

APPENDIX A. Example Output from AgDRIFT

Terrestrial Assessment:

Tier I Aerial

The screenshot shows the AgDRIFT software interface with the 'Terrestrial Assessment' dialog box open. The dialog box is titled 'Terrestrial Assessment' and has a close button (X) in the top right corner. It contains three main sections: 'Terrestrial Field Definition', 'Tier I Settings', and 'Calculations'.

Terrestrial Field Definition:

- ☒ Point Deposition
- ☐ User-defined Area Average
Downwind Width of Area Average: 208.7 ft

Tier I Settings:

Active Rate: 2.1 lb/ac

Calculations:

Distance To Point or Area Average From Edge of Field: out of range! ft

Initial Average Deposition:

	0.0007	Fraction of Applied
	1.65	g/ha
	1.65E-05	mg/cm ²

At the bottom of the dialog box, there are five buttons: Plot, Export, Print, Calc, and Close. The 'Close' button is highlighted with a dashed border.

In the background, the main AgDRIFT window is visible, showing a menu bar (File, Edit, Mode, Tier, View, Toolbox, Help) and a sidebar with 'Drop Size Distribution' options: ASAE Very Fine, ASAE Fine to Medium (selected), ASAE Medium, and ASAE Coarse. The main area of the background window shows 'Tier I Aerial Agricultural'.

Tier II Aerial

AgDRIFT - [*]

File Edit Mode Tier View Run Toolbox Help

Title: Untitled

Aircraft
Name: Air Tractor AT-401 (Slow Fixed-wing)
Boom Length: 76.3 %
Boom Height: 10 ft
Flight Lines: 20

Swath
Swath Width Definition: Fixed Width
Swath Width: 60 ft

Swath Displacement Definition:
Fraction of Swath Width
Fraction: 0.3702

Drop Size Distribution
DSD Type: Basic (ASAE Fine to Medium)

Spray Material
Nonvol. Rate: 4.03 lb/ac
Active Rate: 2.1 lb/ac
Spray Volume Rate: 3 gal/ac
Carrier Type: Water

Meteorology
Wind Speed: 10 mph
Temperature: 86 deg F
Rel. Humidity: 50 %

Terrestrial Assessment

Terrestrial Field Definition
☒ Point Deposition
☐ User-defined Area Average
Downwind Width of Area Average: 208.7 ft

Tier I Settings
Active Rate: lb/ac

Calculations
Distance To Point or Area Average From Edge of Field: out of range! ft
Initial Average Deposition: 0.0007 Fraction of Applied
1.65 g/ha 0.0015 lb/ac
1.65E-05 mg/cm²

Plot Export Print Calc Close

AgDRIFT Tier II Aerial Agricultural

Tier I Ground

AgDRIFT I - [x]

File Edit Mode Tier View Toolbox Help

Title

Boom Height

☐ Low Boom

☒ High Boom

Drop Size Distribution

☒ ASAE Very Fine to Fine

☐ ASAE Fine to Medium/Coarse

Data Percentile

☐ 50th Percentile

☒ 90th Percentile

Terrestrial Assessment

Terrestrial Field Definition

☒ Point Deposition

☐ User-defined Area Average

Downwind Width of Area Average: 208.7 ft

Tier I Settings

Active Rate: 2.1 lb/ac

Calculations

Distance To Point or Area Average From Edge of Field: out of range! ft

Initial Average Deposition:

0.0007 Fraction of Applied

1.65 g/ha 0.0015 lb/ac

1.65E-05 mg/cm²

Plot Export Print Calc Close

AgDRIFT[®] Tier I Ground

Aquatic Assessment:

Tier I Aerial

AgDRIFT - [*]

File Edit Mode Tier

Title

Drop Size Distribution

☐ ASAE Very Fine

☒ ASAE Fine to Medium

☐ ASAE Medium to Coarse

☐ ASAE Coarse to Very Coarse

Aquatic Assessment

Aquatic Body Definition

☒ EPA-Defined Pond

☐ EPA-Defined Wetland

☐ User-defined Water Body

Downwind Water Body Width: 208.7 ft

Average Depth: 6.56 ft

Tier I Settings

Active Rate: 2.1 lb/ac

Calculations

Distance To Water Body From Edge of Field: out of range! ft

Initial Average Deposition: 0.001 Fraction of Applied

2.28 g/ha 0.002 lb/ac

Initial Average Concentration: 114 ng/L (ppt)

Plot Export Print Calc Close

Tier I Aerial

icultural

Tier II Aerial

AgDRIFT - [*]

File Edit Mode Tier View Run Toolbox Help

Title: Untitled

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Spray Volume Rate: 3 gal/ac
Carrier Type: Water

Meteorology
Wind Speed: 10 mph
Temperature: 86 deg F
Rel. Humidity: 50 %

Swath
Swath Width Definition: Fixed Width
Swath Width: 60 ft
Swath Displacement Definition: Fraction of Swath Width
Fraction: 0.3702

Aquatic Assessment

Aquatic Body Definition
☒ EPA-Defined Pond
☐ EPA-Defined Wetland
☐ User-defined Water Body
Downwind Water Body Width: 208.7 ft
Average Depth: 6.56 ft

Tier I Settings
Active Rate: lb/ac

Calculations
Distance To Water Body From Edge of Field: out of range ft
Initial Average Deposition: 0.001 Fraction of Applied
2.28 g/ha 0.002 lb/ac
Initial Average Concentration: 114 ng/L (ppt)

Plot Export Print Calc Close

AgDRIFT® Tier II Aerial Agricultural

Tier I Ground

AgDRIFT - [*]

File Edit Mode Tier View Toolbox

Title

Boom Height

☐ Low Boom

☒ High Boom

Drop Size Distribution

☒ ASAE Very Fine to Fine

☐ ASAE Fine to Medium/Coarse

Data Percentile

☐ 50th Percentile

☒ 90th Percentile

Aquatic Assessment

Aquatic Body Definition

☒ EPA-Defined Pond

☐ EPA-Defined Wetland

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Plot Export Print Calc Close