

US EPA ARCHIVE DOCUMENT

## Appendix B. Example input file for TIMv3.0 (with parameter descriptions in /\* \*/)

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pesticide      /*pesticide name*/
lettuce        /*crop name*/
sparrow        /*species name*/
1              /*number of generic bird, see Table 2.2 of technical guidance for details, 0 = custom
species, 1-30 = generic species*/
1              /*Passerine = 1, non-passerine = 0*/
0              /*nest type, 0 =altricial, 1 = precocial*/
10000          /*Number of birds (trials) simulated */
25             /*Flock size */
12345678      /* Random number seed. Enter 0 if user does not select a seed.*/

1              /*Turns QC reports on (1) or off (0) */
1              /*Turns TIM executable call for user input on (1) or off (0) */
1              /*Turns MCnest outputs on (1) or off (0) */

/*user defined switches for turning exposure pathways on (enter 1) or off (enter 0)*/
/*note that these may be overridden based on application method where some exposures do not
apply.*/
1              /*Food switch */
1              /*Drinking water puddle switch */
1              /*Drinking water dew switch */
1              /*Inhalation vapor switch */
1              /*Inhalation spray switch */
1              /*Dermal contact switch */
1              /*Dermal spray switch */
0              /*Spray drift switch*/

30             /*Number of days simulated*/
3              /*Number of applications*/
0.5            /*Rate of application #1 (lb a.i./A) */
7              /*Interval between app1 and 2 (days) */
0.5            /*Rate of application #2 (lb a.i./A) */
7              /*Interval between app2 and 3 (days) */
0.5            /*Rate of application #3 (lb a.i./A) */
7              /*Interval between app3 and 4 (days) */
0.5            /*Rate of application #4 (lb a.i./A) */
7              /*Interval between app 4 and 5 (days) */
0.5            /*Rate of application #5 (lb a.i./A) */
8              /*Time of first application (hour) */
2              /*Application method; 1 = Air, 2 = Ground Broadcast, 3 = Ground Banded, 4 = Ground in
furrow, 5 = Air blast */
1              /*droplet spectrum for air and ground, 1= very fine to fine, 2 = fine to medium, 3 =
medium to coarse (air only) 4 = coarse to very coarse (air only)*/
1.5           /*Spray height (m)*/
0.5           /*Spray duration (min)*/
0.5           /*Crop height (m)*/

```

30000 /\*Plant(crop) mass (kg/ha)\*/  
 1 /\*crop type, 1= field, 2= orchard, 3= vineyard\*/  
 1 /\*Fraction of edge habitat receiving spray drift\*/  
 0 /\*Length of in field buffer (feet) \*/

0.02 /\*fraction of organic carbon in soil\*/  
 1.6 /\*soil bulk density (kg/L)\*/

/\*feeding times are on a 24 h clock\*/  
 4 6 /\*Morning feeding start times: min and max \*/  
 8 11 /\*Morning feeding end times: min and max\*/  
 12 15 /\*afternoon feeding start times: min and max \*/  
 17 21 /\*afternoon feeding end times: min and max \*/  
 0.4 0.7 /\*Proportion of daily feeding taking place in morning: min and max \*/  
 1 /\*Gorging factor, enter 1 if normal feeding is simulated\*/  
 /\*Parameters for custom species, enter 0 if generic species selected\*/  
 64 7 45.8 82.2 /\*Body weight (g): mean, SD, min, max \*/  
 1 /\*feeding category: 1 = insectivore, 2 = herbivore, 3 = granivore, 4 = omnivore\*/  
 1.0 0.0 0.0 0.0 0.0 /\*Fraction of each food item, insects, seeds, fruit, grass, broadleaf\*/  
 1 0 0 0 0 /\*For juveniles: fraction of each food item, insects, seeds, fruit, grass, broadleaf\*/  
 1 /\*Resident status, 1=field, 0 = edge\*/  
 0.2 0.0 1.0 /\*Frequency on field: mean, min, max\*/  
 0.6 /\*Fidelity factor (Q), edge residents = 0.6, field residents = 0.8\*/

1.00 1.00 1.00 1.00 1.00 /\*Contaminated fraction of food\*/  
 7 7 7 7 7 /\*Food item half-lives (days)\*/  
 5 /\*Pesticide half-life (days) in puddle\*/  
 10 /\*Koc (L/kg-oc)\*/  
 1.4 /\*Kow\*/  
 2.07e-07 /\*Henry's law constant (atm/m<sup>3</sup>-mol)\*/  
 20 /\*solubility in water (mg a.i./L)\*/  
 7.8e-06 /\*Dislodgable foliar residue adjustment factor\*/  
 1.0 /\*Dermal adsorption fraction\*/

100.0 /\*avian acute oral LD50 (mg a.i./kg-bw)\*/  
 4.5 /\*slope of avian oral LD50\*/  
 200.0 /\*avian acute inhalation LD50 (mg a.i./kg-bw), value must be converted from concentration to dose basis, enter 0 if no value is available \*/  
 9.6 /\*Rat inhalation LD50 (mg a.i./kg-bw), value must be converted from concentration to dose basis\*/  
 6.0 /\*rat acute oral LD50 (mg a.i./kg-bw)\*/  
 3.3 /\*Respiratory physiology adjustment factor\*/  
 0 /\*Chemical specific avian dermal LD50, enter 0 if no value is available\*/  
 1.0 /\*Food matrix adjustment factor\*/  
 0.93303 /\*Fraction of pesticide retained from one hour to the next\*/  
 1.0 /\*ratio of juvenile to adult toxicity\*/