

## APPENDIX E.

### Example of T-REX Output

#### Upper Bound Kenaga Residues For RQ Calculation

|                      |                    |
|----------------------|--------------------|
| Chemical Name:       | EPTC               |
| Use                  | Alfalfa            |
| Formulation          | 0                  |
| Application Rate     | 3.06 lbs a.i./acre |
| Half-life            | 35 days            |
| Application Interval | 40 days            |
| Maximum # Apps./Year | 4                  |
| Length of Simulation | 1 year             |

| Endpoints                    |                |                    |          |
|------------------------------|----------------|--------------------|----------|
| Avian                        | Bobwhite quail | LD50 (mg/kg-bw)    | 2510.00  |
|                              | Bobwhite quail | LC50 (mg/kg-diet)  | 20000.00 |
|                              | Bobwhite quail | NOAEL(mg/kg-bw)    | 0.00     |
|                              | Mallard duck   | NOAEC (mg/kg-diet) | 242.00   |
| Mammals                      |                | LD50 (mg/kg-bw)    | 1465.00  |
|                              |                | LC50 (mg/kg-diet)  | 0.00     |
|                              |                | NOAEL (mg/kg-bw)   | 10.00    |
|                              |                | NOAEC (mg/kg-diet) | 200.00   |
| Dietary-based EECs (ppm)     |                | Kenaga Values      |          |
| Short Grass                  |                | 1285.80            |          |
| Tall Grass                   |                | 589.33             |          |
| Broadleaf plants/sm Insects  |                | 723.26             |          |
| Fruits/pods/seeds/lg insects |                | 80.36              |          |

## Avian Results

| Dose-based EECs<br>(mg/kg-bw) | Avian Classes and Body Weights |        |        |
|-------------------------------|--------------------------------|--------|--------|
|                               | small                          | mid    | large  |
|                               | 20 g                           | 100 g  | 1000 g |
| Short Grass                   | 1464.40                        | 835.06 | 373.87 |
| Tall Grass                    | 671.18                         | 382.74 | 171.36 |
| Broadleaf plants/sm Insects   | 823.73                         | 469.72 | 210.30 |
| Fruits/pods/seeds/lg insects  | 91.53                          | 52.19  | 23.37  |

| Dose-based RQs (Dose-based<br>EEC/adjusted LD50) | Avian Acute RQs |       |        |
|--------------------------------------------------|-----------------|-------|--------|
|                                                  | 20 g            | 100 g | 1000 g |
|                                                  |                 |       |        |
| Short Grass                                      | 0.81            | 0.36  | 0.11   |
| Tall Grass                                       | 0.37            | 0.17  | 0.05   |
| Broadleaf plants/sm insects                      | 0.46            | 0.20  | 0.06   |
| Fruits/pods/seeds/lg insects                     | 0.05            | 0.02  | 0.01   |

| Dietary-based RQs (Dietary-based<br>EEC/LC50 or NOAEC) | RQs   |         |
|--------------------------------------------------------|-------|---------|
|                                                        | Acute | Chronic |
|                                                        |       |         |
| Short Grass                                            | 0.06  | 5.31    |
| Tall Grass                                             | 0.03  | 2.44    |
| Broadleaf plants/sm Insects                            | 0.04  | 2.99    |
| Fruits/pods/seeds/lg insects                           | 0.00  | 0.33    |

## Mammalian Results

| Dose-Based EECs<br>(mg/kg-bw) | Mammalian Classes and Body weight |        |        |            |       |        |
|-------------------------------|-----------------------------------|--------|--------|------------|-------|--------|
|                               | Herbivores/ insectivores          |        |        | Granivores |       |        |
|                               | 15 g                              | 35 g   | 1000 g | 15 g       | 35 g  | 1000 g |
| Short Grass                   | 1225.91                           | 847.27 | 196.44 |            |       |        |
| Tall Grass                    | 561.88                            | 388.33 | 90.04  |            |       |        |
| Broadleaf plants/sm Insects   | 689.58                            | 476.59 | 110.50 |            |       |        |
| Fruits/pods/seeds/lg insects  | 76.62                             | 52.95  | 12.28  | 17.03      | 11.77 | 2.73   |

| Dose-based RQs (Dose-based EEC/LD50 or NOAEL) | 15 g mammal |         | 35 g mammal |         | 1000 g mammal |         |
|-----------------------------------------------|-------------|---------|-------------|---------|---------------|---------|
|                                               | Acute       | Chronic | Acute       | Chronic | Acute         | Chronic |
| Short Grass                                   | 0.38        | 55.78   | 0.33        | 47.65   | 0.17          | 25.54   |
| Tall Grass                                    | 0.17        | 25.57   | 0.15        | 21.84   | 0.08          | 11.71   |
| Broadleaf plants/sm insects                   | 0.21        | 31.38   | 0.18        | 26.80   | 0.10          | 14.37   |
| Fruits/pods/lg insects                        | 0.02        | 3.49    | 0.02        | 2.98    | 0.01          | 1.60    |
| Seeds (granivore)                             | 0.01        | 0.77    | 0.00        | 0.66    | 0.00          | 0.35    |

| Dietary-based RQs<br>(Dietary-based EEC/LC50 or NOAEC) | Mammal RQs |         |
|--------------------------------------------------------|------------|---------|
|                                                        | Acute      | Chronic |
| Short Grass                                            | #DIV/0!    | 6.43    |
| Tall Grass                                             | #DIV/0!    | 2.95    |
| Broadleaf plants/sm insects                            | #DIV/0!    | 3.62    |
| Fruits/pods/seeds/lg insects                           | #DIV/0!    | 0.40    |