# Appendix E: Summary of Input Parameters Used in AgDISP for Estimation of Buffers.

### Parameters used in AgDISP modeling

## I. Calculation of the Initial average deposition (IAD)

(1) Calculation of the fraction of applied (F of A) as shown in the Table below

| *Crop* | *LOC* | *Dose based RQ* | *F of A* |
|---|---|---|---|
| Shallot | 1 | 80.7 | 0.01239157 |
| Almonds | 1 | 234.57 | 0.00426312 |
| Turf | 1 | 637.73 | 0.00156806 |

(2) Using the F of A the following is calculated

| *Crop* | *Application Rate lb a.i/A* | *F of A* | *IAD* | |
|---|---|---|---|---|
| | | | *lb a.i/Acre* | *g/Hectare* |
| Shallot | 2.4 | 0.012392 | **0.02974** | 33.3382900 |
| Almonds | 6.4 | 0.004263 | **0.02728** | 30.5853263 |
| Turf | 19.1 | 0.001568 | **0.02995** | 33.5739263 |

## II. Parameters used in AgDISP modeling:

**Application Method:** Aerial
**Release Height:** 15 feet
**Wind Speed:** 15 mph
**ASAE:** Very Fine to Fine
**Non-volatile Fraction:** Three values were entered in three separate runs; the values were 0.04, 0.11, and 0.32 (Calculated from label information, not all labels were considered)
**Active Fraction:** Three values were entered in three separate runs; the values were 0.015, 0.041, and 0.118 (Calculated from the non-vol. fraction values above and an active ingredient fraction of 0.37 (obtained from the same labels used in the calculations for the non-volatile fraction, above)
**Specific gravity:** 1.084 kg/L (4 lbs/one gallon as per most labels)
**Toolbox selected:** Deposition Assessment
**Deposition Area Definition:** Terrestrial Point
**Initial Average Deposition:** (lbm/ac=lb a.i/Acre) from I.2 above which varies with the use pattern
**- Result obtained:** Out of range, therefore the Gaussian Far-Field Extension was used to calculate the buffers.