Appendix M. AgDrift Input Parameters

For phosmet, a Tier III Aerial assessment was conducted to determine the fraction of spray drift and the application efficiency. Labels for phosmet stipulate the following measures for aerial applications:

- If application includes a no-spray buffer zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.
- Minimum wind speed of 10 mph
- A coarse spray droplet distribution (a volume mean diameter of 385 microns or greater)
- A boom width 75% of the wing span
- For crops other than potatoes, do not apply within 50 feet of permanent water bodies. For potatoes, do not apply within 150 feet of permanent water bodies.
- A minimum of 5 gallons per acre of water

For the AgDrift runs simulated, the following additional inputs were used

- Aircraft = Basic Air Tractor AT-401
- Flight Lines = 20
- Swath Width Definition = Fixed Width
- Swath Width = 60 ft
- Swath Displacement = Fraction of Swath Width (0.3702)
- Specific Gravity (nonvolatile) = 0.28 (15 lb/ft^3 x 1 ft^3/6.43 gal (dry) x 1/8.34 lb/gal) (15 lbs/ft^3 from MSDS for Imidan 70W MSDS)
- Wind Direction = -90 degrees
- Temperature = 86˚F
- Relative Humidity = 50%
- Advanced Settings were left alone
- Surface Roughness = 0.66 ft (0.2 m) for crops and 3.28 ft (1 m) for orchards

The flowing table depicts the nonvolatile rate and active rate parameters used in the AgDrift runs for the different uses.

Scenario	Nonvolatile Rate (lbs/A)	Active Rate (lbs/A)	Scenario	Nonvolatile Rate (lbs/A)	Active Rate (lbs/A)
CA alfalfa	1.5	0.75	CA fruit (nectarine)	4.25	3.0
CA almond	8.5	5.95	CA wine grapes	2.0	1.0
CA citrus	3.0	2.1	CA potato	2.0	1.0
CA forestry	2.0	1.0	CA row crop	2.0	1.0
CA fruit (apples)	5.75	4.0			

The following pages depict the input files used in the AgDrift modeling runs.

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Alfalfa
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet alfalfa.agd 2.01 02-02-2010 10:00:06

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	12.5	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories #	Diam (um)	Frac	Diam (um)	Frac
1	35.01	0.0002	10.77	0.0010
2	40.57	0.0002	16.73	0.0003
3	47.03	0.0008	19.39	0.0007
4	54.50	0.0023	22.49	0.0003
5	63.16	0.0038	26.05	0.0007
6	73.23	0.0047	30.21	0.0010
7	84.85	0.0042	35.01	0.0010
8	98.12	0.0058	40.57	0.0020
9	113.71	0.0112	47.03	0.0033
10	131.73	0.0180	54.50	0.0053
11	152.79	0.0248	63.16	0.0067
12	177.84	0.0272	73.23	0.0090
13	205.84	0.0328	84.85	0.0133
14	238.45	0.0545	98.12	0.0223
15	276.48	0.0737	113.71	0.0330
16	320.60	0.0970	131.73	0.0393
17	372.18	0.1133	152.79	0.0480
18	430.74	0.1287	177.84	0.0647
19	498.91	0.1383	205.84	0.0830
20	578.54	0.1145	238.45	0.1147
21	670.72	0.0553	276.48	0.1283
22	777.39	0.0223	320.60	0.1380
23	900.61	0.0190	372.18	0.1127
24	1044.42	0.0172	430.74	0.0640
25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	1.5	0.501
Active Rate (lb/ac)	0.75	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	0.66	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Nut Tree
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet tree nut.agd 2.01 03-10-2010 10:37:11

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	50	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	8.5	0.501
Active Rate (lb/ac)	5.95	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	3.28	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Citrus
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet citrus.agd 2.01 03-10-2010 10:26:09

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	22	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	3	0.501
Active Rate (lb/ac)	2.1	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	3.28	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Xmas Tree
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet xmas.agd 2.01 02-02-2010 10:33:47

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	18	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	2	0.501
Active Rate (lb/ac)	1	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	3.28	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Apples
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet apple.agd 2.01 03-10-2010 10:28:30

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	20	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	5.75	0.501
Active Rate (lb/ac)	4	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	3.28	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Nectarines
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet apricot.agd 2.01 03-10-2010 10:35:13

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	30	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	4.25	0.501
Active Rate (lb/ac)	3	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	3.28	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Pears
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet pear.agd 2.01 03-10-2010 10:41:02

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	25	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	5.75	0.501
Active Rate (lb/ac)	4	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	3.28	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Blueberries
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet blueberry.agd 2.01 02-02-2010 10:05:36

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	22	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	2	0.501
Active Rate (lb/ac)	1	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	0.66	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91

AgDRIFT® Input Data Summary

--General--
Tier: III
Title: Phosmet Potatoes
Notes:

Calculations Done: Yes
Run ID: AgDRIFT® phosmet potatoes.agd 2.01 02-02-2010 10:29:49

Default values appear when they differ from the Current values.

--Aircraft--	----------Current----------	----------Default----------
Name	Air Tractor AT-401	
Type	Basic	
Boom Height (ft)	10	10
Flight Lines	20	
Wing Type	Fixed-Wing	
Semispan (ft)	24.5	
Typical Speed (mph)	119.99	
Biplane Separation (ft)	0	
Weight (lbs)	6000	6000
Planform Area (ft²)	294	
Propeller RPM	2000	
Propeller Radius (ft)	4.5	
Engine Vert Distance (ft)	-1.2	
Engine Fwd Distance (ft)	11.9	

-Drop Size Distribution 1-	----------Current----------		----------Default----------	
Name	ASAE Coarse		ASAE Fine to Medium	
Type	Basic			
Drop Categories	#	Diam (um)	Frac	Diam (um)	Frac
	1	35.01	0.0002	10.77	0.0010
	2	40.57	0.0002	16.73	0.0003
	3	47.03	0.0008	19.39	0.0007
	4	54.50	0.0023	22.49	0.0003
	5	63.16	0.0038	26.05	0.0007
	6	73.23	0.0047	30.21	0.0010
	7	84.85	0.0042	35.01	0.0010
	8	98.12	0.0058	40.57	0.0020
	9	113.71	0.0112	47.03	0.0033
	10	131.73	0.0180	54.50	0.0053
	11	152.79	0.0248	63.16	0.0067
	12	177.84	0.0272	73.23	0.0090
	13	205.84	0.0328	84.85	0.0133
	14	238.45	0.0545	98.12	0.0223
	15	276.48	0.0737	113.71	0.0330
	16	320.60	0.0970	131.73	0.0393
	17	372.18	0.1133	152.79	0.0480
	18	430.74	0.1287	177.84	0.0647
	19	498.91	0.1383	205.84	0.0830
	20	578.54	0.1145	238.45	0.1147
	21	670.72	0.0553	276.48	0.1283
	22	777.39	0.0223	320.60	0.1380
	23	900.61	0.0190	372.18	0.1127
	24	1044.42	0.0172	430.74	0.0640
	25	1210.66	0.0153	498.91	0.0440

	26	1403.04	0.0148		578.54	0.0317		

--Nozzle Distribution--	----------Current----------				----------Default----------			
Name	Nozzles for Air Tractor A...							
Type	Basic							
Horiz Distance Limit (%)	0							
Boom Length (%)	75							76.3
Nozzle DSD & Locations	#	DSD	H(ft)	V(ft)	F(ft)	DSD	H(ft)	V(ft)	F(ft)
	1	1	-18.38	0	0	1	-18.7	0	0
	2	1	-17.43	0	0	1	-17.79	0	0
	3	1	-16.49	0	0	1	-16.87	0	0
	4	1	-15.55	0	0	1	-15.96	0	0
	5	1	-14.61	0	0	1	-15.05	0	0
	6	1	-13.66	0	0	1	-14.14	0	0
	7	1	-12.72	0	0	1	-13.22	0	0
	8	1	-11.78	0	0	1	-12.31	0	0
	9	1	-10.84	0	0	1	-11.4	0	0
	10	1	-9.89	0	0	1	-10.49	0	0
	11	1	-8.95	0	0	1	-9.58	0	0
	12	1	-8.01	0	0	1	-8.66	0	0
	13	1	-7.07	0	0	1	-7.75	0	0
	14	1	-6.13	0	0	1	-6.84	0	0
	15	1	-5.18	0	0	1	-5.93	0	0
	16	1	-4.24	0	0	1	-5.02	0	0
	17	1	-3.3	0	0	1	-4.1	0	0
	18	1	-2.36	0	0	1	-3.19	0	0
	19	1	-1.41	0	0	1	-2.28	0	0
	20	1	-0.4712	0	0	1	-1.37	0	0
	21	1	0.4712	0	0	1	-0.456	0	0
	22	1	1.41	0	0	1	0.456	0	0
	23	1	2.36	0	0	1	1.37	0	0
	24	1	3.3	0	0	1	2.28	0	0
	25	1	4.24	0	0	1	3.19	0	0
	26	1	5.18	0	0	1	4.1	0	0
	27	1	6.13	0	0	1	5.02	0	0
	28	1	7.07	0	0	1	5.93	0	0
	29	1	8.01	0	0	1	6.84	0	0
	30	1	8.95	0	0	1	7.75	0	0
	31	1	9.89	0	0	1	8.66	0	0
	32	1	10.84	0	0	1	9.58	0	0
	33	1	11.78	0	0	1	10.49	0	0
	34	1	12.72	0	0	1	11.4	0	0
	35	1	13.66	0	0	1	12.31	0	0
	36	1	14.61	0	0	1	13.22	0	0
	37	1	15.55	0	0	1	14.14	0	0
	38	1	16.49	0	0	1	15.05	0	0
	39	1	17.43	0	0	1	15.96	0	0
	40	1	18.38	0	0	1	16.87	0	0

--Swath--	----------Current----------	----------Default----------
Swath Width	60 ft	
Swath Displacement	0.3702 x Swath Width	
Half Boom	No	

--Spray Material--	----------Current----------	----------Default----------
Name	Water	
Type	User-defined	Basic

Nonvolatile Rate (lb/ac)	2	0.501
Active Rate (lb/ac)	1	0.2505
Spray Volume Rate (gal/ac)	5	2
Specific Gravity	1	
Evaporation Rate (μm²/deg C/sec)	84.76	
--Meteorology--	----------Current----------	----------Default----------
Wind Speed (mph)	10	
Wind Direction (deg)	-90	
Temperature (deg F)	86	
Relative Humidity (%)	50	
--Transport--	----------Current----------	----------Default----------
Flux Plane (ft)	0	
--Terrain--	----------Current----------	----------Default----------
Surface Roughness (ft)	0.0328	0.0246
--Advanced--	----------Current----------	----------Default----------
Wind Speed Height (ft)	6.56	6.56
Max Compute Time (sec)	600	
Max Downwind Dist (ft)	2608.24	2608.24
Vortex Decay Rate (mph)	1.25	1.25
Aircraft Drag Coeff	0.1	
Propeller Efficiency	0.8	
Ambient Pressure (in hg)	29.91	29.91