Appendix G. Output From the STIR Model

Input		
Application and Chemical Information	**Inputs**	**Conclusion**
Enter Chemical Name	Deltamethrin	
Enter Chemical Use	Ant Mound Treatment	
Is the Application a Spray? (enter y or n)	y	
If Spray What Type (enter ground or air)	ground	
Enter Chemical Molecular Weight (g/mole)	505.2	
Enter Chemical Vapor Pressure (mmHg)	9.32E-11	
Enter Application Rate (lb a.i./acre)	1.942	
Toxicity Properties		
Bird		
Enter Lowest Bird Oral LD_{50} (mg/kg bw)	**2250.00**	
Enter Mineau Scaling Factor	1.15	
Enter Tested Bird Weight (kg)	0.178	
Mammal		
Enter Lowest Rat Oral LD_{50} (mg/kg bw)	67	
Enter Lowest Rat Inhalation LC_{50} (mg/L)	0.6	
Duration of Rat Inhalation Study (hrs)	4	
Enter Rat Weight (kg)	0.35	
Output		
Results Avian (0.020 kg)		
Maximum Vapor Concentration in Air at Saturation (mg/m^3)	2.53E-06	
Maximum 1-hour Vapor Inhalation Dose (mg/kg)	3.19E-07	
Adjusted Inhalation LD_{50}	1.12E+02	
Ratio of Vapor Dose to Adjusted Inhalation LD_{50}	2.84E-09	**Exposure not Likely Significant**
Maximum Post-treatment Spray Inhalation Dose (mg/kg)	2.05E-01	
Ratio of Droplet Inhalation Dose to Adjusted Inhalation LD_{50}	1.83E-03	**Exposure not Likely Significant**
Results Mammalian (0.015 kg)		
Maximum Vapor Concentration in Air at Saturation (mg/m^3)	2.53E-06	
Maximum 1-hour Vapor Inhalation Dose (mg/kg)	4.00E-07	
Adjusted Inhalation LD_{50}	3.57E+01	
Ratio of Vapor Dose to Adjusted Inhalation LD_{50}	1.12E-08	**Exposure not Likely Significant**
Maximum Post-treatment Spray Inhalation Dose (mg/kg)	2.58E-01	
Ratio of Droplet Inhalation Dose to Adjusted Inhalation LD_{50}	7.22E-03	**Exposure not Likely Significant**