 2.800 41.100 Pendimethalin 13 8 1 1 1.2 2.257 2.363 0.748 1.016 2.800 41.100 Remaultron 1 1 3 1 1 1 1.849 1.058 1.058 1.058 1.058 1.004 1.000 Remaultron 1 1 3 1 1 1 1 0.884 1.058 1.058 1.058 1.058 1.000 1.000 Insecticides * Insecticides * Nameultron 1 1 6 15 1.9 1.2 0.01 0.013 0.019 0.016 1.00 6.00 Acetamiprid 3 3 26 2.1 1.7 0.076 0.108 0.183 0.187 1.100 13.000 Acetamiprid 3 3 26 2.1 1.7 0.076 0.108 0.183 0.187 1.100 13.000 Acetamiprid 3 3 4 6 1.3 1.1 0.011 0.013 0.019 0.016 1.00 6.00 Acetamiprid 3 3 4 6 1.3 1.1 0.011 0.013 0.019 0.016 1.00 6.00 Acetamiprid 4 8 45 2.3 1.5 0.047 0.078 0.084 1.213 5.100 79.800 Beta-Cyluthrin 3 3 4 6 1.3 1.1 0.011 0.013 0.019 0.026 1.256 1.250 0.000 Chloraytranilprole 4 8 45 2.3 1.5 0.047 0.074 0.108 0.021 0.026 1.250 0.000 Cyluthrin 1 6 5 1.8 1.4 0.017 0.003 0.03 0.042 0.006 0.000 Diazinon 8 6 1.8 1.2 0.562 1.514 1.428 1.759 1.2500 2.11,100 Diazinon 8 6 6 1.8 1.2 0.562 1.514 1.428 1.759 1.2500 2.11,100 Diazinon 8 6 6 1.8 1.2 0.562 1.514 1.428 1.759 1.2500 2.21,100 Diazinon 8 6 6 1.8 1.2 0.562 1.514 1.428 1.759 1.2500 2.21,100 Diazinon 9 7 7 3 2.6 1.1 1 0.014 0.014 0.015 0.09 0.000 Diazinon 9 8 6 7 7 2 1.5 0.024 0.004 0.007 0.03 0.03 0.004 0.000 Diazinon 9 9 2 3 1.5 0.004 0.007 0.03 0.03 0.004 0.000 Diazinon 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			2								
Norflurazacn 3 3 3 3 1 1 1 1 1.544 1.543 1.603 1.562 1.000 1.48,000 1.000 1.48,000 1.000 1			5								
Paraquel	Norflurazon										
Pendimethalin											
Rimsulfuron											
Terbacil 2	Rimsulfuron	1	4		1.3	0.063	0.053	0.063	0.067	(Z)	700
Namecticides Abamectin											
Abametin		_	_	,	,		0.070	0.101	0.001		0,200
Azinphos-Methy		16	15	1.9	1.2	0.01	0.013	0.019	0.016	100	600
Beta-Cyfluthrin											
Carbary 33 46 1.3 1.3 0.853 1.163 1.132 1.566 7.800 196.300											
Chlorantraniliprole											
Cyfluthin 16 5 1.8 1.4 0.017 0.03 0.03 0.042 100 600 Diazinon 8 6 1.8 1.2 0.542 1.318 0.979 1.553 1.500 2.8800 Dinotefuran 5 (Z) 1 1 0.141 0.141 0.145 0.145 200 200 Endosulfan 2 2 1.1 1 0.141 0.141 0.145 0.145 200 200 Esfenvalerate 5 7 2 1.5 0.024 0.041 0.047 0.063 100 1.200 Fenpryoximate 4 7 1.6 1.1 0.061 0.085 0.1 0.092 100 1,700 Flubendiamide 6 7 2.7 1.5 0.139 0.129 0.382 0.187 400 3,300 Indicacloprid 30 39 2.3 1.5 0.139 0.129 0.382 0.187											
Diazinon 8 6 1.8 1.2 0.542 1.318 0.979 1.553 1.500 24,800 Dinotefuran 5 (Z) 1 1 0.141 0.145 0.145 200 200 Endosulfan 2 2 1.1 1.3 0.607 1.73 0.673 2.221 300 12,400 Esfenvalerate 5 7 2 1.5 0.024 0.041 0.047 0.633 100 12,400 Eenpropathrin 10 3 1.9 1.7 0.173 0.262 0.324 0.438 700 4,200 Fenpropathrin 10 3 1.9 1.7 0.061 0.085 0.1 0.092 100 1,700 Fenpropathrin 4 7 1.6 1.1 0.061 0.085 0.1 0.088 0.01 0.092 100 1,700 Indiacloprid 30 3.0 3.9 2.3 1.5 0.036											
Dintefuran S			6								
Esfenvalerate			(Z)		1						
Fenpropathrin		2 5	2								
Flubendiamide			3								
Imidacloprid											
Indoxacarb											
Methomyl 19 2 3 2.6 0.421 0.514 1.25 1.334 5,100 7,900 Methoxyfenozide 3 1.5 1.9 1.2 0.17 0.232 0.319 0.271 200 11,000 Permethrin 2 1 1.4 1.1 0.142 0.147 0.201 0.164 100 500 Phosmet 13 14 3.9 2.4 1.271 1.652 5.002 3.902 13,300 150,300 Spinetoram 49 29 2.3 1.5 0.28 0.042 .064 0.061 700 4,700 Spinetoram – L 49 29 2.3 1.5 0.28 0.042 .064 0.061 700 4,700 Thiacloprid 19 21 2.5 1.4 0.125 0.179 0.309 0.25 1,200 14,600 Thiacloprid 19 21 2.5 1.4 0.125 0.179 0.309 <td></td>											
Methoxyfenozide 3 15 1.9 1.2 0.17 0.232 0.319 0.271 200 11,000 Permethrin 2 1 1.4 1.1 0.142 0.147 0.201 0.164 100 500 Phosmet 13 14 3.9 2.4 1.271 1.652 5.002 3.902 13,00 150,300 Spinetoram 49 29 2.3 1.5 .028 0.042 .064 0.061 700 4,700 Spinetoram –L 49 29 2.3 1.5 .028 0.042 .064 0.061 700 4,700 Spinetoram –L 49 29 2.3 1.5 .028 0.042 .064 0.061 700 4,700 Thiacloprid 19 21 2.5 1.4 0.125 0.179 0.309 0.25 1,200 14,600 Thiacloprid 19 21 1.5 1.4 0.125 0.179 0.309 </td <td></td>											
Permethrin 2											
Phosmet											
Spinetoram - L 49 29 2.3 1.5 0.28 0.042 0.064 0.061 700 4,700	Phosmet	13		3.9	2.4	1.271	1.652	5.002	3.902	13,300	150,300
Thiacloprid 19											
Other ⁶ Company		19									
Benzyladenine 14 22 1.2 1.2 0.043 0.039 0.05 0.047 100 2,900 Butenoic Acid Hydro. 3 12 1.1 1.2 0.09 0.082 0.097 0.098 100 3,200 Ethephon 15 19 1.9 1.2 0.169 0.497 0.329 0.597 1,100 30,300 Flutriafol 2 9 2.1 1.3 0.086 0.093 0.18 0.12 100 2,900 Gibberellins A4A7 4 21 1.5 1.4 0.016 0.043 0.024 0.059 (Z) 3,500 Mineral Oil 37 55 1.7 2.1 9.961 16.155 16.892 33.186 131,500 4,916,900 NAA, Sodium 32 14 1.4 1.9 0.011 0.01 0.016 0.019 100 700 Prohexadione Calcium 8 25 2.2 1.5 0.09 0.22											
Butenoic Acid Hydro. 3 12 1.1 1.2 0.09 0.082 0.097 0.098 100 3,200 Ethephon 15 19 1.9 1.2 0.169 0.497 0.329 0.597 1,100 30,300 Flutriafol 2 9 2.1 1.3 0.086 0.093 0.18 0.12 100 2,900 Gibberellins A4A7 4 21 1.5 1.4 0.016 0.043 0.024 0.059 (Z) 3,500 Mineral Oil 37 55 1.7 2.1 9.961 16.155 16.892 33.186 131,500 4,916,900 NAA, Sodium 32 14 1.4 1.9 0.011 0.01 0.016 0.019 100 700 Prohexadione Calcium 8 25 2.2 1.5 0.09 0.229 0.195 0.339 300 22,800 Spirodiclofen 8 6 1.6 1.1 0.146 0.24											
Ethephon 15 19 1.9 1.9 1.2 0.169 0.497 0.329 0.597 1,100 30,300 Flutriafol 2 9 2.1 1.3 0.086 0.093 0.18 0.12 100 2,900 Gibberellins A4A7 4 21 1.5 1.4 0.016 0.043 0.024 0.059 (Z) 3,500 Mineral Oil 37 55 1.7 2.1 9.961 16.155 16.892 33.186 131,500 4,916,900 NAA, Sodium 32 14 1.4 1.9 0.011 0.01 0.016 0.019 100 700 Prohexadione Calcium 8 25 2.2 1.5 0.09 0.229 0.195 0.339 300 22,800 Spirodiclofen 8 6 1.6 1.1 0.146 0.244 0.227 0.275 400 4,700											
Flutriafol 2 9 2.1 1.3 0.086 0.093 0.18 0.12 100 2,900 Gibberellins A4A7 4 21 1.5 1.4 0.016 0.043 0.024 0.059 (Z) 3,500 Mineral Oil 37 55 1.7 2.1 9.961 16.155 16.892 33.186 131,500 4,916,900 NAA, Sodium 32 14 1.4 1.9 0.011 0.01 0.016 0.019 100 700 Prohexadione Calcium 8 25 2.2 1.5 0.09 0.229 0.195 0.339 300 22,800 Spirodiclofen 8 6 1.6 1.1 0.146 0.244 0.227 0.275 400 4,700											
Mineral Oil 37 55 1.7 2.1 9.961 16.155 16.892 33.186 131,500 4,916,900 NAA, Sodium 32 14 1.4 1.9 0.011 0.01 0.016 0.019 100 700 Prohexadione Calcium 8 25 2.2 1.5 0.09 0.229 0.195 0.339 300 22,800 Spirodiclofen 8 6 1.6 1.1 0.146 0.244 0.227 0.275 400 4,700	Flutriafol	2	9	2.1	1.3	0.086	0.093	0.18	0.12		2,900
NAA, Sodium 32 14 1.4 1.9 0.011 0.01 0.016 0.019 100 700 Prohexadione Calcium 8 25 2.2 1.5 0.09 0.229 0.195 0.339 300 22,800 Spirodiclofen 8 6 1.6 1.1 0.146 0.244 0.227 0.275 400 4,700											
Prohexadione Calcium 8 25 2.2 1.5 0.09 0.229 0.195 0.339 300 22,800 Spirodiclofen 8 6 1.6 1.1 0.146 0.244 0.227 0.275 400 4,700											
	Prohexadione Calcium	8	25	2.2		0.09	0.229	0.195	0.339	300	22,800
			6					0.227			

Spirodicioleri 18 | 6 | 1.6 | 1.1 | 0.146 | 0.244 | 0.227 | 0.275 | 400 | 4,700 |

The 7 Program States consist of: California, Michigan, New York, North Carolina, Oregon, Pennsylvania, and Washington. (2) is displayed for estimates less than half of the unit shown.

The following fungicides were withheld from the table to avoid disclosing data for individual farms: Calcium Polysulfide, Copper Chloride Hyd., Dodine, Mefenoxam, Oxytetracycline Calc, PCNB, Phosphorous Acid, Thiram, Triadimefon, and Triflumizole. The following herbicides were withheld from the table to avoid disclosing data for individual farms: Atrazine, Clopyralid Mono Salt, Dicamba Dimet. Salt, Dichlobenil, Fluroxypyr 1-MHE, Glufosinate Ammonium, Glyphosate Amm. Salt, Oxyfluorfen, and Penoxsulam. The following insecticides were withheld from the table to avoid disclosing data for individual farms: BT Kurstaki ABTS-351, Buprofezin, Clofentezine, Clothianidin, Dicofol, Emamectin Benzoate, Etoxazole, Flonicamid, Gamma-Cyhalothrin, Hexythiazox, Malathion, Methidathion, Novaluron, Oxamyl, Petroleum Distillate, Pyridaben, Pyriproxyfen, Spinosad, Spirotetramat, Xylene, and Zeta-Cypermethrin. The following other pesticides were withheld from the table to avoid disclosing data for individual farms: Cytokinins, E-8-Dodecenyl Acetat, Hydrogen Peroxide, NAA Ammonium Salt, Tetradecen-1-OL (Z), Tetradecen-1-YL (E), Z-8-Dodecanol, and Z-8-Dodecen Acetate.