



OPP OFFICIAL RECORD
HEALTH EFFECTS DIVISION
SCIENTIFIC DATA REVIEWS
EPA SERIES 361
MEMORANDUM

9
FILE

TO: Al Nielsen EPA/OPP/OREB

cc: 2110.003 File
Tim Leighton
Jeff Evans
Larry Dorsey

FROM: Jeff Dawson 

DATE: 10/5/93

SUBJECT: Test Case REI/Risk Analysis using Chlorothalonil Tomato Harvester Study

Pursuant to your request, a reentry interval and risk analysis has been completed on the chlorothalonil human exposure and concurrent FDR/whole tomato residue data (i.e., *A Tomato Harvester Exposure Study with Chlorothalonil - 1984*). To summarize, kinetics, exposure, and risk analyses were completed and transfer coefficients were calculated. Residue levels were not corrected for laboratory recovery as all reported mean values were > 90 percent and the origins of the quality control samples were not easily identifiable. [Note: No field recovery samples were generated in this study.]

The kinetics analyses involved linear regressions of the data (i.e., FDR or Whole Tomato Levels vs. Sample Interval) as supplied and in a semilog transformation of the residue levels. Additionally, half-life values were also calculated using pseudo-first order reaction kinetics and equations for each scenario were generated using the simple linear equation $y = mx + b$. Generally, the correlation coefficients were approximately the same for either set of regressions (i.e., linear or semilog). These values are summarized below:

Correlation Coefficient Summary

Data Type	Linear Analysis	Semilog Analysis
FDR	0.96689	0.97335
Whole Tomato	0.81281	0.81201

Half-life values (PAI-Days) were also calculated and are summarized in similar fashion:

Half-Life Values (Residue vs. PAI-Days)

Data Type	Linear Analysis	Semilog Analysis
FDR	4.27	15.26
Whole Tomato	32.27	17.34

There was little dissipation over the study interval and, based on the values presented above, there seems to be good correlation between the chlorothalonil residue levels and the sample collection intervals. In fact, the lower and upper limits of the 95 percent confidence interval were calculated for each type of data to further demonstrate this fact. All kinetics analyses which were completed are included as **Attachment A**.

Normalized exposure levels were calculated based on two distinct sets of factors (i.e., the hours worked and the productivity or pounds picked). Initially, working tables were developed which adjusted the reported dermal exposure levels on a per patch basis up to the levels representing an entire body area much as though PHED calculates exposure levels (e.g., for the chest: multiply patch residue (ug) by the chest surface area (3550 cm²) and divide by the patch sample area (68.15 cm²)). [Note: These working tables are included in Attachment B and they may be difficult to understand without further explanation; these tables were essentially provided for informational purposes only. Additionally, the tables also included the calculation of the normalized exposure levels.] All calculations were completed using standard scenarios including all "non-detect" levels were considered as 1/2 of the detection limit for that particular sample matrix. Generally, the majority (@ 90% or greater) of exposure for all scenarios was attributable to hand exposure. For this reason "Total/Inside" exposure levels were not adjusted to account for the entire body surface area exposures (e.g., no protection factor was used to estimate exposure levels where no dermal dosimeter was worn under the coveralls such as the forearms/thighs and exposure levels were not calculated on a universal basis using data from specific body parts). Inhalation exposure, as expected, was minimal. All exposure values are presented in the summary sheet included in Attachment B and the mean values for each scenario are summarized below:

Normalized Exposure Levels

PAI (Days)	Dosimeter/Exposure Type	Exposure (ug/hr worked)	Exposure (ug/lb picked)
0	Total/Outside	42712	152.50
	Total/Inside	39032	138.86
1	Total/Outside	46770	126.48
	Total/Inside	41487	111.58
3	Total/Outside	33689	118.53
	Total/Inside	29362	102.99
7	Total/Outside	34805	120.82
	Total/Inside	31604	109.53

*Total/Outside represents exposure calculated based on the nonprotected dermal dosimeters worn on the exterior of the coveralls (i.e., chest, back, shoulder, upper arm, forearm, thigh & ankle), the nonprotected gloves, and inhalation.

*Total/Inside represents exposure calculated based on the protected dermal dosimeters worn underneath the coveralls (i.e., ankles, chest & back), the nonprotected gloves (exterior protective gloves not required by label), and inhalation.

Transfer coefficients based on the actual study data were calculated (Attachment C) using exposures which were normalized on (1) the duration of the exposure interval (i.e., average values = 10688 cm²/hour for total deposition and 9561 cm²/hour for a normal work clothing scenario), and (2) the worker's productivity (i.e., average values = 164.5 lb picked/hr for total deposition and 147.0 lb picked/hr for a normal work clothing scenario). These values were calculated using the following equations:

$$\text{FDR(Normalization by Hours Worked)}: \text{Exposure}(\text{ug}/\text{hour})/\text{FDR Level}(\text{ug}/\text{cm}^2)$$

$$\text{FDR(Normalization by lbs Tomatoes Picked)}: [\text{Exposure}(\text{ug}/\text{lb picked}) * \text{Tomato Picking Rate}(\text{lb}/\text{hour})/\text{FDR}(\text{ug}/\text{cm}^2)]$$

$$\text{Whole Tomatoes(Normalization by Hours Worked)}: [\text{Exposure}(\text{ug}/\text{hour})/\text{Tomato Residue}(\text{ppm})/(1\text{lb}/454\text{g})]$$

$$\text{Whole Tomatoes(Normalization by Pounds Tomatoes Picked)}: [((\text{Exposure}(\text{ug}/\text{lb}) * \text{Tomato Picking Rate}(\text{lb}/\text{hour})/\text{Tomato Residue}(\text{ppm})) * (1\text{lb}/454\text{g}))]$$

[Note: A standard tomato picking rate was defined based on the actual study field data/observations (i.e., 307 lb/hour).]

In addition to the transfer coefficients described above, linear equations were developed which related FDR or Whole Tomato residue levels to exposure levels (Attachment C). It should be noted that there was better correlation between the whole tomato residue levels and exposure than the corresponding FDR levels and exposure. [Note: Technical issues exist which must be clarified concerning the tomato extraction procedures—see separate study review memo when released.] Additionally, using predicted FDR and Whole Tomato residue levels up to 35 days post-application (See Attachment A) and the linear residue level/exposure equations predicted exposure levels were calculated for upto 35 days post-application (equations included as part of Attachment C). Exposure levels declined as expected over time along with the residue levels. A comparison of the two techniques (i.e., transfer coefficients or predictive linear equations) for estimating exposure levels from environmental residue data was also completed as part of this effort. The two techniques did not significantly diverge (i.e., calculated exposures did not differ by greater than an average of 20%) until approximately 23 days post-application.

Lifetime Average Daily Exposure (LADEs) were calculated for a variety of scenarios using the following equation:

$$\text{LADE (mg/day)} = [\text{Exposure/Event (mg/workday)}] * [\text{Annual Exposure (days)}/365 (\text{days})] * [\text{Work Interval (yrs)}/\text{Avg. Lifetime (yrs)}]$$

Where:

$$[\text{Exposure/Event (mg/workday)}] = [\text{Exposure (mg/hour)} * \text{Daily Hours}] \text{ or } [\text{Exposure (mg/lb picked)} * \text{Tomato Picking Rate (lb/hr)} * \text{Daily Hours}]$$

The actual exposure levels over the course of study (i.e., mg/workday) which served as the basis for the LADE calculations ranged from approximately 270 to 374 mg/workday for total deposition and from approximately 235 to 340 mg/workday for the work clothing scenario. For the predicted values, daily exposure values ranged from a low of approximately 0.15 mg/day at 35 days to a high level of 313 mg/workday at 0 days after application. Predicted exposure levels varied slightly depending upon the way they were calculated. More significant differences were noted as the post-application time interval increased (i.e., the correlation of the exposure levels with time decreased).

Each of the LADE exposure scenarios used for these calculations are summarized below:

LADE Exposure Scenario Summary

Parameter	Range
Daily Work Interval (Hours)	8
Annual Exposure (Days)	15, 30, 45, 60
Total Work Interval (Years)	10, 20, 30
Tomato Picking Rate (lb/hour)	307
Average Lifetime (Years)	70

In addition to the LADE calculations described above, risk levels were calculated for each LADE scenario using the following equation:

$$\text{Risk} = [\text{LADE (mg/day)} \times \text{Q1}^* (\text{mg/kg/day}^{-1}) \times (\text{Dermal Absorption Factor (\%)/100})] / [\text{Body Weight (kg)}]$$

The toxicological parameters used for these calculations are presented below:

Description	Parameter
Q1* (mg/kg/day ⁻¹)	0.011
Average Body Weight (kg)	70
Dermal Absorption Factors (%)	1, 5, 10, 20, 50, 100

LADE and the corresponding risk values were calculated for each exposure/risk scenario described above using both actual and predicted exposure values. Based on the actual exposure data, LADEs were on the order of 1 to 30 mg/day (i.e., 0, 1, 3, & 7 days post-application only) while risks were in the 10⁻⁶ (i.e., only for a dermal absorption factor of 1%) to 10⁻⁴ range (Attachment D). Based on predicted exposure levels (i.e., linear regressions of FDR/time & FDR/exposure up to 35 days post-application – see Attachments A & C), LADEs were on the order of 0.1 to 22 mg/day while risks ranged from 10⁻⁷ to 10⁻³ (Attachment E).

Any regulatory decisions made using this Risk/REI analysis should also account for the inadequacies described in the review memo about to be released for this study. Also note that the level of effort for this analysis may not be typical of such future analyses as chlorothalonil is a test case chemical for the development, evaluation, and validation of methodologies for post-application exposure data (i.e., Subdivision K Data Treatments—see June 6, 1993 memo *Objectives for the Development of Standard Analysis Procedures for both Subdivision K and Subdivision U data based on June 16 meeting between Jeff Evans, Tim Leighton, and Jeff Dawson*). Should you have any questions please do not hesitate to call me at 703-750-3000.

Enclosures:

Attachments A through E

ATTACHMENT A
KINETICS ANALYSIS

PPA SUPPORT TASK:1627.8

VERSAR, INC. 8/30/93 JLD

REVIEW OF CHLOROTHALONIL FOLIAR DISLodgeABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

DISSIPATION KINETICS CALCULATIONS:PSEUDO 1st ORDER ANALYSIS

STUDY DAY	RESIDUE LEVELS		Ln (RESIDUE LEVELS)	
	FDR (ug/cm2)	TOMATOES (ppm)	FDR (ug/cm2)	TOMATOES (ppm)
0.00	4.300	0.630	1.4586	-0.4620
1.00	3.830	0.570	1.3429	-0.5621
3.00	3.750	0.460	1.3218	-0.7765
7.00	3.040	0.470	1.1119	-0.7550
LINEAR REGRESSION (LIN/LIN)			LINEAR REGRESSION (SEMILOG)	
FDR LEVELS				
Regression Output:			Regression Output:	
Constant	4.17670280632		Constant	1.43363699009
Std Err of Y Est	0.16253241394		Std Err of Y Est	0.04055863488
R Squared	0.9348859118		R Squared	0.94740967567
No. of Observations	4		No. of Observations	4
Degrees of Freedom	2		Degrees of Freedom	2
Correlation Coefficient	0.96689498489		Correlation Coefficient	0.9733497191
X Coefficient(s)	-0.162435907		X Coefficient(s)	-0.04540457
Std Err of Coef.	0.0303127414		Std Err of Coef.	0.007564297
WHOLE TOMATO LEVELS				
Regression Output:			Regression Output:	
Constant	0.59156595167		Constant	-0.5290520017
Std Err of Y Est	0.05838239808		Std Err of Y Est	0.10887884348
R Squared	0.66065559059		R Squared	0.65936291126
No. of Observations	4		No. of Observations	4
Degrees of Freedom	2		Degrees of Freedom	2
Correlation Coefficient	0.81260722843		Correlation Coefficient	0.81201184479
X Coefficient(s)	-0.021478333		X Coefficient(s)	-0.03995398
Std Err of Coef.	0.0108847475		Std Err of Coef.	0.020306203
HALF LIFE:DAYS (LIN/LIN)			HALF LIFE:DAYS (LIN/Ln)	
FDR	WHOLE TOMATOES		FDR	WHOLE TOMATOES
4.27	32.27		15.26	17.34
LINEAR EQUATIONS BASED ON SEMILOG ANALYSIS OF DISSIPATION DATA				
CHLOROTHALONIL (FDR):	[CHLOROTHALONIL (UG/CM2)] = e ^ ([PAI (DAYS)] * (-0.045405)) + (1.43363699)			
CHLOROTHALONIL (TOMATO):	[CHLOROTHALONIL (PPM)] = e ^ ([PAI (DAYS)] * (-0.039954)) + (-0.529052)			

NOTES:

- * ALL VALUES USED FOR CALCULATIONS ARE AVERAGES OF REPLICATE SAMPLE ANALYSES AT EACH INTERVAL.
- * HALF LIVES CALCULATED USING PSEUDO 1st ORDER REACTION KINETICS MODEL $t_{1/2} = 0.693/K_a$ WHERE $K_a = X$ COEFFICIENT.
- * ALL RESIDUE VALUES ARE AVERAGE LEVELS FOR EACH SAMPLE COLLECTION INTERVAL.
- * RESIDUE LEVELS NOT CORRECTED FOR AVAILABLE QC RESULTS AS ALL AVERAGE RECOVERIES WERE $\geq 90\%$.
- * PAI = POST APPLICATION INTERVAL.

PPA SUPPORT TASK: 2110.003

VERSAR, INC. 9/10/93 JLD

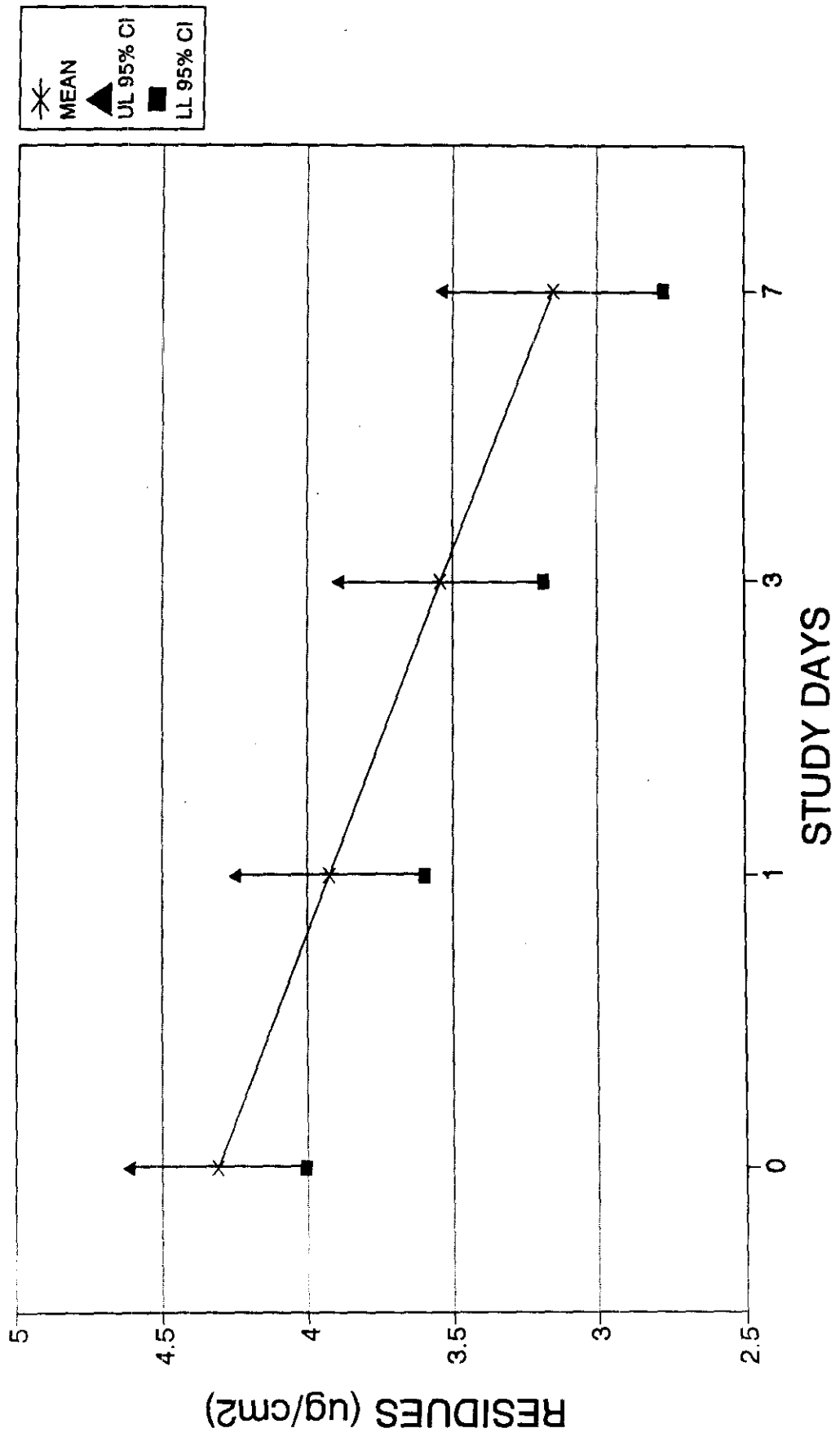
ANALYSIS OF AVAILABLE TOMATO RESIDUE AND FDR DISSIPATION DATA

REPLICATE NUMBER	TOMATO RESIDUE LEVELS (ppm)			
	DAY 0	DAY 1	DAY 3	DAY 7
1	0.500	0.450	0.410	0.800
2	0.720	0.560	0.550	0.340
3	0.700	0.900	0.360	0.250
4	0.390	0.400	0.700	0.510
5	0.430	0.570	0.400	0.540
6	0.680	0.390	0.130	0.390
7	0.450	0.820	0.660	0.570
8	0.980	0.390	0.890	0.470
9	0.480	0.650	0.220	0.240
10	0.960	0.570	0.290	0.570
STD DEV	0.204	0.169	0.224	0.161
CV (%)	32.437	29.669	48.606	34.451
MEAN	0.629	0.570	0.461	0.468
UL 95% CI	0.755	0.675	0.600	0.568
LL 95% CI	0.503	0.465	0.322	0.368

REPLICATE NUMBER	FDR LEVELS (ug/cm2)			
	DAY 0	DAY 1	DAY 3	DAY 7
1	4.87	2.50	2.68	3.22
2	3.91	2.34	3.77	2.23
3	4.36	2.60	3.80	3.47
4	4.47	2.37	3.76	2.56
5	4.42	4.51	3.74	2.76
6	4.34	3.31	3.08	2.52
7	3.85	3.18	4.10	2.88
8	4.17	4.56	4.02	3.17
9	4.03	2.95	4.13	2.08
10	5.01	4.03	3.20	3.35
11	3.98	2.64	2.44	1.92
12	5.27	4.64	3.89	3.04
13	3.77	5.46	6.47	4.80
14	3.73	3.33	2.46	2.77
15	3.55	4.83	3.70	2.76
16	4.48	5.56	5.29	4.31
17	4.97	4.30	4.53	3.09
18	4.17	4.27	2.82	2.79
19	4.61	4.56	3.87	2.95
20	4.22	4.74	3.51	4.17
STD DEV	0.47	1.02	0.92	0.71
CV (%)	10.85	26.65	24.52	23.24
MEAN	4.30	3.83	3.75	3.04
UL 95% CI	4.50	4.28	4.16	3.35
LL 95% CI	4.09	3.39	3.35	2.73

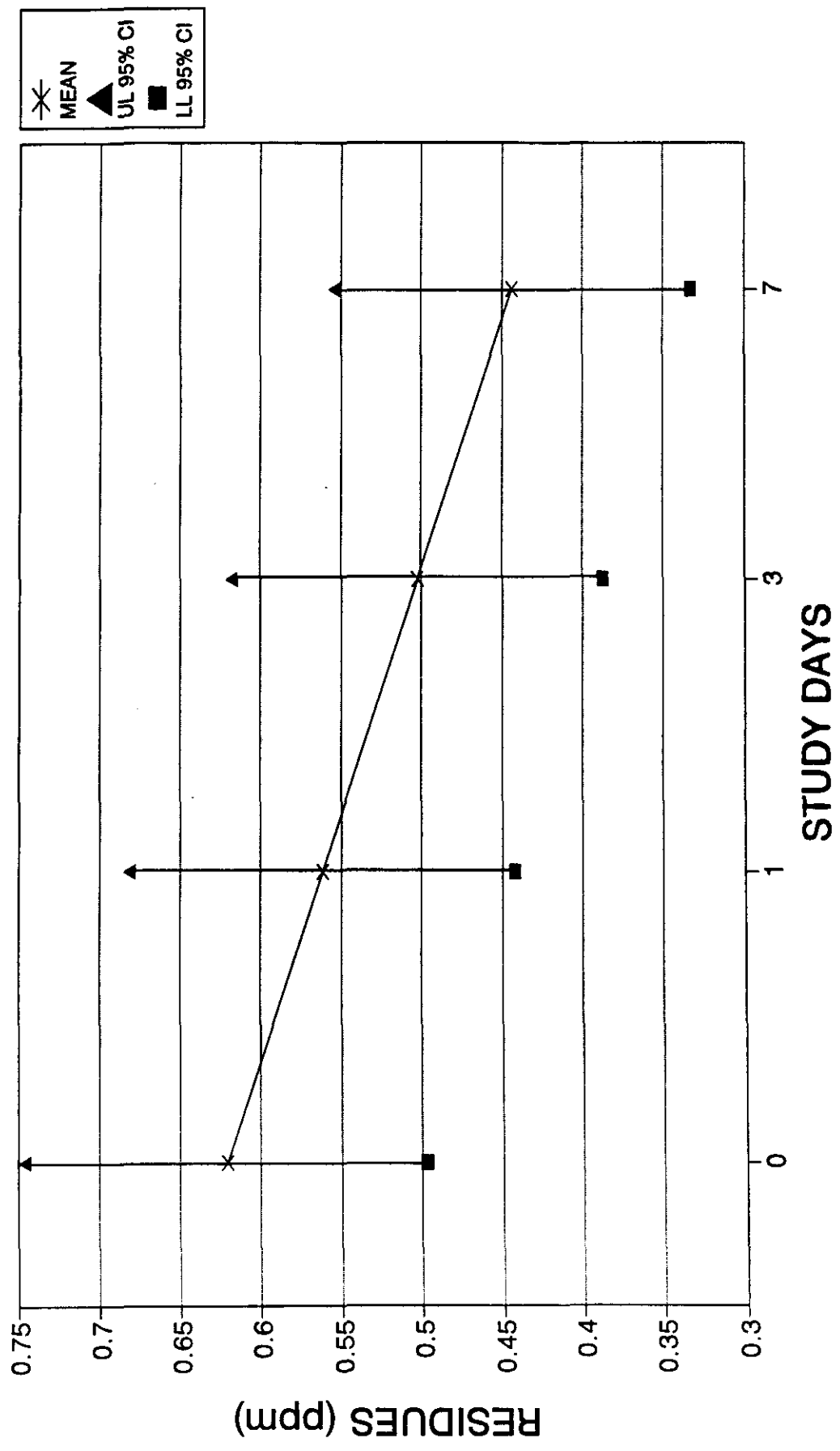
CHLOROTHALONIL TOMATO/FDR

FDR DATA



CHLOROTHALONIL TOMATO/FDR

WHOLE TOMATO DATA



ATTACHMENT B

EXPOSURE CALCULATIONS

PPA SUPPORT TASK 1627.8
 VERSAR, INC. 9/2/83, JLD
 CHLOROTHALONIL FOR REENTRY EXPOSURE STUDY - SUMMARY OF NORMALIZED EXPOSURE LEVELS

PAI (DAYS)	DOSIMETER TYPE	EXPOSURE (ug/hr workday)										EXPOSURE (ug/hr penile)											
		REPLICATE #										REPLICATE #											
		1	2	3	4	5	6	7	8	9	10	MEAN	1	2	3	4	5	6	7	8	9	10	MEAN
0	OUTSIDE	36854	31235	39580	33942	45305	50204	45091	47707	57126	40366	42700	187.91	116.21	152.50	105.86	165.30	143.96	196.33	180.48	175.50	137.72	152.45
	INSIDE	53.3	53.1	54.5	87.3	54.3	81.3	69.0	54.8	78.0	55.4	61.9	0.24	0.20	0.22	0.21	0.22	0.23	0.24	0.21	0.23	0.19	0.22
	HAND	31411	27740	35114	28052	39783	47124	42657	43195	54745	34598	36957	143.11	103.20	130.87	90.48	182.84	155.06	148.42	168.18	131.58	138.80	
	INHALATION	8.70	11.75	11.86	15.52	22.52	9.48	8.26	14.31	14.31	9.17	12.80	0.04	0.04	0.05	0.05	0.06	0.03	0.05	0.04	0.03	0.05	
	TOTAL/OUTSIDE	36864	31247	39572	33958	45327	50213	45101	47722	57142	40378	42712	187.86	116.25	152.55	105.73	165.36	143.92	196.35	180.53	175.54	137.75	152.50
1	TOTAL/INSIDE	31474	27805	35180	29134	39840	47215	42835	43284	54835	36534	39032	143.40	103.44	136.13	90.71	182.85	155.32	148.72	163.86	131.80	138.86	
	OUTSIDE	50217	42253	44712	35525	45985	41348	42073	43638	73544	47827	48753	198.87	109.80	138.70	95.80	138.51	102.58	126.57	120.80	153.08	113.85	128.44
	INSIDE	53.1	50.8	50.3	74.3	59.7	86.2	85.2	118.7	80.9	33.7	62.4	0.18	0.08	0.18	0.20	0.12	0.17	0.26	0.33	0.13	0.06	0.17
	HAND	43707	39247	33582	30059	41448	38068	38108	37544	68555	44625	41609	145.32	102.06	104.17	81.07	123.04	86.55	114.84	102.90	145.40	105.82	111.36
	TOTAL/OUTSIDE	13.50	12.11	14.86	18.83	20.96	14.83	21.81	22.84	15.86	18.04	18.48	0.04	0.03	0.05	0.05	0.06	0.04	0.06	0.03	0.03	0.05	0.06
3	TOTAL/INSIDE	50230	42265	44727	35544	46005	41363	42084	43651	73558	47840	48770	187.01	109.83	138.74	95.86	138.57	102.61	126.63	120.88	153.11	113.88	128.46
	OUTSIDE	43774	39280	33655	30153	41510	38178	38215	37485	68630	44681	41487	145.84	102.20	104.40	81.32	123.22	88.75	114.88	102.88	145.35	105.83	111.38
	INSIDE	47102	29884	33342	29225	34805	31306	33842	28187	36289	28530	28972	175.02	83.86	123.23	102.73	126.13	88.80	141.27	110.52	116.75	96.32	118.47
	HAND	30.5	30.9	51.0	85.7	56.2	58.0	78.5	100.5	30.7	38.4	54.0	0.11	0.10	0.18	0.23	0.20	0.16	0.32	0.35	0.09	0.13	0.16
	INHALATION	37699	27280	28247	24861	30330	28557	29187	24898	35086	28786	29291	140.08	85.71	104.40	87.38	108.80	90.11	121.49	94.27	105.86	87.38	102.74
7	TOTAL/OUTSIDE	12.17	10.54	27.84	15.78	17.31	12.33	21.70	21.31	22.21	8.33	18.77	0.03	0.03	0.10	0.08	0.06	0.04	0.08	0.07	0.02	0.02	0.08
	OUTSIDE	175.07	84.00	123.33	102.78	126.18	88.84	141.38	110.61	116.82	96.34	118.53	175.07	84.00	123.33	102.78	126.18	88.84	141.38	110.61	116.82	96.34	118.53
	INSIDE	140.24	85.84	104.68	87.87	108.86	90.34	121.80	94.74	107.13	87.53	102.89	140.24	85.84	104.68	87.87	108.86	90.34	121.80	94.74	107.13	87.53	102.89
	HAND	148.53	101.26	114.74	118.13	131.19	118.00	116.34	124.47	122.17	112.80	120.78	148.53	101.26	114.74	118.13	131.19	118.00	116.34	124.47	122.17	112.80	120.78
	TOTAL/OUTSIDE	0.11	0.14	0.12	0.27	0.11	0.13	0.15	0.27	0.10	0.10	0.21	0.11	0.14	0.12	0.27	0.11	0.13	0.15	0.27	0.10	0.10	0.21
TOTAL/INSIDE	OUTSIDE	122.71	84.77	97.53	108.62	122.83	110.06	107.00	104.36	116.18	107.55	109.26	122.71	84.77	97.53	108.62	122.83	110.06	107.00	104.36	116.18	107.55	109.26
	INSIDE	0.08	0.09	0.08	0.07	0.07	0.03	0.08	0.08	0.09	0.03	0.08	0.08	0.09	0.08	0.07	0.03	0.08	0.08	0.09	0.03	0.08	
	HAND	148.53	101.26	114.73	118.20	131.28	118.03	116.43	124.53	122.23	112.83	120.82	148.53	101.26	114.73	118.20	131.28	118.03	116.43	124.53	122.23	112.83	120.82
	INHALATION	122.87	84.84	87.73	110.55	123.01	110.24	107.25	104.89	118.34	107.88	109.53	122.87	84.84	87.73	110.55	123.01	110.24	107.25	104.89	118.34	107.88	109.53
	TOTAL/INSIDE	122.87	84.84	87.73	110.55	123.01	110.24	107.25	104.89	118.34	107.88	109.53	122.87	84.84	87.73	110.55	123.01	110.24	107.25	104.89	118.34	107.88	109.53

NOTES:

- (ug/hr) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- (ug/lb picked) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH POUND OF TOMATOES HARVESTED
- "OUTSIDE" REPRESENTS VALUES WHICH WERE CALCULATED BASED ON PATCHES WORN ON THE EXTERIOR (i.e., CHEST, BACK, SHOULDER, UPPER ARM, FOREARM, THIGH & ANKLE) OF THE "JUMPSUITS" AND BY THE GLOVES WORN BY THE TEST SUBJECTS.
- "INSIDE" REPRESENTS VALUES WHICH WERE CALCULATED BASED ON PATCHES WORN ON THE INTERIOR (i.e., ANKLES, CHEST & BACK) OF THE "JUMPSUIT" WORN BY THE TEST SUBJECTS
- "HAND" REFERS TO EXPOSURE LEVELS WHICH WERE CALCULATED FOR THE GLOVE DATA ONLY.
- "TOTAL/OUTSIDE" = OUTSIDE VALUES + INHALATION VALUES (i.e., NAKED BODY SCENARIO)
- "TOTAL/INSIDE" = INSIDE VALUES + GLOVE VALUES + INHALATION VALUES (i.e., PROTECTED ANKLES, PROTECTED CHEST, PROTECTED BACK, NONPROTECTED HANDS & INHALATION).

REVIEW OF CHLOROTHALONIL FOLIAR DISSEMINABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

PAI (DAYS):

0

DERMAL PATCH AREA (cm²):

66.15

INHALATION RATE (Lpm):

29

QUANTIFICATION LIMITS		
MATRIX	VALUE	UNITS
COTTON GLOVES	20.0	ug
GAUZE PATCHES	0.001	ug/cm ²
CELLULOSE FILTERS	0.000	ug
CHROMOSORB TUBES	0.000	ug

DOSIMETER LOCATION		STD. VALUES	RAW DATA									
			1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES												
HANDS		820	142397	126216	155672	130246	170947	208132	187655	190057	238140	168418
ANKLE RIGHT		1190	0.271	0.493	0.924	0.516	1.906	0.826	0.563	0.613	1.299	1.112
ANKLE LEFT		1190	0.274	0.199	0.425	0.160	0.540	0.773	0.409	0.484	0.356	0.582
CHEST		3550	0.103	0.496	0.480	0.173	0.584	0.246	0.167	0.314	0.493	0.078
BACK		3550	0.074	0.109	0.118	0.101	0.065	0.103	0.084	0.124	0.127	0.063
SHOULDER RIGHT		1455	0.161	0.133	0.126	0.074	0.120	0.071	0.216	0.337	0.106	0.065
UPPER ARM RIGHT		1455	0.603	2.434	0.837	1.827	1.818	1.137	4.222	3.372	1.297	0.500
FOREARM RIGHT		605	0.273	1.230	0.350	0.749	0.345	0.434	0.866	0.453	0.892	0.290
THIGH RIGHT		1910	5.747	1.847	0.859	5.042	3.049	3.020	0.984	4.081	0.591	1.185
SHOULDER LEFT		1455	0.122	0.126	0.655	0.135	0.090	0.199	0.108	0.166	0.355	0.544
UPPER ARM LEFT		1455	0.575	1.568	2.697	1.065	0.440	1.344	1.862	1.750	0.444	0.790
FOREARM LEFT		605	0.298	0.409	0.522	0.330	1.090	0.836	0.777	0.397	0.323	0.202
THIGH LEFT		1910	5.513	2.741	3.211	3.855	5.888	1.177	1.027	2.287	1.357	0.509
HEAD		1300	0.372	0.143	0.138	0.284	ND	ND	0.864	0.214	0.116	0.320
INSIDE DEVICES												
ANKLE RIGHT		1190	ND	ND	ND	ND	ND	ND	0.050	ND	ND	ND
ANKLE LEFT		1190	ND	ND	ND	0.076	ND	0.124	0.052	ND	0.100	ND
CHEST		3550	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BACK		3550	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INHALATION												
FLOW RATE		LPM	1.57	1.87	1.64	1.6	1.6	1.57	1.6	1.54	1.64	1.6
FILTER		TOTAL	2.330	2.630	2.830	3.600	5.500	2.230	2.210	3.140	3.220	2.180
TUBE		FRONTS	0.050	0.250	0.160	0.040	ND	0.040	ND	0.210	0.260	ND
GENERIC DATA												
INTERVAL		MINUTES	272	273	296	298	287	285	283	284	281	282
HARVEST		POUNDS	995	1223	1121	1440	1068	1541	1257	1163	1416	1280
		LBS/HOUR	219	268	253	321	244	349	287	284	326	293

EXPOSURE TYPE	CALCULATED EXPOSURE LEVELS									
	REPLICATE #									
	1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES										
HANDS	142387	126216	155072	130246	176947	206132	187655	190057	238140	188419
ANKLE RIGHT	322.5	586.7	1099.8	618.4	2288.1	747.3	670.0	729.5	1545.8	1323.3
ANKLE LEFT	328.1	236.8	505.8	190.4	842.6	919.9	488.7	576.0	428.0	688.8
CHEST	385.3	1654.3	1633.0	614.2	2073.2	873.3	592.9	1114.7	1750.2	280.5
BACK	282.7	387.0	418.8	359.6	301.6	366.7	286.2	440.2	450.8	284.7
SHOULDER RIGHT	555.8	1867.5	702.0	1237.5	1408.9	878.8	3228.8	2868.3	1022.1	411.0
UPPER ARM RIGHT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS									
FOREARM RIGHT	165.2	744.2	211.8	453.1	206.7	282.6	415.0	274.1	521.9	175.5
THIGH RIGHT	10878.8	3527.8	1940.7	9830.2	5823.8	5768.2	1707.5	7756.5	1128.5	2225.2
SHOULDER LEFT	507.1	1232.4	2438.6	864.8	378.3	1120.4	1433.2	1379.3	581.3	970.5
UPPER ARM LEFT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS									
FOREARM LEFT	180.3	247.4	315.8	199.7	653.4	384.8	470.1	240.2	195.4	122.2
THIGH LEFT	10829.8	5258.3	8133.0	7363.1	10866.0	2248.1	1981.6	4368.2	2591.9	972.2
HEAD	483.6	185.9	178.4	389.2	33.2	33.2	1162.2	278.2	153.4	418.0
EXP (ug)	167072	142121	170860	152175	201808	221734	200281	238912	246507	178279
EXP (ug/hour)	36854	31256	36580	33942	43305	50204	45891	47707	57128	40388
EXP (ug/LB)	167.81	116.21	152.50	105.68	185.30	143.89	159.33	160.48	175.50	137.72
INSIDE DEVICES										
ANKLE RIGHT	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
ANKLE LEFT	30.3	30.3	30.3	30.3	30.3	30.3	147.6	61.8	30.3	119.0
CHEST	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
BACK	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
EXP (ug)	241.7	241.7	241.7	301.8	241.7	359.0	302.4	241.7	330.4	241.7
EXP (ug/hour)	53.3	53.1	54.5	67.3	54.3	81.3	68.0	54.9	76.0	55.4
EXP (ug/LB)	0.24	0.20	0.22	0.21	0.22	0.23	0.24	0.21	0.23	0.19
INHALATION										
FILTERS	43.04	48.14	50.04	68.88	99.89	41.19	40.08	59.13	57.12	38.51
TUBES	0.92	4.34	2.85	0.73	0.54	0.74	0.54	3.85	5.13	0.54
EXP (ug)	43.68	53.49	52.70	68.60	100.23	41.83	40.60	53.08	62.24	40.08
EXP (ug/hour)	8.70	11.78	11.86	13.52	22.52	8.40	8.26	14.34	14.31	8.17
EXP (ug/LB)	0.04	0.04	0.05	0.05	0.08	0.03	0.03	0.08	0.04	0.03

NOTES:

- * ALL RESIDUE LEVELS (i.e., ug/dosimeter, gloves or inhalation monitors and ug/cm²-patches) EXCEPTED DIRECTLY FROM STUDY REPORT. RAW DATA (e.g., chromatograms/dilutions) NOT AVAILABLE TO VERIFY EACH CALCULATION.
- * STD. VALUES* REPRESENTS STANDARD BODY SURFACE AREAS (cm²) FROM WHICH TOTAL DERMAL EXPOSURE LEVELS ARE CALCULATED. FOR THE INHALATION DATA, THESE VALUES REPRESENT AIR FLOW OR THE DOSIMETER TYPE.
- * RAW DATA INCLUDED IN THAT SECTION OF THE TABLE ARE PRESENTED AS ug chlorothalonil/sample-gloves, filters or adsorbent tubes) AND AS (ug/cm²-dermal patches).
- * RESIDUE DATA WERE NOT CORRECTED FOR ANY TYPE OF QUALITY CONTROL RESULTS AS THE MEANS FOR ALL AVAILABLE RECOVERY DATA WERE > = 90%.
- * HAND EXPOSURE LEVELS WERE NOT ADJUSTED/CALCULATED FOR ANY FACTOR. CUMULATIVE VALUES ARE INCLUDED IN THIS TABLE WHICH REPRESENT THE SEVERAL VALUES FOR EACH EXPOSURE REPLICATE THAT WERE REPORTED IN THE RAW DATA.
- * EXPOSURE LEVELS BASED ON DERMAL PATCH DATA WERE CALCULATED USING THE FOLLOWING EQUATION:
EXPOSURE PER BODY PART (ug) = (RESIDUE LEVEL (ug/cm²) * STANDARD BODY SURFACE (cm²))
- * RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WERE AVERAGED TOGETHER AND THE MEANS WERE USED IN THE CALCULATION USING A SURFACE AREA OF 1495 cm² FOR THE LEFT OR RIGHT SIDE OF THE BODY.
- * ONE-HALF OF THE QUANTIFICATION LIMIT USED IN ALL CALCULATIONS WHERE NO DETECTABLE CHLOROTHALONIL RESIDUES WERE IDENTIFIED IN THE SAMPLE.
- * INHALATION EXPOSURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION:
INHALATION EXPOSURE (ug) = (RESIDUE LEVEL (ug) * TYPICAL HUMAN INHALATION RATE (29 Lpm)/PERSONAL SAMPLING PUMP FLOW RATE (Lpm))
- * EXPOSURE LEVELS NORMALIZED AS (ug/LB) ARE BASED ON THE AMOUNT OF TOMATOES PICKED DURING EACH EXPOSURE INTERVAL.

QUANTIFICATION LIMITS	
MATRIX	VALUE
COTTON GLOVES	20.0 ug
GAUZE PATCHES	0.051 ug/cm ²
CELLULOSE FILTERS	0.080 ug
CHROMALON TUBES	0.080 ug

RAW DATA		REPLICATE #									
DOSIMETER LOCATION	STD. VALUES	1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES											
HANDS	820	344500	308092	264177	236467	320684	263952	269760	293771	479072	320827
ANKLE RIGHT	1190	1033	1066	0.831	1.227	3.005	2.198	4.566	2.302	2.404	2.067
ANKLE LEFT	1190	0.264	0.526	0.566	0.478	0.826	0.523	1.186	0.507	0.811	0.343
CHEST	3550	0.383	0.339	0.192	0.586	0.434	0.251	0.510	1.324	0.808	0.151
BACK	3550	0.167	0.629	0.361	0.287	0.562	0.208	0.366	0.230	0.252	0.069
SHOULDER RIGHT	1435	0.946	0.221	0.301	0.218	0.117	0.270	0.544	0.827	0.570	0.106
UPPER ARM RIGHT	1455	1.442	1.612	2.653	1.426	1.303	3.299	4.252	3.965	1.486	1.360
FOREARM RIGHT	605	0.669	0.608	13.760	2.228	1.176	3.152	1.296	1.090	1.774	0.866
THIGH RIGHT	1910	17.800	3.299	11.900	9.466	4.965	11.800	2.839	12.390	2.067	3.820
SHOULDER LEFT	1455	0.144	0.422	1.186	0.221	0.107	0.217	0.289	0.478	0.308	0.350
UPPER ARM LEFT	1455	1.111	0.661	3.269	0.754	1.686	3.064	4.892	3.401	1.444	2.670
FOREARM LEFT	605	0.541	0.444	1.460	0.687	2.873	0.813	1.803	2.135	1.448	0.338
THIGH LEFT	1910	4.585	4.281	24.260	6.313	6.964	3.225	2.859	6.791	4.501	4.260
HEAD	1300	1.306	0.670	0.205	0.109	0.111	0.092	1.224	0.166	0.062	0.261
INSIDE DEVICES											
ANKLE RIGHT	1190	0.092	ND	0.092	0.066	0.065	0.066	0.166	0.202	0.090	ND
ANKLE LEFT	1190	ND	ND	0.056	0.066	ND	0.122	0.140	0.060	0.108	ND
CHEST	3550	ND	ND	ND	0.065	ND	0.054	0.054	0.143	ND	ND
BACK	3550	0.053	ND	0.054	ND	ND	ND	ND	ND	ND	ND
INHALATION											
FLOW RATE		1.58	1.65	1.67	1.56	1.56	1.56	1.56	1.55	1.6	1.56
FILTER	TOTAL	5.700	5.110	6.840	6.040	6.970	6.240	6.120	6.460	5.280	4.710
TUBE	FRONTS	0.100	0.300	0.100	ND	0.060	ND	ND	ND	ND	ND
GENERIC DATA											
INTERVAL	MINUTES	473	471	472	472	472	472	472	472	412	431
HARVEST	POUNDS	2371	3018	2536	2917	2680	3171	2615	2666	3296	3000
	LBS/HOUR	301	364	322	371	337	403	332	364	460	422

NOTES:

* ALL RESIDUE LEVELS (i.e., ug/dosimeter, gloves or inhalation monitors and ug/cm²-patches) EXCEPTED DIRECTLY FROM STUDY REPORT. RAW DATA (e.g., chromatogram/dilutions) NOT AVAILABLE TO VERIFY EACH CALCULATION.* STD. VALUES REPRESENT STANDARD BODY SURFACE AREAS (cm²) FROM WHICH TOTAL DERMAL EXPOSURE LEVELS ARE CALCULATED. FOR THE INHALATION DATA, THESE VALUES REPRESENT AIR FLOW ON THE DOSIMETER TYPE.* RAW DATA INCLUDED IN THAT SECTION OF THE TABLE ARE PRESENTED AS (ug chlorothalonil/sample - gloves, filters or adsorbent tubes) AND AS (ug/cm²-dermal patches).* RESIDUE DATA WERE NOT CORRECTED FOR ANY TYPE OF QUALITY CONTROL RESULTS AS THE MEANS FOR ALL AVAILABLE RECOVERY DATA WERE $\geq 80\%$.

* HAND EXPOSURE LEVELS WERE NOT ADJUSTED/CALCULATED FOR ANY FACTOR. CUMULATIVE VALUES ARE INCLUDED IN THIS TABLE WHICH REPRESENT THE SEVERAL VALUES FOR EACH EXPOSURE REPLICATE THAT WERE REPORTED IN THE RAW DATA.

* EXPOSURE LEVELS BASED ON DERMAL PATCH DATA WERE CALCULATED USING THE FOLLOWING EQUATION:

EXPOSURE PER BODY PART (ug) = [RESIDUE LEVEL (ug/cm²) * STANDARD BODY SURFACE (cm²)]RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WERE AVERAGED TOGETHER AND THE MEANS WERE USED IN THE CALCULATION USING A SURFACE AREA OF 1433 cm² FOR THE LEFT OR RIGHT SIDE OF THE BODY.

* ONE HALF OF THE QUANTIFICATION LIMIT USED IN ALL CALCULATIONS WHERE NO DETECTABLE CHLOROTHALONIL RESIDUES WERE IDENTIFIED IN THE SAMPLE.

* INHALATION EXPOSURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION:

INHALATION EXPOSURE (ug) = [RESIDUE LEVEL (ug) * TYPICAL HUMAN INHALATION RATE (20 L/min)]/PERSONAL SAMPLING PUMP FLOW RATE (L/min)

* EXPOSURE LEVELS NORMALIZED AS (ug/LB) ARE BASED ON THE AMOUNT OF TOMATOES PICKED DURING EACH EXPOSURE INTERVAL.

QUANTIFICATION LIMITS	
MATRIX	VALUE UNITS
COTTON GLOVES	20.0 ug
GAUZE PATCHES	0.051 ug/cm ²
CELLULOSE FILTERS	0.000 ug
CHROMOSORB TUBES	0.000 ug

DOSIMETER LOCATION		RAW DATA										
		STD. VALUES	1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES												
HANDS	820	299077	213079	223624	197228	233595	228549	231087	195430	270610	211628	
ANKLE RIGHT	1190	0.824	0.467	0.468	1.347	1.228	1.560	1.064	1.054	1.768	1.308	
ANKLE LEFT	1190	0.291	0.364	0.870	0.391	0.224	0.590	0.828	0.598	0.625	0.148	
CHEST	3550	0.157	0.191	0.352	0.145	0.461	0.227	0.218	0.348	0.433	0.142	
BACK	3550	0.110	0.062	0.218	0.200	0.246	0.198	0.323	0.270	0.236	0.148	
SHOULDER RIGHT	1455	0.227	0.271	0.277	0.311	0.280	0.211	0.874	0.844	0.321	0.157	
UPPER ARM RIGHT	1455	2.888	1.759	3.079	1.715	2.478	0.964	3.225	3.289	1.981	0.701	
FOREARM RIGHT	805	1.984	1.057	0.587	1.208	0.727	0.838	1.090	0.764	1.318	0.383	
THIGH RIGHT	1910	26.120	2.492	3.914	7.900	7.318	4.599	11.390	4.721	2.565	7.228	
SHOULDER LEFT	1455	0.270	0.169	0.518	0.170	0.220	0.198	0.888	0.375	0.348	0.327	
UPPER ARM LEFT	1455	1.256	0.349	1.818	1.818	2.008	1.074	1.193	4.708	1.498	1.280	
FOREARM LEFT	805	1.114	0.337	0.931	1.155	0.448	0.441	0.867	0.931	0.638	0.585	
THIGH LEFT	1910	8.665	5.588	12.710	6.070	8.533	3.343	2.828	6.730	5.858	1.380	
HEAD	1300	0.499	0.127	0.092	0.243	0.823	0.084	0.748	0.078	0.083	0.080	
INSIDE DEVICES												
ANKLE RIGHT	1190	ND	ND	ND	0.098	0.096	ND	0.166	0.099	0.173	ND	0.084
ANKLE LEFT	1190	ND	ND	ND	0.089	0.078	0.054	0.075	0.167	0.160	ND	ND
CHEST	3550	ND	ND	ND	ND	0.073	0.082	ND	0.056	0.085	ND	ND
BACK	3550	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INHALATION												
FLOW RATE	LPM	1.55	1.84	1.60	1.57	1.61	1.55	1.57	1.57	1.57	1.60	1.80
FILTER	TOTAL	5.040	4.830	12.080	8.750	7.530	5.180	9.230	9.110	9.800	2.730	
TUBE	FRONTS	0.120	ND	0.070	ND	ND	0.070	0.070	0.070	ND	0.080	ND
GENERIC DATA												
INTERVAL	MINUTES	478	489	475	478	472	476	475	471	473	474	
HARVEST	POUNDS	2135	2488	2142	2257	2177	2514	1902	2073	2506	2422	
	LBS/HOUR	289	318	271	284	277	317	240	284	328	307	

EXPOSURE TYPE		CALCULATED EXPOSURE LEVELS									
		1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES											
HANDS	29077	213079	224024	197228	233595	228549	231087	195430	270610	211628	
ANKLE RIGHT	980.8	783.7	580.7	1802.9	1481.3	1901.6	1296.2	1254.3	2127.7	1554.1	
ANKLE LEFT	346.3	457.0	797.3	429.8	268.8	898.4	892.8	873.5	743.8	173.7	
CHEST	537.4	678.1	1249.8	514.8	1707.8	805.9	798.8	1235.4	1537.2	504.1	
BACK	380.5	291.1	773.8	823.0	873.3	598.3	1148.7	958.5	837.8	516.3	
SHOULDER RIGHT	2286.2	1479.8	2441.5	1473.9	1901.9	989.4	2082.0	2898.5	1909.2	824.2	
UPPER ARM RIGHT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS										
FOREARM RIGHT	1168.2	838.5	385.1	728.8	439.5	597.5	659.5	492.2	798.2	213.8	
THIGH RIGHT	48698.2	4768.7	7475.7	14888.0	13973.8	8785.0	21897.8	9017.1	4899.2	13805.5	
SHOULDER LEFT	1110.2	378.8	1889.4	1448.3	1620.9	904.3	1354.8	3688.4	1320.4	1109.1	
UPPER ARM LEFT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS										
FOREARM LEFT	874.0	203.9	553.3	688.8	289.8	288.8	403.5	583.3	587.5	353.9	
THIGH LEFT	18550.2	10898.3	24278.1	11593.7	12573.5	6385.1	5403.4	12854.3	18088.7	2885.8	
HEAD	948.7	185.1	118.8	518.9	808.9	108.2	873.7	102.7	88.9	111.8	
INSIDE DEVICES											
ANKLE RIGHT	30.3	30.3	118.8	78.5	30.3	197.5	117.8	205.9	30.3	100.0	
ANKLE LEFT	30.3	30.3	105.8	92.8	30.3	89.3	186.7	180.4	30.3	30.3	
CHEST	90.5	90.5	90.5	258.2	291.1	90.5	186.8	301.6	90.5	90.5	
BACK	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	
SHOULDER RIGHT	241.7	241.7	403.8	521.0	442.3	467.8	605.8	788.5	241.7	311.4	
UPPER ARM RIGHT	30.5	30.5	51.0	65.7	58.2	59.0	78.5	100.5	30.7	38.4	
FOREARM RIGHT	0.11	0.10	0.18	0.28	0.20	0.18	0.32	0.38	0.08	0.13	
THIGH RIGHT	84.30	81.87	218.13	124.88	135.83	98.54	170.49	188.27	174.00	48.48	
HEAD	2.28	0.83	1.27	0.85	0.54	1.31	1.28	0.95	1.08	0.54	
INHALATION											
INTERVAL	MINUTES	478	469	475	476	472	478	475	471	475	474
HARVEST	POUNDS	2135	2488	2142	2257	2177	2514	1902	2073	2508	2428
	LBS/HOUR	289	318	271	284	277	317	240	284	328	307

- NOTES:
- * ALL RESIDUE LEVELS (i.e., ug/dosimeter-gloves or inhalation monitors and ug/cm²-patches) EXCEPTED DIRECTLY FROM STUDY REPORT. RAW DATA (e.g., chromatogram/dilution) NOT AVAILABLE TO VERIFY EACH CALCULATION.
 - * "STD. VALUES" REPRESENTS STANDARD BODY SURFACE AREAS (cm²) FROM WHICH TOTAL DERMAL EXPOSURE LEVELS ARE CALCULATED. FOR THE INHALATION DATA, THESE VALUES REPRESENT AIR FLOW OR THE DOSIMETER TYPE.
 - * RAW DATA INCLUDED IN THAT SECTION OF THE TABLE ARE PRESENTED AS (ug chlorothalonil/sample-gloves, filters or adsorbent tubes) AND AS (ug/cm²-dermal patches).
 - * RESIDUE DATA WERE NOT CORRECTED FOR ANY TYPE OF QUALITY CONTROL RESULTS AS THE MEANS FOR ALL AVAILABLE RECOVERY DATA WERE > 90%.
 - * HAND EXPOSURE LEVELS WERE NOT ADJUSTED/CALCULATED FOR ANY FACTOR. CUMULATIVE VALUES ARE INCLUDED IN THIS TABLE WHICH REPRESENT THE SEVERAL VALUES FOR EACH EXPOSURE REPLICATE THAT WERE REPORTED IN THE RAW DATA.
 - * EXPOSURE LEVELS BASED ON DERMAL PATCH DATA WERE CALCULATED USING THE FOLLOWING EQUATION:
EXPOSURE PER BODY PART (ug) = [RESIDUE LEVEL (ug/cm²) * STANDARD BODY SURFACE (cm²)]
 - * RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WERE AVERAGED TOGETHER AND THE MEANS WERE USED IN THE CALCULATION USING A SURFACE AREA OF 489 cm² FOR THE LEFT OR RIGHT SIDE OF THE BODY.
 - * ONE-HALF OF THE QUANTIFICATION LIMIT USED IN ALL CALCULATIONS WHERE NO DETECTABLE CHLOROTHALONIL RESIDUES WERE IDENTIFIED IN THE SAMPLE.
 - * INHALATION EXPOSURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION:
INHALATION EXPOSURE (ug) = [RESIDUE LEVEL (ug) * TYPICAL HUMAN INHALATION RATE (29 Lpm)]/[PERSONAL SAMPLING PUMP FLOW RATE (Lpm)]
 - * EXPOSURE LEVELS NORMALIZED AS (ug/LB) ARE BASED ON THE AMOUNT OF TOMATOES PICKED DURING EACH EXPOSURE INTERVAL

PPA SUPPORT TASK 1627.6
 VERBA, INC. 8/31/93 JLD
 REVIEW OF CHLOROTHALOMIL FOLAR DISPOSABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION
 PAI (DAYS): 7
 DERMAL PATCH AREA (cm²): 68.15
 INHALATION RATE (L/min): 29

QUANTIFICATION LIMITS		
MATRIX	VALUE	UNITS
COTTON GLOVES	20.0	ug
GAUZE PATCHES	0.051	ug/cm ²
CELLULOSE FILTERS	0.080	ug
CHROMOSORB TUBES	0.080	ug

DOSIMETER LOCATION		STD. VALUES	RAW DATA									
			1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES												
HANDS												
		820	2708.10	2196.38	2021.63	240092	276806	253343	219482	223528	281982	290810
	ANKLE RIGHT	1190	0.459	0.430	0.537	0.738	2.038	0.270	1.074	0.518	2.360	1.278
	ANKLE LEFT	1190	0.304	0.158	0.556	0.381	0.242	0.170	0.211	0.348	0.284	0.204
	CHEST	3550	0.139	0.114	0.276	0.346	0.346	0.273	0.216	0.268	0.154	0.243
	BACK	3550	0.114	0.072	0.143	0.140	0.582	0.063	0.105	0.134	0.122	0.140
	SHOULDER RIGHT	1455	0.270	0.089	0.603	0.235	0.228	0.120	0.191	0.287	0.282	0.182
	UPPERARM RIGHT	1455	3.563	0.386	2.272	0.764	0.896	0.564	4.926	3.313	2.478	0.438
	FOREARM RIGHT	805	1.428	0.867	1.259	0.468	0.551	0.685	1.280	0.888	0.868	0.372
	THIGH RIGHT	1910	19.070	2.419	2.844	2.785	2.712	3.475	2.844	13.600	1.524	2.170
	SHOULDER LEFT	1455	0.131	0.170	1.013	0.182	0.139	0.123	0.113	0.178	0.271	0.196
	UPPERARM LEFT	1455	0.639	0.518	1.598	0.637	0.867	0.886	2.300	2.463	0.838	0.459
	FOREARM LEFT	805	0.443	0.274	0.600	0.384	0.462	0.180	0.708	0.508	0.428	0.642
	THIGH LEFT	1910	8.906	3.812	11.820	4.222	3.263	3.836	1.812	4.888	2.038	1.850
	HEAD	1300	0.840	ND	0.105	0.823	ND	ND	0.847	0.082	0.078	0.140
INSIDE DEVICES												
	ANKLE RIGHT	1190	ND	ND	ND	0.738	ND	0.055	0.052	0.082	ND	ND
	ANKLE LEFT	1190	ND	ND	ND	0.391	ND	ND	0.071	ND	ND	ND
	CHEST	3550	ND	0.050	ND	0.087	ND	ND	ND	0.099	ND	ND
	BACK	3550	ND	ND	ND	0.073	ND	ND	ND	ND	ND	ND
INHALATION												
	FLOW RATE	LPM	1.55	1.83	1.80	1.59	1.56	1.56	1.56	1.56	1.56	1.61
	FILTER	TOTAL	6.540	3.920	9.160	6.130	8.970	3.720	6.360	7.500	7.770	3.630
	TUBE	FRONTS	0.070	ND	0.090	ND	0.390	0.120	0.130	ND	0.090	ND
GENERIC DATA												
	INTERVAL	MINUTES	465	485	483	488	485	482	463	463	462	483
	HARVEST	POUNDS	2207	2286	2073	2245	2278	2198	2051	2142	2427	2425
	LBS/HOUR	POUNDS	285	285	286	289	284	278	286	278	315	314

EXPOSURE TYPE	CALCULATED EXPOSURE LEVELS									
	1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES										
HANDS	2708.10	2196.38	2021.63	2400.92	276806	253343	219482	223528	281982	290810
ANKLE RIGHT	548.2	511.7	639.0	878.2	2425.2	321.3	1278.1	816.4	2008.4	1920.8
ANKLE LEFT	361.8	188.0	681.6	463.3	288.0	202.3	251.1	415.3	302.3	242.8
CHEST	483.5	404.7	978.8	1228.3	1235.4	988.2	768.8	851.4	548.7	982.7
BACK	404.7	258.6	507.7	487.0	2101.8	223.7	372.8	475.7	433.1	497.0
SHOULDER RIGHT	2788.5	347.7	2091.6	728.8	670.8	512.2	372.8	2819.0	2007.9	458.3
UPPERARM RIGHT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS									
FOREARM RIGHT	862.7	524.5	781.7	281.8	333.4	414.4	762.3	421.1	902.8	228.1
THIGH RIGHT	36422.7	4820.3	5432.0	5378.4	5179.9	6837.3	5432.0	25878.0	2910.8	4144.7
SHOULDER LEFT	580.2	489.1	1899.5	610.4	586.4	585.5	1820.8	1919.9	659.8	478.5
UPPERARM LEFT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS									
FOREARM LEFT	288.0	165.8	383.0	238.4	279.5	96.8	428.3	306.1	258.9	308.4
THIGH LEFT	13180.5	7280.9	22194.2	8064.8	5907.8	8944.8	3078.9	9297.9	3892.8	3724.5
HEAD	1092.0	33.2	136.5	608.9	33.2	33.2	1231.1	80.6	101.4	182.0
EXP (ug)	32780.2	23148.0	23768.0	28621.2	28848.7	28228.0	23680.7	28680.0	28680.7	27353.3
EXP (ug/hour)	42287	29887	30825	34147	38581	32784	30821	34560	38507	35447
EXP (ug/LB)	148.53	101.28	114.74	118.13	131.18	118.00	118.34	124.47	122.17	112.80
INSIDE DEVICES										
ANKLE RIGHT	30.3	30.3	30.3	879.2	30.3	85.5	61.8	87.8	30.3	30.3
ANKLE LEFT	30.3	30.3	30.3	463.3	30.3	30.3	84.5	30.3	30.3	30.3
CHEST	90.5	177.5	90.5	344.4	90.5	90.5	90.5	90.5	90.5	90.5
BACK	90.5	90.5	90.5	250.2	90.5	90.5	90.5	90.5	90.5	90.5
EXP (ug)	241.7	328.7	241.7	1847.0	241.7	278.8	327.4	589.8	241.7	241.7
EXP (ug/hour)	31.2	42.4	31.3	250.7	31.2	36.0	42.4	73.9	31.4	31.3
EXP (ug/LB)	0.11	0.14	0.12	0.87	0.11	0.13	0.16	0.27	0.10	0.10
INHALATION										
FILTERS	122.38	98.74	108.39	148.28	183.80	99.15	171.80	136.76	141.72	83.40
TUBES	1.31	0.83	1.83	0.86	8.83	2.23	2.38	0.55	1.48	0.54
EXP (ug)	123.67	70.28	108.02	148.83	170.53	71.38	174.18	137.34	143.16	83.94
EXP (ug/hour)	15.96	9.07	21.77	18.18	22.00	9.27	22.57	17.80	18.58	8.28
EXP (ug/LB)	0.08	0.03	0.06	0.07	0.07	0.03	0.08	0.06	0.08	0.03

NOTES:
 * ALL RESIDUE LEVELS (i.e., ug/dosimeter-gloves or inhalation monitors and ug/cm²-patches) EXCEPTED DIRECTLY FROM STUDY REPORT. RAW DATA (i.e., chromatograms/dilutions) NOT AVAILABLE TO VERIFY EACH CALCULATION.
 * "STD. VALUES" REPRESENTS STANDARD BODY SURFACE AREAS (cm²) FROM WHICH TOTAL DERMAL EXPOSURE LEVELS ARE CALCULATED. FOR THE INHALATION DATA, THESE VALUES REPRESENT AIR FLOW OR THE DOSIMETER TYPE.
 * FOR THE GENERIC DATA, THESE DESCRIPTORS ARE THE APPROPRIATE UNITS.
 * RAW DATA INCLUDED IN THAT SECTION OF THE TABLE ARE PRESENTED AS (ug chlorothalonil/sample-gloves, filters or adsorbent tubes) AND AS (ug/cm²-dermal patches).
 * RESIDUE DATA WERE NOT CORRECTED FOR ANY TYPE OF QUALITY CONTROL RESULTS AS THE MEANS FOR ALL AVAILABLE RECOVERY DATA WERE $\geq 80\%$.
 * HAND EXPOSURE LEVELS WERE NOT ADJUSTED/CALCULATED FOR ANY FACTOR. CUMULATIVE VALUES ARE INCLUDED IN THIS TABLE WHICH REPRESENT THE SEVERAL VALUES FOR EACH EXPOSURE REPLICATE THAT WERE REPORTED IN THE RAW DATA.
 * EXPOSURE LEVELS BASED ON DERMAL PATCH DATA WERE CALCULATED USING THE FOLLOWING EQUATION:

$$\text{EXPOSURE PER BODY PART (ug)} = (\text{RESIDUE LEVEL (ug/cm}^2\text{)} \times \text{STANDARD BODY SURFACE (cm}^2\text{)})$$

 * RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WERE AVERAGED TOGETHER AND THE MEANS WERE USED IN THE CALCULATION USING A SURFACE AREA OF 1455 cm² FOR THE LEFT OR RIGHT SIDE OF THE BODY.
 * ONE-HALF OF THE QUANTIFICATION LIMIT USED IN ALL CALCULATIONS WHERE NO DETECTABLE CHLOROTHALOMIL RESIDUES WERE IDENTIFIED IN THE SAMPLE.
 * INHALATION EXPOSURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION:

$$\text{INHALATION EXPOSURE (ug)} = (\text{RESIDUE LEVEL (ug)} \times \text{TYPICAL HUMAN INHALATION RATE (20 Lpm)}) / (\text{PERSONAL SAMPLING PUMP FLOW RATE (Lpm)})$$

 * EXPOSURE LEVELS NORMALIZED AS (ug/LB) ARE BASED ON THE AMOUNT OF TOMATOES PICKED DURING EACH EXPOSURE INTERVAL.

HAND Exposure Rates For Chlorothalnil 2 110.003

day 0

	1	2	3	4	5	6	7	8	9	10
ug/hour	31411.1	27739.78	35113.98	29051.6	39763.37	47124.23	42856.65	43194.77	54744.83	38569.24
ug/lb	143.1126	103.202	138.8689	90.45	162.6351	135.0629	149.4471	163.4196	168.178	131.5773

day 1 HAN Exposure Rates For chlorothalnil 2110.003

	1	2	3	4	5	6	7	8	9	10
ug/hour	43707.4	39247.39	33581.82	30059.36	41448.81	36095.59	38108.77	37343.77	69855.15	44634.85
ug/lb	145.3226	102.0848	104.1707	81.06514	123.043	89.54652	114.6421	102.5021	145.3992	105.8175

HAND EXPOSURE RATES For chlorophenil 2110.003

day 3

	1	2	3	4	5	6	7	8	9	10
ug/hour	37698.78	27259.57	28247.24	24860.67	30329.87	28556.6	29187.41	24895.54	35087.95	26788.1
ug/lb	140.0829	85.71158	104.3996	87.38502	109.5981	90.11496	121.4863	94.274	106.9644	87.37655

Hand Exposure Rates for Chloroethanol 2/10.003

day 7

	1	2	3	4	5	6	7	8	9	10
ug/hour	34943.23	27953.29	26200.82	31685.67	36104	30564.03	28440	28967.04	36621.04	33798.27
ug/lb	122.705	94.76728	97.5316	109.6178	122.8297	110.0762	107.0024	104.3553	116.1854	107.5505

ATTACHMENT C

TRANSFER COEFFICIENT & REGRESSION CALCULATIONS

REVIEW OF CHLOROTHALONIL FOLIAR DISLodgeABLE RESIDUE/EXPOSURE STUDY
CALCULATION OF TRANSFER COEFFICIENTS FOR FDR AND TOMATO RESIDUE DATA

TOMATO PICKING RATE (lb/hour): 307

STUDY DAY		RESIDUE DISSIPATION DATA			
		FDR DATA		TOMATO DATA	
		(ug/cm ²)	In (ug/cm ²)	(ppm)	In (ppm)
0		4.300	1.4596	0.630	-0.4820
1		3.830	1.3429	0.570	-0.5921
3		3.750	1.3218	0.490	-0.7765
7		3.040	1.1119	0.470	-0.7550

STUDY DAY		TRANSFER COEFFICIENT CALCULATION			
		FDR DISSIPATION		WHOLE TOMATO RESIDUES	
		(cm ² /hour)	DESCRIPTION	(cm ² /hour)	DESCRIPTION (lb picked/hr)
0	TOTAL OUTSIDE	9833	TOTAL INSIDE	9077	TOTAL OUTSIDE
1		12211		10832	136.48
3		8984		7830	160.32
7		11449		10396	140.80
MEAN		10844		9534	148.11
					148.37

STUDY DAY		EXPOSURE DATA			
		EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE LEVELS	EXPOSURE FACTOR
0	TOTAL OUTSIDE	42712	(ug/hour)	39032	(ug/hour)
1		45770	(ug/hour)	41487	(ug/hour)
3		33689	(ug/hour)	28392	(ug/hour)
7		34805	(ug/hour)	31804	(ug/hour)
MEAN		39494	(ug/hour)	35371	(ug/hour)

STUDY DAY		EXPOSURE VALUES NORMALIZED BY POUNDS PICKED			
		EXPOSURE (ug/lb picked)	EXPOSURE (ug/lb picked)	EXPOSURE (ug/lb picked)	EXPOSURE (ug/lb picked)
0	TOTAL OUTSIDE	152.50	(ug/lb picked)	130.96	(ug/lb picked)
1		126.48	(ug/lb picked)	111.58	(ug/lb picked)
3		119.53	(ug/lb picked)	102.99	(ug/lb picked)
7		120.82	(ug/lb picked)	106.53	(ug/lb picked)
MEAN		129.58	(ug/lb picked)	115.74	(ug/lb picked)

STUDY DAY		EXPOSURE VALUES NORMALIZED BY POUNDS PICKED			
		EXPOSURE (ug/lb picked)	EXPOSURE (ug/lb picked)	EXPOSURE (ug/lb picked)	EXPOSURE (ug/lb picked)
0	TOTAL OUTSIDE	10868	TOTAL INSIDE	9914	TOTAL OUTSIDE
1		10138		8944	148.05
3		9704		8432	132.37
7		12201		11081	151.40
MEAN		10733		9598	157.59
					147.60

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- TRANSFER COEFFICIENTS CALCULATED USING THE FOLLOWING EQUATIONS:
 FDR (NORMALIZATION BY HOURS WORKED): EXPOSURE (ug/hour)/FDR LEVEL (ug/cm²)
 FDR (NORMALIZATION BY LBS TOMATOES PICKED): [EXPOSURE (ug/lb picked) * TOMATO PICKING RATE (lb/hour)]/FDR LEVEL (ug/cm²)
 WHOLE TOMATOES (NORMALIZATION BY HOURS WORKED): [EXPOSURE (ug/hour)/TOMATO RESIDUE (ppm)]/(1lb/454g)
 WHOLE TOMATOES (NORMALIZATION BY POUNDS TOMATOES PICKED): [(EXPOSURE (ug/lb) * TOMATO PICKING RATE (lb/hour))/TOMATO RESIDUE (ppm)] * (1lb/454g)]

STUDY INTERVAL	PREDICTED RESIDUES FOR TOMATO (ppm)	PREDICTED EXPOSURE (4 HOURS) WORKERS				PREDICTED EXPOSURE (8 HOURS) WORKERS				TRANSFER COEFF EXP. FOR WHOLE TOMATOES				TRANSFER COEFF EXP. FOR WHOLE TOMATOES				DIFFERENCES BETWEEN EXPOSURE CALCULATION TECHNIQUES (NPH method & present method)			
		FOR (μg/kg)	OUTSIDE (μg/kg)	WHOLE TOMATOES (μg/kg)	WHOLE TOMATOES (μg/kg)	FOR (μg/kg)	OUTSIDE (μg/kg)	WHOLE TOMATOES (μg/kg)	WHOLE TOMATOES (μg/kg)	FOR (μg/kg)	OUTSIDE (μg/kg)	WHOLE TOMATOES (μg/kg)	WHOLE TOMATOES (μg/kg)	FOR (μg/kg)	OUTSIDE (μg/kg)	WHOLE TOMATOES (μg/kg)	WHOLE TOMATOES (μg/kg)	FOR (μg/kg)	OUTSIDE (μg/kg)	WHOLE TOMATOES (μg/kg)	WHOLE TOMATOES (μg/kg)
0	4.184	0.386	42.941	32.078	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378	13.378
1	4.008	0.364	41.688	31.718	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248	13.248
2	3.820	0.343	40.433	31.358	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118	13.118
3	3.632	0.322	39.178	30.998	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988	12.988
4	3.444	0.301	37.923	30.638	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858	12.858
5	3.256	0.280	36.668	30.278	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728	12.728
6	3.068	0.259	35.413	29.918	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598	12.598
7	2.880	0.238	34.158	29.558	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468	12.468
8	2.692	0.217	32.903	29.198	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338	12.338
9	2.504	0.196	31.648	28.838	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208	12.208
10	2.316	0.175	30.393	28.478	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078	12.078
11	2.128	0.154	29.138	28.118	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948	11.948
12	1.940	0.133	27.883	27.758	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818	11.818
13	1.752	0.112	26.628	27.398	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688	11.688
14	1.564	0.091	25.373	27.038	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558	11.558
15	1.376	0.070	24.118	26.678	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428	11.428
16	1.188	0.049	22.863	26.318	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298	11.298
17	1.000	0.028	21.608	25.958	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168	11.168
18	0.812	0.007	20.353	25.598	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038	11.038
19	0.624	0.000	19.098	25.238	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908	10.908
20	0.436	0.000	17.843	24.878	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778	10.778
21	0.248	0.000	16.588	24.518	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648	10.648
22	0.060	0.000	15.333	24.158	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518	10.518
23	0.000	0.000	14.078	23.798	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388	10.388
24	0.000	0.000	12.823	23.438	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258	10.258
25	0.000	0.000	11.568	23.078	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128	10.128
26	0.000	0.000	10.313	22.718	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000
27	0.000	0.000	9.058	22.358	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870	9.870
28	0.000	0.000	7.803	21.998	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740	9.740
29	0.000	0.000	6.548	21.638	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610	9.610
30	0.000	0.000	5.293	21.278	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480	9.480
31	0.000	0.000	4.038	20.918	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350	9.350
32	0.000	0.000	2.783	20.558	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220	9.220
33	0.000	0.000	1.528	20.198	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090	9.090
34	0.000	0.000	0.273	19.838	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960	8.960
35	0.000	0.000	0.000	19.478	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830	8.830

NOTES: PREDICTED EXPOSURE LEVELS CALCULATED USING THE EQUATIONS WHICH RELATED EXPOSURE LEVELS TO REMOVAL LEVELS. THE EQUATIONS ARE PRESENTED BELOW:

$$\begin{aligned} \text{TOTAL OUTSIDE EXPOSURE (μg/kg)} &= (22727.8 \cdot (L \cdot \text{FOR} \cdot \text{WHOLE TOMATOES})) + 4019.6 \\ \text{TOTAL INSIDE EXPOSURE (μg/kg)} &= (22713.0 \cdot (L \cdot \text{FOR} \cdot \text{WHOLE TOMATOES})) + 5048.36 \\ \text{TOTAL INSIDE EXPOSURE (μg/kg)} &= (70.40 \cdot (L \cdot \text{FOR} \cdot \text{WHOLE TOMATOES})) + 36.09 \\ \text{TOTAL INSIDE EXPOSURE (μg/kg)} &= (70.01 \cdot (L \cdot \text{FOR} \cdot \text{WHOLE TOMATOES})) + 24.11 \end{aligned}$$

THE TECHNIQUES USED TO CALCULATE EXPOSURE LEVELS WITH THE TRANSFER COEFFICIENTS THAT RELATED EXPOSURE LEVELS TO REMOVAL LEVELS ARE DESCRIBED IN THE EQUATIONS PRESENTED BELOW (TRANSFER COEFFICIENT VALUES DENOTED AS "TC" IN EACH EQUATION):

$$\begin{aligned} \text{TOTAL OUTSIDE EXPOSURE (μg/kg)} &= (\text{PREVIOUS LEVEL (μg/kg)} \cdot 0.04 \cdot \text{TC}) + (\text{TC} \cdot 18.18 \cdot \text{μg/kg/hour}) \\ \text{TOTAL INSIDE EXPOSURE (μg/kg)} &= (\text{PREVIOUS LEVEL (μg/kg)} \cdot 0.04 \cdot \text{TC}) + (\text{TC} \cdot 18.18 \cdot \text{μg/kg/hour}) \\ \text{TOTAL OUTSIDE EXPOSURE (μg/kg)} &= (\text{PREVIOUS LEVEL (μg/kg)} \cdot 0.04 \cdot \text{TC}) + (\text{TC} \cdot 18.18 \cdot \text{μg/kg/hour}) \\ \text{TOTAL INSIDE EXPOSURE (μg/kg)} &= (\text{PREVIOUS LEVEL (μg/kg)} \cdot 0.04 \cdot \text{TC}) + (\text{TC} \cdot 18.18 \cdot \text{μg/kg/hour}) \end{aligned}$$

PPA SUPPORT TASK: 2110.003

VERSAR, INC. 9/10/93 JLD

REVIEW OF CHLOROTHALONIL FOLIAR DISLodgeABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

CORRELATION ANALYSIS/LINEAR EQUATION DEVELOPMENT (EXPOSURE vs. Ln RESIDUE DATA)

(NOTE: EXPOSURE LEVELS USED IN THIS ANALYSIS WERE NORMALIZED BY THE HOURS WORKED)

STUDY DAY	EXPOSURE LEVELS		RESIDUE LEVELS		Ln [RESIDUE LEVELS]	
	TOTAL OUTSIDE (ug/hour)	TOTAL INSIDE (ug/hour)	FDR (ug/cm2)	TOMATOES (ppm)	FDR (ug/cm2)	TOMATOES (ppm)
0.00	42712	39032	4.300	0.630	1.4586	-0.4620
1.00	46770	41487	3.830	0.570	1.3429	-0.5621
3.00	33689	29362	3.750	0.460	1.3218	-0.7765
7.00	34805	31604	3.040	0.470	1.1119	-0.7550
TOTAL OUTSIDE			TOTAL INSIDE			
FDR LEVELS						
Regression Output:			Regression Output:			
Constant	6476.83634972		Constant	5646.37927316		
Std Err of Y Est	6291.49928241		Std Err of Y Est	5866.70812314		
R Squared	0.33463078092		R Squared	0.31916978226		
No. of Observations	4		No. of Observations	4		
Degrees of Freedom	2		Degrees of Freedom	2		
Correlation Coefficient	0.5764728005		Correlation Coefficient	0.56495113263		
X Coefficient(s)	25227.565		X Coefficient(s)	22712.009		
Std Err of Coef.	25154.098		Std Err of Coef.	23455.737		
WHOLE TOMATO LEVELS						
Regression Output:			Regression Output:			
Constant	62179.1303099		Constant	57232.9315607		
Std Err of Y Est	3952.137092		Std Err of Y Est	3132.03965328		
R Squared	0.73744614146		R Squared	0.80595414836		
No. of Observations	4		No. of Observations	4		
Degrees of Freedom	2		Degrees of Freedom	2		
Correlation Coefficient	0.85874684364		Correlation Coefficient	0.89774949087		
X Coefficient(s)	35505.074		X Coefficient(s)	34216.273212		
Std Err of Coef.	14980.264		Std Err of Coef.	11871.749414		
LINEAR EQUATIONS BASED ON SEMILOG ANALYSIS OF DISSIPATION/EXPOSURE DATA						
FDR LEVELS:						CORR COEFF.
TOTAL OUTSIDE EXPOSURE (ug/hour) = ((25227.6 * (Ln FDR(ug/cm2)))) + 6476.84)						0.5785
TOTAL INSIDE EXPOSURE (ug/hour) = ((22712.0 * (Ln FDR(ug/cm2)))) + 5646.38)						0.5650
WHOLE TOMATOES:						
TOTAL OUTSIDE EXPOSURE (ug/hour) = ((35505.0 * (Ln WHOLE TOMATO (ppm)))) + 62179.1)						0.8587
TOTAL INSIDE EXPOSURE (ug/hour) = ((34216.3 * (Ln WHOLE TOMATO (ppm)))) + 57232.9)						0.8977

NOTES:

* ALL VALUES USED FOR CALCULATIONS ARE AVERAGES OF REPLICATE SAMPLE ANALYSES AT EACH INTERVAL

* RESIDUE LEVELS NOT CORRECTED FOR AVAILABLE QC RESULTS AS ALL AVERAGE RECOVERIES WERE >= 90%.

PPA SUPPORT TASK: 2110.003

VERSAR, INC. 9/10/93 JLD

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

CORRELATION ANALYSIS/LINEAR EQUATION DEVELOPMENT (EXPOSURE vs. Ln RESIDUE DATA)

(NOTE: EXPOSURE LEVELS USED IN THIS ANALYSIS WERE NORMALIZED BY THE POUNDS PICKED DURING EACH REPLICATE)

STUDY DAY	EXPOSURE LEVELS		RESIDUE LEVELS		Ln [RESIDUE LEVELS]	
	TOTAL OUTSIDE (ug/lb picked)	TOTAL INSIDE (ug/lb picked)	FDR (ug/cm2)	TOMATOES (ppm)	FDR (ug/cm2)	TOMATOES (ppm)
0.00	152.50	138.86	4.300	0.630	1.4586	-0.4620
1.00	126.48	111.58	3.830	0.570	1.3429	-0.5621
3.00	118.53	102.99	3.750	0.460	1.3218	-0.7765
7.00	120.82	109.53	3.040	0.470	1.1119	-0.7550
TOTAL OUTSIDE			TOTAL INSIDE			
FDR LEVELS						
Regression Output:			Regression Output:			
Constant	26.8580024983		Constant	24.1112361785		
Std Err of Y Est	13.1980676054		Std Err of Y Est	14.9386889807		
R Squared	0.5252260062		R Squared	0.40723950183		
No. of Observations	4		No. of Observations	4		
Degrees of Freedom	2		Degrees of Freedom	2		
Correlation Coefficient	0.72472477962		Correlation Coefficient	0.63815319621		
X Coefficient(s)	78.489145		X Coefficient(s)	70.011		
Std Err of Coef.	52.76731		Std Err of Coef.	59.727		
WHOLE TOMATO LEVELS						
Regression Output:			Regression Output:			
Constant	187.907622052		Constant	173.072261483		
Std Err of Y Est	8.76834012657		Std Err of Y Est	9.81163728644		
R Squared	0.79044357187		R Squared	0.74429615794		
No. of Observations	4		No. of Observations	4		
Degrees of Freedom	2		Degrees of Freedom	2		
Correlation Coefficient	0.88906893538		Correlation Coefficient	0.86272600398		
X Coefficient(s)	91.28613		X Coefficient(s)	89.7321789864		
Std Err of Coef.	33.235702		Std Err of Coef.	37.190237713		
LINEAR EQUATIONS BASED ON SEMILOG ANALYSIS OF DISSIPATION/EXPOSURE DATA						CORR COEFF.
FDR LEVELS:						
TOTAL OUTSIDE EXPOSURE (ug/lb picked) = ((78.49 * (Ln FDR(ug/cm2)))) + 26.85)						0.7247
TOTAL INSIDE EXPOSURE (ug/lb picked) = ((70.01 * (Ln FDR(ug/cm2)))) + 24.11)						0.6382
WHOLE TOMATOES:						
TOTAL OUTSIDE EXPOSURE (ug/lb picked) = ((91.29 * (Ln WHOLE TOMATO (ppm)))) + 187.91)						0.8891
TOTAL INSIDE EXPOSURE (ug/lb picked) = ((89.73 * (Ln WHOLE TOMATO (ppm)))) + 173.01)						0.8627

NOTES:

* ALL VALUES USED FOR CALCULATIONS ARE AVERAGES OF REPLICATE SAMPLE ANALYSES AT EACH INTERVAL.

* RESIDUE LEVELS NOT CORRECTED FOR AVAILABLE QC RESULTS AS ALL AVERAGE RECOVERIES WERE >= 90%.

ATTACHMENT D

LADEs/RISKS
FOR ACTUAL EXPOSURES

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

PPA SUPPORT TASK:2110.003																				
VERSAR,INC. 9/9/93 JLD																				
REVIEW OF CHLOROTHALONIL FOLIAR DISOLGEABLE RESIDUE/EXPOSURE STUDY																				
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA																				
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)				RISK ANALYSIS				TOXICOLOGICAL PARAMETERS							
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	CHLOROTHALONIL Q1* (mg/kg/day)-1	AVERAGE WEIGHT	DERMAL ABS. FACT. #1 (%)	DERMAL ABS. FACT. #2 (%)
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																				
TOTAL OUTSIDE	0	42712	(ug/hour)	341.70	2.0061	4.0121	6.0182	8.0243	3.152E-04	6.305E-04	9.457E-04	1.261E-03	1.578E-04	3.152E-04	4.73E-04	6.30E-04	0.011	70		
	1	49770	(ug/hour)	374.16	2.1866	4.3933	6.5899	8.7865	3.452E-04	6.904E-04	1.039E-03	1.361E-03	1.728E-04	3.452E-04	5.18E-04	6.90E-04				
	3	33689	(ug/hour)	269.51	1.5823	3.1845	4.7468	6.3291	2.486E-04	4.973E-04	7.459E-04	9.949E-04	1.243E-04	2.486E-04	3.73E-04	4.97E-04		100		
	7	34805	(ug/hour)	278.44	1.6347	3.2693	4.9040	6.5397	2.589E-04	5.138E-04	7.708E-04	1.028E-03	1.284E-04	2.589E-04	3.85E-04	5.14E-04		50		
TOTAL INSIDE					0	39032	(ug/hour)	312.25	1.8332	3.6664	5.4996	7.3328	2.881E-04	5.761E-04	8.642E-04	1.152E-03	1.440E-04	2.881E-04	5.76E-04	
	1	41487	(ug/hour)	331.90	1.9485	3.8970	5.8455	7.7941	3.062E-04	6.124E-04	9.186E-04	1.225E-03	1.531E-04	3.062E-04	4.59E-04	6.12E-04				
	3	29362	(ug/hour)	234.80	1.3790	2.7581	4.1371	5.5181	2.167E-04	4.334E-04	6.501E-04	8.669E-04	1.064E-04	2.167E-04	3.25E-04	4.33E-04				
	7	31604	(ug/hour)	252.83	1.4844	2.9687	4.4531	5.9374	2.333E-04	4.665E-04	6.998E-04	9.330E-04	1.166E-04	2.333E-04	3.50E-04	4.67E-04				
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																				
TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	2.1988	4.3977	6.5965	8.7954	3.455E-04	6.911E-04	1.037E-03	1.382E-03	1.728E-04	3.455E-04	5.18E-04	6.91E-04	0.011	70		
	1	126.48	(ug/lb picked)	310.84	1.8237	3.6474	5.4711	7.2948	2.886E-04	5.732E-04	8.597E-04	1.146E-03	1.433E-04	2.886E-04	4.30E-04	5.73E-04				
	3	118.53	(ug/lb picked)	291.12	1.7091	3.4182	5.1274	6.8385	2.688E-04	5.372E-04	8.057E-04	1.074E-03	1.343E-04	2.688E-04	4.03E-04	5.37E-04		100		
	7	120.82	(ug/lb picked)	296.73	1.7421	3.4841	5.2282	6.9683	2.738E-04	5.475E-04	8.213E-04	1.068E-03	1.369E-04	2.738E-04	4.11E-04	5.48E-04		50		
TOTAL INSIDE					0	138.86	(ug/lb picked)	341.04	2.0022	4.0044	6.0066	8.0088	3.146E-04	6.293E-04	9.439E-04	1.259E-03	1.573E-04	3.146E-04	6.29E-04	
	1	111.58	(ug/lb picked)	274.03	1.6066	3.2176	4.8284	6.4352	2.528E-04	5.056E-04	7.584E-04	1.011E-03	1.264E-04	2.528E-04	3.79E-04	5.06E-04				
	3	102.99	(ug/lb picked)	252.95	1.4850	2.9701	4.4551	5.9401	2.334E-04	4.667E-04	7.001E-04	9.334E-04	1.167E-04	2.334E-04	3.50E-04	4.67E-04				
	7	109.53	(ug/lb picked)	269.01	1.5763	3.1586	4.7379	6.3172	2.482E-04	4.967E-04	7.445E-04	9.927E-04	1.241E-04	2.482E-04	3.72E-04	4.96E-04				

NOTES:

- (ug/hr) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- EXPOSURE (mg/day) = EXPOSURE (mg/hr) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hr) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

REVIEW OF CHLOROTHALONIL FOLIAR DISLUDGEABLE RESIDUE/EXPOSURE STUDY LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA																		
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS			
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2			
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																		
TOTAL OUTSIDE	0	42712	(ug/hour)	341.70	4,0121	8,0243	12,0364	16,0485	6,305E-04	1,261E-03	1,891E-03	2,522E-03	3,152E-04	6,305E-04	9,48E-04	1,26E-03	1,58E-03	0.011
	1	46770	(ug/hour)	374.16	4,3933	8,7865	13,1798	17,5730	6,904E-04	1,381E-03	2,071E-03	2,761E-03	3,452E-04	6,904E-04	1,04E-03	1,38E-03	1,70E-03	70
	3	33689	(ug/hour)	269.51	3,1645	6,3291	9,4936	12,6582	4,973E-04	9,946E-04	1,492E-03	1,989E-03	2,486E-04	4,973E-04	7,46E-04	9,95E-04	1,26E-03	100
	7	34805	(ug/hour)	278.44	3,2683	6,5367	9,8060	13,0774	5,138E-04	1,028E-03	1,541E-03	2,055E-03	2,569E-04	5,138E-04	7,71E-04	1,03E-03	1,26E-03	50
TOTAL INSIDE																		
	0	39032	(ug/hour)	312.25	3,6664	7,3328	10,9991	14,6655	5,761E-04	1,152E-03	1,728E-03	2,305E-03	2,881E-04	5,761E-04	8,64E-04	1,15E-03	1,43E-03	
	1	41487	(ug/hour)	331.90	3,6670	7,3341	11,0011	15,0061	6,124E-04	1,225E-03	1,837E-03	2,450E-03	3,062E-04	6,124E-04	9,19E-04	1,22E-03	1,50E-03	
	3	29362	(ug/hour)	234.90	2,7581	5,5161	8,2742	11,0323	4,334E-04	8,668E-04	1,300E-03	1,734E-03	2,167E-04	4,334E-04	6,50E-04	8,67E-04	1,07E-03	
	7	31604	(ug/hour)	252.83	2,6687	5,9374	8,9061	11,8748	4,665E-04	9,330E-04	1,400E-03	1,866E-03	2,333E-04	4,665E-04	7,00E-04	9,33E-04	1,10E-03	
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																		
TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	4,3977	8,7954	13,1831	17,5908	6,911E-04	1,382E-03	2,073E-03	2,764E-03	3,455E-04	6,911E-04	1,04E-03	1,38E-03	1,70E-03	
	1	126.48	(ug/lb picked)	310.64	3,6474	7,2948	10,9422	14,5966	5,732E-04	1,146E-03	1,719E-03	2,293E-03	2,866E-04	5,732E-04	8,60E-04	1,15E-03	1,43E-03	
	3	116.53	(ug/lb picked)	281.12	3,4162	6,8365	10,2547	13,6730	5,372E-04	1,074E-03	1,611E-03	2,149E-03	2,666E-04	5,372E-04	8,06E-04	1,07E-03	1,35E-03	
	7	120.82	(ug/lb picked)	286.73	3,4841	6,9683	10,4524	13,9366	5,475E-04	1,095E-03	1,643E-03	2,190E-03	2,738E-04	5,475E-04	8,21E-04	1,10E-03	1,38E-03	
TOTAL INSIDE																		
	0	136.86	(ug/lb picked)	341.04	4,0044	8,0088	12,0132	16,0177	6,293E-04	1,259E-03	1,888E-03	2,517E-03	3,146E-04	6,293E-04	9,44E-04	1,26E-03	1,54E-03	
	1	111.58	(ug/lb picked)	274.03	3,2176	6,4352	9,6528	12,8704	5,056E-04	1,011E-03	1,517E-03	2,022E-03	2,526E-04	5,056E-04	7,58E-04	1,01E-03	1,29E-03	
	3	102.99	(ug/lb picked)	252.95	2,9701	5,9401	8,9102	11,8603	4,667E-04	9,334E-04	1,400E-03	1,867E-03	2,334E-04	4,667E-04	7,00E-04	9,33E-04	1,10E-03	
	7	106.53	(ug/lb picked)	266.01	3,1566	6,3172	9,4757	12,6343	4,963E-04	9,927E-04	1,486E-03	1,965E-03	2,482E-04	4,963E-04	7,45E-04	9,93E-04	1,26E-03	

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

PPA SUPPORT TASK 2110 003 VERSAR, INC. 9/9/93 JLD																		
REVIEW OF CHLOROTHALONIL FOLIAR DISLOSGEABLE RESIDUE/EXPOSURE STUDY LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA																		
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)				RISK ANALYSIS				TOXICOLOGICAL PARAMETERS					
					DAILY WORK HOURS:				DERMAL ABSORPTION FACTOR #1				CHLOROTHALONIL Q1* (mg/kg/day)-1:					
					ANNUAL EXPOSURE (days):	TOTAL WORK INTERVAL (hrs):	AVERAGE PICKING RATE (lb/hour):	AVERAGE PICKING RATE (lb/hour):	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	AVERAGE WEIGHT:	DERMAL ABS. FACT. #1 (%):
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																		
TOTAL OUTSIDE	0	4271.2	(ug/hour)	341.70	6.0182	12.0364	18.0546	24.0728	9.457E-04	1.891E-03	2.837E-03	3.783E-03	4.728E-04	9.457E-04	1.42E-03	1.89E-03	0.011	
	1	46770	(ug/hour)	374.16	6.5899	13.1798	19.7696	26.3595	1.036E-03	2.071E-03	3.107E-03	4.142E-03	5.179E-04	1.036E-03	1.55E-03	2.07E-03	70	
	3	33689	(ug/hour)	268.51	4.7468	9.4936	14.2404	18.9873	7.459E-04	1.492E-03	2.238E-03	2.984E-03	3.730E-04	7.459E-04	1.12E-03	1.49E-03	100	
	7	34805	(ug/hour)	278.44	4.8040	9.6080	14.7121	19.6161	7.706E-04	1.541E-03	2.312E-03	3.083E-03	3.853E-04	7.706E-04	1.18E-03	1.54E-03	50	
TOTAL INSIDE																		
	0	39032	(ug/hour)	312.25	5.4986	10.9981	16.4887	21.9983	8.642E-04	1.728E-03	2.593E-03	3.457E-03	4.321E-04	8.642E-04	1.30E-03	1.73E-03		
	1	41487	(ug/hour)	331.90	5.8455	11.6911	17.5366	23.3622	9.188E-04	1.837E-03	2.759E-03	3.674E-03	4.593E-04	9.188E-04	1.38E-03	1.84E-03		
	3	29362	(ug/hour)	234.90	4.1371	8.2742	12.4113	16.5484	6.501E-04	1.300E-03	1.950E-03	2.600E-03	3.251E-04	6.501E-04	9.75E-04	1.30E-03		
	7	31604	(ug/hour)	252.83	4.4531	8.9061	13.3592	17.8122	6.988E-04	1.400E-03	2.098E-03	2.769E-03	3.489E-04	6.988E-04	1.05E-03	1.40E-03		
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																		
TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	6.5985	13.1931	19.7696	26.3662	1.037E-03	2.079E-03	3.110E-03	4.146E-03	5.183E-04	1.037E-03	1.55E-03	2.07E-03		
	1	126.48	(ug/lb picked)	310.64	5.4711	10.9422	16.4133	21.8944	8.597E-04	1.719E-03	2.578E-03	3.439E-03	4.269E-04	8.597E-04	1.28E-03	1.72E-03		
	3	118.53	(ug/lb picked)	291.12	5.1274	10.2547	15.3821	20.5094	8.057E-04	1.611E-03	2.417E-03	3.223E-03	4.029E-04	8.057E-04	1.21E-03	1.61E-03		
	7	120.82	(ug/lb picked)	296.73	5.2262	10.4524	15.6786	20.9049	8.213E-04	1.643E-03	2.464E-03	3.285E-03	4.106E-04	8.213E-04	1.23E-03	1.64E-03		
TOTAL INSIDE																		
	0	136.86	(ug/lb picked)	341.04	6.0069	12.0132	18.0199	24.0265	9.439E-04	1.888E-03	2.832E-03	3.778E-03	4.718E-04	9.439E-04	1.42E-03	1.89E-03		
	1	111.58	(ug/lb picked)	274.03	4.8264	9.6526	14.4792	19.3056	7.584E-04	1.517E-03	2.275E-03	3.034E-03	3.792E-04	7.584E-04	1.14E-03	1.52E-03		
	3	102.99	(ug/lb picked)	252.95	4.4551	8.9102	13.3653	17.8204	7.001E-04	1.400E-03	2.100E-03	2.800E-03	3.500E-04	7.001E-04	1.05E-03	1.40E-03		
	7	109.53	(ug/lb picked)	269.01	4.7379	9.4757	14.2136	18.9515	7.445E-04	1.489E-03	2.234E-03	2.978E-03	3.723E-04	7.445E-04	1.12E-03	1.49E-03		

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLodgeABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

PPA SUPPORT TASK.2110.003 VERSAR,INC. 9/9/93 JLD																				
REVIEW OF CHLOROTHALONIL FOLIAR DISLUDGEABLE RESIDUE/EXPOSURE STUDY LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA																				
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS										
					DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS				
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																				
TOTAL OUTSIDE	0	42712	(ug/hour)	341.70	2.0061	4.0121	6.0182	8.0243	6.305E-05	1.261E-04	1.891E-04	2.522E-04	3.152E-05	6.305E-05	9.46E-05	1.28E-04	3.452E-05	6.904E-05	1.38E-04	2.01E-04
	1	46770	(ug/hour)	374.16	2.1986	4.3933	6.5909	8.7895	6.904E-05	1.391E-04	2.071E-04	2.791E-04	3.452E-05	6.904E-05	1.04E-04	1.38E-04	2.01E-04	3.452E-05	6.904E-05	1.38E-04
	3	33689	(ug/hour)	269.51	1.5923	3.1845	4.7468	6.3291	4.973E-05	9.946E-05	1.492E-04	1.989E-04	2.468E-05	4.973E-05	7.46E-05	9.95E-05	2.468E-05	4.973E-05	7.46E-05	9.95E-05
	7	34805	(ug/hour)	278.44	1.6347	3.2693	4.9040	6.5397	5.139E-05	1.028E-04	1.541E-04	2.055E-04	2.569E-05	5.139E-05	7.71E-05	1.03E-04	2.569E-05	5.139E-05	7.71E-05	1.03E-04
TOTAL INSIDE																				
	0	39032	(ug/hour)	312.25	1.8332	3.6664	5.4998	7.3328	5.761E-05	1.152E-04	1.728E-04	2.305E-04	2.891E-05	5.781E-05	8.64E-05	1.15E-04	2.891E-05	5.781E-05	8.64E-05	1.15E-04
	1	41487	(ug/hour)	331.90	1.9485	3.8970	5.8455	7.7841	6.124E-05	1.225E-04	1.837E-04	2.450E-04	3.092E-05	6.124E-05	9.19E-05	1.22E-04	3.092E-05	6.124E-05	9.19E-05	1.22E-04
	3	29362	(ug/hour)	234.90	1.3790	2.7581	4.1371	5.5161	4.334E-05	8.668E-05	1.300E-04	1.734E-04	2.167E-05	4.334E-05	6.50E-05	8.67E-05	2.167E-05	4.334E-05	6.50E-05	8.67E-05
	7	31904	(ug/hour)	252.83	1.4844	2.9687	4.4531	5.9374	4.865E-05	9.330E-04	1.400E-04	1.866E-04	2.333E-05	4.865E-05	7.00E-05	9.33E-05	2.333E-05	4.865E-05	7.00E-05	9.33E-05
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																				
TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	2.1988	4.3977	6.5965	8.7854	6.911E-05	1.382E-04	2.073E-04	2.794E-04	3.455E-05	6.911E-05	1.04E-04	1.38E-04	2.794E-04	3.455E-05	6.911E-05	1.04E-04
	1	126.48	(ug/lb picked)	310.64	1.8237	3.6474	5.4711	7.2848	5.732E-05	1.146E-04	1.719E-04	2.293E-04	2.869E-05	5.732E-05	8.60E-05	1.15E-04	2.869E-05	5.732E-05	8.60E-05	1.15E-04
	3	118.53	(ug/lb picked)	291.12	1.7091	3.4182	5.1274	6.8395	5.372E-05	1.074E-04	1.611E-04	2.149E-04	2.696E-05	5.372E-05	8.08E-05	1.07E-04	2.696E-05	5.372E-05	8.08E-05	1.07E-04
	7	120.82	(ug/lb picked)	286.73	1.7421	3.4841	5.2262	6.9993	5.475E-05	1.095E-04	1.643E-04	2.190E-04	2.739E-05	5.475E-05	8.21E-05	1.10E-04	2.739E-05	5.475E-05	8.21E-05	1.10E-04
TOTAL INSIDE																				
	0	138.86	(ug/lb picked)	341.04	2.0022	4.0044	6.0066	8.0088	6.293E-05	1.259E-04	1.888E-04	2.517E-04	3.149E-05	6.293E-05	9.44E-05	1.26E-04	3.149E-05	6.293E-05	9.44E-05	1.26E-04
	1	111.58	(ug/lb picked)	274.03	1.6068	3.2178	4.8264	6.4352	5.056E-05	1.011E-04	1.517E-04	2.022E-04	2.526E-05	5.056E-05	7.58E-05	1.01E-04	2.526E-05	5.056E-05	7.58E-05	1.01E-04
	3	102.99	(ug/lb picked)	252.95	1.4850	2.9701	4.4551	5.9401	4.667E-05	9.334E-05	1.400E-04	1.867E-04	2.334E-05	4.667E-05	7.00E-05	9.33E-05	2.334E-05	4.667E-05	7.00E-05	9.33E-05
	7	109.53	(ug/lb picked)	289.01	1.5793	3.1586	4.7378	6.3172	4.893E-05	9.927E-05	1.489E-04	1.985E-04	2.492E-05	4.893E-05	7.45E-05	9.93E-05	2.492E-05	4.893E-05	7.45E-05	9.93E-05

REVIEW OF CHLOROTHALONIL FOLIAR DISLodgeABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

PPA SUPPORT TASK 2110 003 VERSAR, INC. 9/9/93 JLD																								
REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA																								
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS									
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	CHLOROTHALONIL OI* (mg/kg/day): AVERAGE WEIGHT: DERMAL ABS. FACT. #1 (%): DERMAL ABS. FACT. #2 (%):	0.011 70 20 10				
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																								
TOTAL OUTSIDE	0	42712	(ug/hour)	341.70	4,0121	8,0243	12,0364	16,0485	1,261E-04	2,522E-04	3,783E-04	5,044E-04	6,305E-05	1,261E-04	1,88E-04	2,52E-04								
	1	46770	(ug/hour)	374.16	4,3933	8,7865	13,1796	17,5730	1,361E-04	2,721E-04	4,142E-04	5,523E-04	6,904E-05	1,361E-04	2,07E-04	2,78E-04								
	3	33689	(ug/hour)	269.51	3,1645	6,3291	9,4936	12,6592	9,946E-05	1,989E-04	2,984E-04	3,978E-04	4,973E-05	9,946E-05	1,49E-04	1,98E-04								
	7	34805	(ug/hour)	278.44	3,2693	6,5387	9,8060	13,0774	1,028E-04	2,055E-04	3,086E-04	4,110E-04	5,138E-05	1,028E-04	1,54E-04	2,06E-04								
TOTAL INSIDE																								
	0	39032	(ug/hour)	312.25	3,6864	7,3728	10,9991	14,6655	1,152E-04	2,305E-04	3,457E-04	4,609E-04	5,761E-05	1,152E-04	1,79E-04	2,30E-04								
	1	41487	(ug/hour)	331.90	3,8670	7,7941	11,6011	15,5981	1,225E-04	2,450E-04	3,674E-04	4,898E-04	6,124E-05	1,225E-04	1,84E-04	2,45E-04								
	3	29382	(ug/hour)	234.90	2,7581	5,5161	8,2742	11,0323	8,668E-05	1,734E-04	2,600E-04	3,467E-04	4,334E-05	8,668E-05	1,30E-04	1,73E-04								
	7	31604	(ug/hour)	252.83	2,9687	5,9374	8,9061	11,8748	9,330E-05	1,866E-04	2,799E-04	3,732E-04	4,665E-05	9,330E-05	1,40E-04	1,87E-04								
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																								
TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	4,3977	8,7954	13,1931	17,5908	1,362E-04	2,724E-04	4,146E-04	5,529E-04	6,811E-05	1,362E-04	2,07E-04	2,78E-04								
	1	126.48	(ug/lb picked)	310.64	3,6474	7,2948	10,9422	14,5996	1,148E-04	2,296E-04	3,439E-04	4,585E-04	5,732E-05	1,148E-04	1,72E-04	2,29E-04								
	3	118.53	(ug/lb picked)	291.12	3,4182	6,8365	10,2547	13,6730	1,074E-04	2,149E-04	3,223E-04	4,297E-04	5,372E-05	1,074E-04	1,61E-04	2,15E-04								
	7	120.82	(ug/lb picked)	296.73	3,4841	6,9683	10,4524	13,9366	1,095E-04	2,190E-04	3,285E-04	4,360E-04	5,475E-05	1,095E-04	1,64E-04	2,19E-04								
TOTAL INSIDE																								
	0	136.88	(ug/lb picked)	341.04	4,0044	8,0088	12,0132	16,0177	1,259E-04	2,517E-04	3,776E-04	5,034E-04	6,293E-05	1,259E-04	1,88E-04	2,52E-04								
	1	111.56	(ug/lb picked)	274.03	3,2176	6,4352	9,6528	12,8704	1,011E-04	2,022E-04	3,034E-04	4,045E-04	5,058E-05	1,011E-04	1,52E-04	2,02E-04								
	3	102.99	(ug/lb picked)	252.85	2,9701	5,9401	8,9102	11,8803	9,334E-05	1,867E-04	2,800E-04	3,734E-04	4,667E-05	9,334E-05	1,40E-04	1,87E-04								
	7	109.53	(ug/lb picked)	268.01	3,1566	6,3132	9,4757	12,6343	9,927E-05	1,985E-04	2,978E-04	3,971E-04	4,963E-05	9,927E-05	1,49E-04	1,99E-04								

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLodgeABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

PPA SUPPORT TASK:2110.003 VERSAR,INC. 9/9/93 JLD																		
REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY																		
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA																		
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)				RISK ANALYSIS									
									DERMAL ABSORPTION FACTOR #1				DERMAL ABSORPTION FACTOR #2					
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS		
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																		
TOTAL OUTSIDE	0	42712	(ug/hour)	341.70	6.0162	12.0364	18.0546	24.0728	1.981E-04	3.783E-04	5.674E-04	7.566E-04	9.457E-05	1.891E-04	2.84E-04	3.78E-04		
	1	46770	(ug/hour)	374.16	6.5899	13.1798	19.7888	26.3585	2.071E-04	4.142E-04	6.213E-04	8.284E-04	1.008E-04	2.071E-04	3.11E-04	4.14E-04		
	3	33689	(ug/hour)	269.51	4.7468	9.4936	14.2404	18.9873	1.482E-04	2.964E-04	4.478E-04	5.967E-04	7.458E-05	1.482E-04	2.24E-04	2.96E-04		
	7	34805	(ug/hour)	278.44	4.9040	9.8080	14.7121	19.6181	1.541E-04	3.083E-04	4.624E-04	6.185E-04	7.708E-05	1.541E-04	2.31E-04	3.08E-04		
TOTAL INSIDE	0	39032	(ug/hour)	312.25	5.4988	10.9991	16.4987	21.9983	1.728E-04	3.457E-04	5.185E-04	6.914E-04	8.642E-05	1.728E-04	2.59E-04	3.46E-04		
	1	41487	(ug/hour)	331.90	5.8455	11.6911	17.5398	23.3922	1.837E-04	3.674E-04	5.512E-04	7.349E-04	9.186E-05	1.837E-04	2.78E-04	3.67E-04		
	3	29362	(ug/hour)	234.90	4.1371	8.2742	12.4113	16.5484	1.300E-04	2.600E-04	3.901E-04	5.201E-04	6.501E-05	1.300E-04	1.95E-04	2.60E-04		
	7	31604	(ug/hour)	252.83	4.4531	8.9081	13.3592	17.8122	1.400E-04	2.799E-04	4.199E-04	5.598E-04	6.998E-05	1.400E-04	2.10E-04	2.80E-04		
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																		
TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	6.5965	13.1931	19.7896	26.3962	2.073E-04	4.146E-04	6.220E-04	8.293E-04	1.037E-04	2.073E-04	3.11E-04	4.15E-04		
	1	126.48	(ug/lb picked)	310.64	5.4711	10.9422	16.4133	21.8844	1.719E-04	3.439E-04	5.158E-04	6.878E-04	8.597E-05	1.719E-04	2.58E-04	3.44E-04		
	3	118.53	(ug/lb picked)	291.12	5.1274	10.2547	15.3821	20.5084	1.611E-04	3.223E-04	4.834E-04	6.446E-04	8.057E-05	1.611E-04	2.42E-04	3.22E-04		
	7	120.82	(ug/lb picked)	296.73	5.2982	10.4524	15.6786	20.9049	1.643E-04	3.286E-04	4.928E-04	6.570E-04	8.213E-05	1.643E-04	2.46E-04	3.28E-04		
TOTAL INSIDE	0	138.86	(ug/lb picked)	341.04	6.0086	12.0132	18.0199	24.0285	1.868E-04	3.778E-04	5.663E-04	7.551E-04	9.439E-05	1.868E-04	2.83E-04	3.78E-04		
	1	111.58	(ug/lb picked)	274.03	4.8294	9.6528	14.4792	19.3056	1.517E-04	3.034E-04	4.551E-04	6.087E-04	7.584E-05	1.517E-04	2.28E-04	3.03E-04		
	3	102.99	(ug/lb picked)	252.85	4.4551	8.9102	13.3653	17.8204	1.400E-04	2.800E-04	4.201E-04	5.601E-04	7.001E-05	1.400E-04	2.10E-04	2.80E-04		
	7	106.53	(ug/lb picked)	289.01	4.7378	9.4757	14.2136	18.9515	1.498E-04	2.978E-04	4.467E-04	5.956E-04	7.445E-05	1.498E-04	2.23E-04	2.98E-04		
TOXICOLOGICAL PARAMETERS					CHLOROTHALONIL Q1* (mg/kg/day):1; AVERAGE WEIGHT: DERMAL ABS. FACT. #1 (%): DERMAL ABS. FACT. #2 (%):													
DAILY WORK HOURS: ANNUAL EXPOSURE (days): TOTAL WORK INTERVAL (hrs): AVERAGE PICKING RATE (lb/hour):					15/30/45/60 30 70 307													
					0.011 70 20 10													

NOTES:

- * (ug/hr) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hr) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hr).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLodgeABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

PPA SUPPORT TASK 2110.003
VERSAR,INC. 9/9/93 JLD

REVIEW OF CHLOROTHALONIL FOLIAR DISLUDGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS	TOXICOLOGICAL PARAMETERS									
					DERMAL ABSORPTION FACTOR #1						DERMAL ABSORPTION FACTOR #2									
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS		30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS			
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																				
	TOTAL OUTSIDE	0	42712	(ug/hr)	341.70	2.0081	4.0121	6.0182	8.0243	1.579E-05	3.152E-05	4.729E-05	6.305E-05	8.352E-05	3.152E-06	6.305E-06	9.48E-06	1.26E-05	0.011	
		1	46770	(ug/hr)	374.16	2.1960	4.3933	6.5899	8.7865	1.726E-05	3.452E-05	5.178E-05	6.904E-05	9.452E-05	3.452E-06	6.904E-06	1.04E-05	1.39E-05	70	
		3	33689	(ug/hr)	269.51	1.5823	3.1645	4.7468	6.3291	1.243E-05	2.490E-05	3.730E-05	4.973E-05	6.735E-05	2.490E-06	4.973E-06	7.46E-06	9.95E-06	5	
	7	34805	(ug/hr)	278.44	1.6347	3.2693	4.9040	6.5387	1.264E-05	2.569E-05	3.853E-05	5.139E-05	7.058E-05	2.569E-06	5.139E-06	7.71E-06	1.03E-05	1		
TOTAL INSIDE	0	39032	(ug/hr)	312.25	1.8332	3.6664	5.4996	7.3328	1.440E-05	2.881E-05	4.321E-05	5.761E-05	7.815E-05	2.881E-06	5.761E-06	8.64E-06	1.15E-05			
	1	41487	(ug/hr)	331.90	1.9485	3.8970	5.8455	7.7941	1.531E-05	3.062E-05	4.593E-05	6.124E-05	8.129E-05	3.062E-06	6.124E-06	9.19E-06	1.22E-05			
	3	29362	(ug/hr)	234.90	1.3790	2.7581	4.1371	5.5161	1.084E-05	2.167E-05	3.251E-05	4.334E-05	5.875E-05	2.167E-06	4.334E-06	6.50E-06	8.67E-06			
	7	31604	(ug/hr)	252.83	1.4844	2.9687	4.4531	5.9374	1.169E-05	2.333E-05	3.499E-05	4.695E-05	6.357E-05	2.333E-06	4.695E-06	7.00E-06	9.33E-06			
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																				
	TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	2.1868	4.3877	6.5895	8.7954	1.726E-05	3.455E-05	5.163E-05	6.911E-05	9.455E-05	3.455E-06	6.911E-06	1.04E-05	1.38E-05		
		1	126.48	(ug/lb picked)	310.84	1.8237	3.6474	5.4711	7.2948	1.433E-05	2.866E-05	4.299E-05	5.792E-05	7.925E-05	2.866E-06	5.792E-06	8.60E-06	1.15E-05		
		3	118.53	(ug/lb picked)	281.12	1.7091	3.4182	5.1274	6.8365	1.343E-05	2.686E-05	4.029E-05	5.372E-05	7.425E-05	2.686E-06	5.372E-06	8.06E-06	1.07E-05		
	7	120.82	(ug/lb picked)	286.75	1.7421	3.4841	5.2262	6.9683	1.368E-05	2.738E-05	4.106E-05	5.475E-05	7.558E-05	2.738E-06	5.475E-06	8.21E-06	1.10E-05			
TOTAL INSIDE	0	138.88	(ug/lb picked)	341.04	2.0022	4.0044	6.0066	8.0088	1.573E-05	3.146E-05	4.719E-05	6.293E-05	8.595E-05	3.146E-06	6.293E-06	9.44E-06	1.26E-05			
	1	111.58	(ug/lb picked)	274.03	1.6088	3.2176	4.8264	6.4352	1.264E-05	2.528E-05	3.792E-05	5.056E-05	6.958E-05	2.528E-06	5.056E-06	7.58E-06	1.01E-05			
	3	102.99	(ug/lb picked)	252.95	1.4850	2.9701	4.4551	5.9401	1.167E-05	2.334E-05	3.500E-05	4.687E-05	6.458E-05	2.334E-06	4.687E-06	7.00E-06	9.33E-06			
	7	108.53	(ug/lb picked)	269.01	1.5793	3.1586	4.7378	6.3172	1.241E-05	2.482E-05	3.723E-05	4.963E-05	6.803E-05	2.482E-06	4.963E-06	7.45E-06	9.93E-06			

NOTES:

- * (ug/hr) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hr) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

PPA SUPPORT TASK 2110 003 VERSAR, INC. 9/9/93 JLD																							
REVIEW OF CHLOROTHALONIL FOLIAR DISLUDGEABLE RESIDUE/EXPOSURE STUDY LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA																							
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS								
										DERMAL ABSORPTION FACTOR #1								DERMAL ABSORPTION FACTOR #2					
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	AVERAGE WEIGHT: DERMAL ABS. FACT. #1 (%):	DERMAL ABS. FACT. #2 (%):		
EXPOSURE PARAMETERS				DAILY WORK HOURS:				ANNUAL EXPOSURE (days):				TOTAL WORK INTERVAL (yrs):				AVERAGE LIFETIME (yrs):				AVERAGE PICKING RATE (lb/hour):			
				15/30/45/60				30				70				307							
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																							
TOTAL OUTSIDE	0	42712	(ug/hour)	341.70	6.0182	12.0364	18.0546	24.0728	4.728E-05	9.457E-05	1.419E-04	1.891E-04	9.457E-06	1.891E-05	2.84E-05	3.78E-05	0.011						
	1	46770	(ug/hour)	374.18	6.5899	13.1798	19.7698	26.3595	5.179E-05	1.036E-04	1.553E-04	2.071E-04	1.036E-05	2.071E-05	3.11E-05	4.14E-05	70						
	3	33689	(ug/hour)	268.51	4.7463	9.4936	14.2404	18.9673	3.730E-05	7.459E-05	1.119E-04	1.492E-04	7.459E-06	1.492E-05	2.24E-05	2.98E-05	5						
	7	34805	(ug/hour)	278.44	4.9040	9.8080	14.7121	19.6161	3.853E-05	7.706E-05	1.150E-04	1.541E-04	7.706E-06	1.541E-05	2.31E-05	3.08E-05	1						
TOTAL INSIDE																							
	0	39032	(ug/hour)	312.25	5.4086	10.8081	16.4087	21.8683	4.321E-05	8.642E-05	1.296E-04	1.728E-04	8.642E-06	1.728E-05	2.59E-05	3.46E-05							
	1	41487	(ug/hour)	331.90	5.8453	11.6911	17.5366	23.3822	4.563E-05	9.126E-05	1.378E-04	1.837E-04	9.126E-06	1.837E-05	2.70E-05	3.67E-05							
	3	29362	(ug/hour)	234.90	4.1371	8.2742	12.4113	16.5484	3.251E-05	6.501E-05	9.752E-05	1.300E-04	6.501E-06	1.300E-05	1.95E-05	2.60E-05							
	7	31604	(ug/hour)	252.83	4.4531	8.9061	13.3592	17.8122	3.498E-05	6.996E-05	1.050E-04	1.400E-04	6.996E-06	1.400E-05	2.10E-05	2.80E-05							
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																							
TOTAL OUTSIDE	0	152.50	(ug/lb picked)	374.54	6.5965	13.1931	19.7898	26.3962	5.183E-05	1.037E-04	1.555E-04	2.073E-04	1.037E-05	2.073E-05	3.11E-05	4.15E-05							
	1	126.48	(ug/lb picked)	310.64	5.4711	10.9422	16.4133	21.8644	4.299E-05	8.597E-05	1.280E-04	1.719E-04	8.597E-06	1.719E-05	2.58E-05	3.44E-05							
	3	118.53	(ug/lb picked)	291.12	5.1274	10.2547	15.3821	20.5084	4.029E-05	8.057E-05	1.208E-04	1.611E-04	8.057E-06	1.611E-05	2.42E-05	3.22E-05							
	7	120.82	(ug/lb picked)	296.73	5.2262	10.4524	15.6786	20.9049	4.106E-05	8.213E-05	1.232E-04	1.643E-04	8.213E-06	1.643E-05	2.46E-05	3.28E-05							
TOTAL INSIDE																							
	0	138.88	(ug/lb picked)	341.04	6.0086	12.0132	18.0190	24.0285	4.719E-05	9.439E-05	1.418E-04	1.888E-04	9.439E-06	1.888E-05	2.83E-05	3.78E-05							
	1	111.56	(ug/lb picked)	274.03	4.8264	9.6526	14.4792	19.3059	3.792E-05	7.584E-05	1.138E-04	1.517E-04	7.584E-06	1.517E-05	2.28E-05	3.03E-05							
	3	102.89	(ug/lb picked)	252.95	4.4551	8.9102	13.3653	17.8204	3.500E-05	7.001E-05	1.050E-04	1.400E-04	7.001E-06	1.400E-05	2.10E-05	2.80E-05							
	7	109.53	(ug/lb picked)	269.01	4.7379	9.4757	14.2130	19.6515	3.729E-05	7.449E-05	1.117E-04	1.489E-04	7.449E-06	1.489E-05	2.23E-05	2.96E-05							

NOTES:

- (µg/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) • DAILY HOURS or EXPOSURE (mg/1b tomatoes picked) • PICKING RATE (lb/hour) • DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour)
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) • [ANNUAL EXPOSURE (days)/365 (days)] • [WORK INTERVAL (hrs)/AVG. LIFETIME (yrs)]
- LADE (mg/day) • C1* (mg/kg/day-1) • [DERMAL ABS. FACTOR(100)]/(BODY WEIGHT(kg))

ATTACHMENT E

LADEs/RISKS
FOR PREDICTED EXPOSURES

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
				(mg/day)					DERMAL ABSORPTION FACTOR #1	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #2	15 DAYS	30 DAYS	45 DAYS	60 DAYS
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS										
TOTAL INSIDE	0	34207.6	(ug/hour)	3.5590	7.1779	10.7669	14.3559	17.9449	1.129E-03	5.640E-04	1.096E-03	1.622E-03	2.149E-03	2.676E-04	5.352E-04	8.028E-04	1.070E-03	1.338E-03
	1	37178.4	(ug/hour)	3.4921	6.9842	10.4763	13.9684	17.4604	1.096E-03	5.488E-04	1.067E-03	1.594E-03	2.121E-03	2.648E-04	5.296E-04	7.972E-04	1.059E-03	1.327E-03
	2	38145.9	(ug/hour)	3.3952	6.7905	10.1857	13.5808	17.1169	1.067E-03	5.335E-04	1.037E-03	1.555E-03	2.073E-03	2.592E-04	5.183E-04	7.775E-04	1.040E-03	1.308E-03
	3	35113.9	(ug/hour)	3.2984	6.5967	9.8951	13.1905	16.7216	1.037E-03	5.183E-04	1.007E-03	1.500E-03	2.018E-03	2.471E-04	5.030E-04	7.545E-04	1.011E-03	1.269E-03
	4	34062.6	(ug/hour)	3.2015	6.4030	9.6045	12.8000	16.4000	1.007E-03	5.030E-04	9.775E-04	1.460E-03	1.973E-03	2.426E-04	4.879E-04	7.318E-04	9.820E-04	1.230E-03
	5	33051.4	(ug/hour)	3.1046	6.2093	9.3138	12.4165	16.0165	9.775E-04	4.879E-04	9.522E-04	1.418E-03	1.918E-03	2.375E-04	4.726E-04	7.165E-04	9.671E-04	1.201E-03
	6	32020.2	(ug/hour)	3.0078	6.0155	9.0233	12.0311	15.6311	9.522E-04	4.726E-04	9.269E-04	1.372E-03	1.868E-03	2.324E-04	4.574E-04	6.912E-04	9.422E-04	1.172E-03
	7	30985.9	(ug/hour)	2.9109	5.8219	8.7327	11.6436	15.2436	9.269E-04	4.574E-04	8.991E-04	1.327E-03	1.818E-03	2.273E-04	4.422E-04	6.759E-04	9.269E-04	1.143E-03
	8	29957.7	(ug/hour)	2.8140	5.6281	8.4421	11.2561	14.8561	9.016E-04	4.422E-04	8.744E-04	1.281E-03	1.768E-03	2.222E-04	4.270E-04	6.604E-04	9.116E-04	1.114E-03
	9	28928.5	(ug/hour)	2.7172	5.4343	8.1518	10.8688	14.4688	8.744E-04	4.270E-04	8.497E-04	1.235E-03	1.718E-03	2.171E-04	4.118E-04	6.449E-04	8.961E-04	1.085E-03
	10	27895.2	(ug/hour)	2.6203	5.2405	7.8609	10.4812	14.0812	8.497E-04	4.118E-04	8.250E-04	1.189E-03	1.668E-03	2.120E-04	3.965E-04	6.294E-04	8.802E-04	1.056E-03
	11	26864.0	(ug/hour)	2.5234	5.0468	7.5703	10.0937	13.6937	8.250E-04	3.965E-04	8.003E-04	1.144E-03	1.618E-03	2.069E-04	3.813E-04	6.140E-04	8.643E-04	1.027E-03
	12	25832.7	(ug/hour)	2.4266	4.8531	7.2797	9.7062	13.3062	8.003E-04	3.813E-04	7.756E-04	1.098E-03	1.568E-03	2.018E-04	3.661E-04	5.982E-04	8.484E-04	9.98E-04
	13	24801.5	(ug/hour)	2.3297	4.6594	6.9891	9.3188	12.9188	7.756E-04	3.661E-04	7.509E-04	1.052E-03	1.518E-03	1.967E-04	3.509E-04	5.830E-04	8.325E-04	9.69E-04
	14	23770.3	(ug/hour)	2.2328	4.4656	6.6985	8.9313	12.5313	7.509E-04	3.509E-04	7.262E-04	1.006E-03	1.468E-03	1.916E-04	3.357E-04	5.679E-04	8.166E-04	9.40E-04
	15	22739.0	(ug/hour)	2.1360	4.2718	6.4079	8.5438	12.1438	7.262E-04	3.357E-04	7.015E-04	9.613E-04	1.418E-03	1.865E-04	3.205E-04	5.527E-04	8.007E-04	9.21E-04
	16	21707.8	(ug/hour)	2.0391	4.0780	6.1173	8.1564	11.7564	7.015E-04	3.205E-04	6.764E-04	9.163E-04	1.368E-03	1.814E-04	3.053E-04	5.375E-04	7.858E-04	8.92E-04
	17	20676.6	(ug/hour)	1.9422	3.8844	5.8267	7.7689	11.3689	6.764E-04	3.053E-04	6.513E-04	8.713E-04	1.318E-03	1.763E-04	2.903E-04	5.223E-04	7.709E-04	8.73E-04
	18	19645.3	(ug/hour)	1.8454	3.6907	5.5361	7.3814	10.9814	6.513E-04	2.903E-04	6.262E-04	8.263E-04	1.268E-03	1.712E-04	2.751E-04	5.071E-04	7.560E-04	8.54E-04
	19	18614.1	(ug/hour)	1.7485	3.4970	5.2455	6.9939	10.5939	6.262E-04	2.751E-04	6.012E-04	7.813E-04	1.218E-03	1.661E-04	2.599E-04	4.919E-04	7.411E-04	8.35E-04
	20	17582.8	(ug/hour)	1.6516	3.3032	4.9549	6.6063	10.2063	6.012E-04	2.599E-04	5.761E-04	7.363E-04	1.168E-03	1.610E-04	2.447E-04	4.767E-04	7.260E-04	8.16E-04
	21	16551.8	(ug/hour)	1.5547	3.1095	4.6642	6.2190	9.8190	5.761E-04	2.447E-04	5.510E-04	6.913E-04	1.118E-03	1.559E-04	2.295E-04	4.615E-04	7.111E-04	8.07E-04
	22	15520.4	(ug/hour)	1.4578	2.9158	4.3736	5.8315	9.4315	5.510E-04	2.295E-04	5.259E-04	6.463E-04	1.068E-03	1.508E-04	2.143E-04	4.463E-04	6.962E-04	7.92E-04
	23	14489.1	(ug/hour)	1.3610	2.7220	4.0830	5.4441	9.0441	5.259E-04	2.143E-04	5.008E-04	6.213E-04	1.018E-03	1.457E-04	2.091E-04	4.311E-04	6.810E-04	7.73E-04
	24	13457.9	(ug/hour)	1.2641	2.5283	3.7924	5.0569	8.6569	5.008E-04	2.091E-04	4.757E-04	5.966E-04	9.713E-04	1.406E-04	1.939E-04	4.159E-04	6.659E-04	7.54E-04
	25	12426.6	(ug/hour)	1.1673	2.3346	3.5018	4.6691	8.2691	4.757E-04	1.939E-04	4.506E-04	5.716E-04	9.213E-04	1.355E-04	1.887E-04	4.007E-04	6.508E-04	7.35E-04
	26	11395.4	(ug/hour)	1.0704	2.1409	3.2112	4.2818	7.8818	4.506E-04	1.887E-04	4.255E-04	5.465E-04	8.713E-04	1.304E-04	1.836E-04	3.855E-04	6.357E-04	7.16E-04
	27	10364.2	(ug/hour)	0.9735	1.9471	2.9206	3.8942	7.4942	4.255E-04	1.836E-04	4.004E-04	5.214E-04	8.213E-04	1.253E-04	1.785E-04	3.703E-04	6.206E-04	7.07E-04
	28	9332.9	(ug/hour)	0.8767	1.7533	2.6300	3.5067	7.1067	4.004E-04	1.785E-04	3.753E-04	4.963E-04	7.713E-04	1.202E-04	1.726E-04	3.551E-04	6.055E-04	6.88E-04
	29	8301.7	(ug/hour)	0.7798	1.5596	2.3394	3.1192	6.7192	3.753E-04	1.726E-04	3.502E-04	4.712E-04	7.213E-04	1.151E-04	1.677E-04	3.400E-04	5.904E-04	6.79E-04
	30	7270.5	(ug/hour)	0.6829	1.3659	2.0486	2.7318	6.3318	3.502E-04	1.677E-04	3.251E-04	4.461E-04	6.913E-04	1.100E-04	1.628E-04	3.248E-04	5.753E-04	6.60E-04
	31	6239.2	(ug/hour)	0.5861	1.1721	1.7582	2.3443	5.9443	3.251E-04	1.628E-04	3.000E-04	4.210E-04	6.463E-04	1.049E-04	1.586E-04	3.096E-04	5.602E-04	6.41E-04
	32	5208.0	(ug/hour)	0.4892	0.9784	1.4676	1.9588	5.5568	3.000E-04	1.577E-04	2.749E-04	3.959E-04	6.013E-04	1.000E-04	1.537E-04	2.944E-04	5.451E-04	6.22E-04
	33	4178.7	(ug/hour)	0.3923	0.7847	1.1770	1.5693	5.1693	2.749E-04	1.526E-04	2.498E-04	3.708E-04	5.713E-04	9.49E-05	1.484E-04	2.892E-04	5.300E-04	6.03E-04
	34	3145.5	(ug/hour)	0.2955	0.5909	0.9864	1.1819	4.7819	2.498E-04	1.475E-04	2.247E-04	3.457E-04	5.463E-04	8.98E-05	1.433E-04	2.840E-04	5.149E-04	5.94E-04
	35	2114.3	(ug/hour)	0.1986	0.3972	0.7944	0.9859	4.3944	2.247E-04	1.424E-04	2.096E-04	3.206E-04	5.213E-04	8.47E-05	1.382E-04	2.788E-04	5.000E-04	5.75E-04

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoe picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm2) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
TOTAL INSIDE	0	38,207.8	(ug/hour)	305.06	1.7945	3.5980	5.3355	7.1779	8.9402	1.128E-04	1.692E-04	2.250E-04	2.802E-05	3.348E-05	3.894E-05	4.440E-05	4.986E-05	5.532E-05	6.078E-05
	1	37,176.4	(ug/hour)	297.41	1.7461	3.4821	5.2362	6.9942	8.7461	1.108E-04	1.601E-04	2.104E-04	2.607E-05	3.110E-05	3.613E-05	4.116E-05	4.619E-05	5.122E-05	5.625E-05
	2	36,145.1	(ug/hour)	289.16	1.6976	3.3952	5.0929	6.7905	8.4882	1.087E-04	1.580E-04	2.083E-04	2.586E-05	3.089E-05	3.592E-05	4.095E-05	4.598E-05	5.101E-05	5.604E-05
	3	35,113.9	(ug/hour)	280.81	1.6492	3.2968	4.9478	6.5967	8.2456	1.037E-04	1.509E-04	2.012E-04	2.515E-05	3.018E-05	3.521E-05	4.024E-05	4.527E-05	5.030E-05	5.533E-05
	4	34,082.6	(ug/hour)	272.66	1.6008	3.2015	4.8023	6.4030	8.0037	1.006E-04	1.458E-04	1.961E-04	2.464E-05	2.967E-05	3.470E-05	3.973E-05	4.476E-05	4.979E-05	5.482E-05
	5	33,051.4	(ug/hour)	264.41	1.5523	3.1046	4.6570	6.2083	7.7595	9.757E-05	1.404E-04	1.851E-04	2.354E-05	2.857E-05	3.360E-05	3.863E-05	4.366E-05	4.869E-05	5.372E-05
	6	32,020.2	(ug/hour)	256.16	1.5039	3.0078	4.5116	6.0155	7.5194	9.453E-05	1.361E-04	1.808E-04	2.311E-05	2.814E-05	3.317E-05	3.820E-05	4.323E-05	4.826E-05	5.329E-05
	7	30,995.9	(ug/hour)	247.91	1.4554	2.9109	4.3663	5.8216	7.2765	9.148E-05	1.317E-04	1.764E-04	2.267E-05	2.770E-05	3.273E-05	3.776E-05	4.279E-05	4.782E-05	5.285E-05
	8	29,957.7	(ug/hour)	239.66	1.4070	2.8140	4.2210	5.6261	7.0311	8.844E-05	1.272E-04	1.719E-04	2.222E-05	2.725E-05	3.228E-05	3.731E-05	4.234E-05	4.737E-05	5.240E-05
	9	28,928.5	(ug/hour)	231.41	1.3586	2.7172	4.0767	5.4318	6.7869	8.540E-05	1.227E-04	1.674E-04	2.177E-05	2.680E-05	3.183E-05	3.686E-05	4.189E-05	4.692E-05	5.195E-05
	10	27,895.2	(ug/hour)	223.16	1.3101	2.6203	3.9304	5.2408	6.5469	8.236E-05	1.182E-04	1.629E-04	2.132E-05	2.635E-05	3.138E-05	3.641E-05	4.144E-05	4.647E-05	5.150E-05
	11	26,864.0	(ug/hour)	214.91	1.2617	2.5234	3.7851	5.0468	6.3029	7.931E-05	1.137E-04	1.584E-04	2.087E-05	2.590E-05	3.093E-05	3.596E-05	4.099E-05	4.602E-05	5.105E-05
	12	25,832.7	(ug/hour)	206.66	1.2133	2.4266	3.6398	4.8594	6.0705	7.626E-05	1.092E-04	1.539E-04	2.042E-05	2.545E-05	3.048E-05	3.551E-05	4.054E-05	4.557E-05	5.060E-05
	13	24,801.5	(ug/hour)	198.41	1.1648	2.3297	3.4945	4.6594	5.8195	7.321E-05	1.047E-04	1.494E-04	1.997E-05	2.499E-05	2.999E-05	3.499E-05	3.999E-05	4.499E-05	4.999E-05
	14	23,770.3	(ug/hour)	190.16	1.1164	2.2328	3.3492	4.4693	5.5894	7.017E-05	1.002E-04	1.449E-04	1.952E-05	2.454E-05	2.954E-05	3.454E-05	3.954E-05	4.454E-05	4.954E-05
	15	22,739.0	(ug/hour)	181.91	1.0680	2.1360	3.2039	4.2718	5.3397	6.713E-05	9.571E-05	1.394E-04	1.897E-05	2.399E-05	2.899E-05	3.399E-05	3.899E-05	4.399E-05	4.899E-05
	16	21,707.8	(ug/hour)	173.66	1.0195	2.0391	3.0568	4.0743	5.0918	6.406E-05	9.104E-05	1.331E-04	1.834E-05	2.336E-05	2.838E-05	3.340E-05	3.842E-05	4.344E-05	4.846E-05
	17	20,676.6	(ug/hour)	165.41	0.9711	1.9422	2.9133	3.8844	4.8555	6.104E-05	8.712E-05	1.288E-04	1.791E-05	2.293E-05	2.795E-05	3.297E-05	3.799E-05	4.301E-05	4.803E-05
	18	19,645.3	(ug/hour)	157.16	0.9227	1.8454	2.7660	3.6867	4.6078	5.800E-05	8.400E-05	1.246E-04	1.749E-05	2.251E-05	2.753E-05	3.255E-05	3.757E-05	4.259E-05	4.761E-05
	19	18,614.1	(ug/hour)	148.91	0.8742	1.7485	2.6277	3.4870	4.3463	5.498E-05	8.100E-05	1.204E-04	1.707E-05	2.209E-05	2.711E-05	3.213E-05	3.715E-05	4.217E-05	4.719E-05
	20	17,582.8	(ug/hour)	140.66	0.8258	1.6518	2.4774	3.3032	4.1625	5.191E-05	7.700E-05	1.162E-04	1.665E-05	2.167E-05	2.669E-05	3.171E-05	3.673E-05	4.175E-05	4.677E-05
	21	16,551.6	(ug/hour)	132.41	0.7774	1.5547	2.3321	3.1065	3.8808	4.886E-05	7.300E-05	1.120E-04	1.623E-05	2.125E-05	2.627E-05	3.129E-05	3.631E-05	4.133E-05	4.635E-05
	22	15,520.4	(ug/hour)	124.16	0.7289	1.4578	2.1968	2.9158	3.6397	4.582E-05	6.899E-05	1.078E-04	1.581E-05	2.083E-05	2.585E-05	3.087E-05	3.589E-05	4.091E-05	4.593E-05
	23	14,489.1	(ug/hour)	115.91	0.6805	1.3610	2.0415	2.7220	3.3929	4.277E-05	6.498E-05	1.036E-04	1.539E-05	2.041E-05	2.543E-05	3.045E-05	3.547E-05	4.049E-05	4.551E-05
	24	13,457.9	(ug/hour)	107.66	0.6321	1.2641	1.9261	2.5833	3.2464	4.069E-05	6.097E-05	9.950E-05	1.493E-05	1.995E-05	2.497E-05	2.999E-05	3.501E-05	4.003E-05	4.505E-05
	25	12,426.6	(ug/hour)	99.41	0.5838	1.1673	1.7939	2.3348	2.8757	3.864E-05	5.690E-05	9.730E-05	1.467E-05	1.969E-05	2.471E-05	2.973E-05	3.475E-05	3.977E-05	4.479E-05
	26	11,395.4	(ug/hour)	91.16	0.5352	1.0704	1.6958	2.1408	2.5867	3.648E-05	5.484E-05	9.510E-05	1.461E-05	1.963E-05	2.465E-05	2.967E-05	3.469E-05	3.971E-05	4.473E-05
	27	10,364.2	(ug/hour)	82.91	0.4868	0.9735	1.4603	1.9471	2.3920	3.432E-05	5.278E-05	9.300E-05	1.455E-05	1.957E-05	2.459E-05	2.961E-05	3.463E-05	3.965E-05	4.467E-05
	28	9,332.9	(ug/hour)	74.66	0.4383	0.8707	1.3150	1.7533	2.1982	3.216E-05	5.072E-05	9.090E-05	1.449E-05	1.951E-05	2.453E-05	2.955E-05	3.457E-05	3.959E-05	4.461E-05
	29	8,301.7	(ug/hour)	66.41	0.3899	0.7766	1.1667	1.5566	1.9465	2.999E-05	4.866E-05	8.880E-05	1.443E-05	1.945E-05	2.447E-05	2.949E-05	3.451E-05	3.953E-05	4.455E-05
	30	7,270.5	(ug/hour)	58.16	0.3415	0.6828	1.0244	1.3659	1.7068	2.783E-05	4.660E-05	8.670E-05	1.437E-05	1.939E-05	2.441E-05	2.943E-05	3.445E-05	3.947E-05	4.449E-05
	31	6,239.2	(ug/hour)	49.91	0.2930	0.5861	0.8791	1.1721	1.4650	2.567E-05	4.454E-05	8.464E-05	1.431E-05	1.933E-05	2.435E-05	2.937E-05	3.439E-05	3.941E-05	4.443E-05
	32	5,208.0	(ug/hour)	41.66	0.2446	0.4892	0.7338	0.9764	1.2193	2.351E-05	4.248E-05	8.258E-05	1.425E-05	1.927E-05	2.429E-05	2.931E-05	3.433E-05	3.935E-05	4.437E-05
	33	4,176.7	(ug/hour)	33.41	0.1962	0.3923	0.5865	0.7847	1.0280	2.135E-05	4.042E-05	8.052E-05	1.419E-05	1.921E-05	2.423E-05	2.925E-05	3.427E-05	3.929E-05	4.431E-05
	34	3,143.5	(ug/hour)	25.16	0.1477	0.2855	0.4332	0.5808	0.7294	1.919E-05	3.836E-05	7.846E-05	1.413E-05	1.915E-05	2.417E-05	2.919E-05	3.421E-05	3.923E-05	4.425E-05
	35	2,114.3	(ug/hour)	16.91	0.0983	0.1869	0.2878	0.3872	0.4866	1.703E-05	3.620E-05	7.630E-05	1.407E-05	1.909E-05	2.411E-05	2.913E-05	3.415E-05	3.917E-05	4.419E-05

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (007 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISSEMINABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FOR (ug/cm2) LEVELS

STUDY DESCRIPTION	DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
TOTAL INSIDE	0	38,207.6	(ug/hour)	305.90	3,589.0	7,177.9	10,766.9	14,355.9	17,944.9	15,256.4	3,304.4	4,312.4	5,320.4	6,328.4	7,336.4	8,344.4	9,352.4	10,360.4	11,368.4
1	1	37,176.4	(ug/hour)	287.41	3,492.1	6,984.2	10,476.3	13,968.4	17,460.5	14,868.4	3,283.4	4,308.4	5,333.4	6,358.4	7,383.4	8,408.4	9,433.4	10,458.4	11,483.4
2	2	36,145.2	(ug/hour)	269.18	3,395.2	6,790.4	10,185.7	13,581.0	16,976.3	14,384.4	3,201.4	4,268.4	5,335.4	6,402.4	7,469.4	8,536.4	9,603.4	10,670.4	11,737.4
3	3	35,114.0	(ug/hour)	260.91	3,298.4	6,596.7	9,893.1	13,189.5	16,485.9	13,893.4	3,118.4	4,175.4	5,232.4	6,289.4	7,346.4	8,403.4	9,460.4	10,517.4	11,574.4
4	4	34,082.8	(ug/hour)	272.86	3,201.5	6,403.0	9,604.5	12,806.0	16,007.5	13,415.4	3,035.4	4,092.4	5,149.4	6,206.4	7,263.4	8,320.4	9,377.4	10,434.4	11,491.4
5	5	33,051.4	(ug/hour)	264.41	3,104.6	6,209.3	9,313.9	12,418.2	15,522.5	12,930.4	2,952.4	3,977.4	5,002.4	6,027.4	7,052.4	8,077.4	9,102.4	10,127.4	11,152.4
6	6	32,020.2	(ug/hour)	256.18	3,007.8	6,015.5	9,023.3	12,031.1	15,038.9	12,446.4	2,869.4	3,894.4	4,919.4	5,944.4	6,969.4	7,994.4	9,019.4	10,044.4	11,069.4
7	7	30,989.9	(ug/hour)	247.91	2,910.9	5,821.8	8,732.7	11,643.6	14,555.5	11,963.4	2,785.4	3,810.4	4,835.4	5,860.4	6,885.4	7,910.4	8,935.4	9,960.4	10,985.4
8	8	29,959.7	(ug/hour)	239.66	2,814.0	5,628.1	8,442.1	11,256.1	14,070.1	11,478.4	2,692.4	3,717.4	4,742.4	5,767.4	6,792.4	7,817.4	8,842.4	9,867.4	10,892.4
9	9	28,929.5	(ug/hour)	231.41	2,717.2	5,435.3	8,151.5	10,867.7	13,583.9	10,992.4	2,609.4	3,634.4	4,659.4	5,684.4	6,709.4	7,734.4	8,759.4	9,784.4	10,809.4
10	10	27,899.2	(ug/hour)	223.16	2,620.3	5,242.6	7,958.8	10,675.0	13,391.2	10,800.4	2,526.4	3,551.4	4,576.4	5,601.4	6,626.4	7,651.4	8,676.4	9,701.4	10,726.4
11	11	26,868.0	(ug/hour)	214.91	2,523.4	5,049.9	7,766.1	10,482.3	13,198.5	10,607.4	2,443.4	3,468.4	4,493.4	5,518.4	6,543.4	7,568.4	8,593.4	9,618.4	10,643.4
12	12	25,837.7	(ug/hour)	206.66	2,426.6	4,857.1	7,285.3	9,714.5	12,143.7	10,552.4	2,360.4	3,385.4	4,410.4	5,435.4	6,460.4	7,485.4	8,510.4	9,535.4	10,560.4
13	13	24,807.5	(ug/hour)	198.41	2,329.7	4,664.4	6,993.1	9,321.9	11,650.7	10,059.4	2,277.4	3,302.4	4,327.4	5,352.4	6,377.4	7,402.4	8,427.4	9,452.4	10,477.4
14	14	23,777.3	(ug/hour)	190.16	2,232.8	4,471.8	6,800.5	9,129.3	11,458.1	9,867.4	2,194.4	3,219.4	4,244.4	5,269.4	6,294.4	7,319.4	8,344.4	9,369.4	10,394.4
15	15	22,747.0	(ug/hour)	181.91	2,136.0	4,278.9	6,607.6	8,936.3	11,265.1	9,674.4	2,111.4	3,136.4	4,161.4	5,186.4	6,211.4	7,236.4	8,261.4	9,286.4	10,311.4
16	16	21,716.8	(ug/hour)	173.66	2,039.1	4,086.0	6,414.7	8,743.5	11,072.3	9,481.4	2,028.4	3,053.4	4,078.4	5,103.4	6,128.4	7,153.4	8,178.4	9,203.4	10,228.4
17	17	20,686.6	(ug/hour)	165.41	1,942.2	3,893.1	6,221.8	8,550.6	10,879.4	9,288.4	1,945.4	2,970.4	3,995.4	5,020.4	6,045.4	7,070.4	8,095.4	9,120.4	10,145.4
18	18	19,656.3	(ug/hour)	157.16	1,845.4	3,699.7	5,928.1	8,256.9	10,585.7	8,994.4	1,862.4	2,887.4	3,912.4	4,937.4	5,962.4	6,987.4	8,012.4	9,037.4	10,062.4
19	19	18,626.1	(ug/hour)	148.91	1,748.5	3,497.0	5,726.5	8,055.3	10,384.1	8,793.4	1,779.4	2,804.4	3,829.4	4,854.4	5,879.4	6,904.4	7,929.4	8,954.4	9,979.4
20	20	17,595.8	(ug/hour)	140.66	1,651.6	3,303.2	5,531.6	7,860.4	10,189.2	8,598.4	1,696.4	2,721.4	3,746.4	4,771.4	5,796.4	6,821.4	7,846.4	8,871.4	9,896.4
21	21	16,565.5	(ug/hour)	132.41	1,554.7	3,109.3	5,336.9	7,665.7	9,994.5	8,403.4	1,613.4	2,638.4	3,663.4	4,688.4	5,713.4	6,738.4	7,763.4	8,788.4	9,813.4
22	22	15,535.2	(ug/hour)	124.16	1,457.8	2,915.8	5,143.0	7,472.2	9,801.4	8,210.4	1,530.4	2,555.4	3,580.4	4,605.4	5,630.4	6,655.4	7,680.4	8,705.4	9,730.4
23	23	14,504.9	(ug/hour)	115.91	1,360.9	2,722.0	4,948.3	7,277.5	9,606.9	8,015.4	1,447.4	2,472.4	3,497.4	4,522.4	5,547.4	6,572.4	7,597.4	8,622.4	9,647.4
24	24	13,474.6	(ug/hour)	107.66	1,264.1	2,528.3	4,755.6	7,085.0	9,414.4	7,823.4	1,364.4	2,389.4	3,414.4	4,439.4	5,464.4	6,489.4	7,514.4	8,539.4	9,564.4
25	25	12,444.3	(ug/hour)	99.41	1,167.3	2,334.6	4,582.9	6,912.3	9,241.7	7,650.4	1,281.4	2,306.4	3,331.4	4,356.4	5,381.4	6,406.4	7,431.4	8,456.4	9,481.4
26	26	11,414.0	(ug/hour)	91.16	1,070.4	2,140.9	4,489.4	6,818.8	9,148.2	7,557.4	1,198.4	2,223.4	3,248.4	4,273.4	5,298.4	6,323.4	7,348.4	8,373.4	9,398.4
27	27	10,383.7	(ug/hour)	82.91	973.5	1,947.1	4,296.9	6,626.3	8,955.7	7,364.4	1,115.4	2,140.4	3,165.4	4,190.4	5,215.4	6,240.4	7,265.4	8,290.4	9,315.4
28	28	9,353.4	(ug/hour)	74.66	876.7	1,753.3	4,104.2	6,433.6	8,763.0	7,172.4	1,032.4	2,057.4	3,082.4	4,107.4	5,132.4	6,157.4	7,182.4	8,207.4	9,232.4
29	29	8,323.1	(ug/hour)	66.41	779.9	1,559.6	3,911.5	6,240.9	8,570.3	6,979.4	956.4	1,981.4	2,956.4	3,931.4	4,906.4	5,881.4	6,856.4	7,831.4	8,806.4
30	30	7,292.8	(ug/hour)	58.16	683.0	1,365.9	3,718.8	6,048.2	8,377.6	6,786.4	873.4	1,898.4	2,873.4	3,848.4	4,823.4	5,798.4	6,773.4	7,748.4	8,723.4
31	31	6,262.5	(ug/hour)	49.91	596.1	1,172.1	3,525.1	5,854.5	8,183.9	6,593.4	800.4	1,825.4	2,800.4	3,775.4	4,750.4	5,725.4	6,700.4	7,675.4	8,650.4
32	32	5,232.2	(ug/hour)	41.66	509.2	1,078.4	3,332.4	5,661.8	7,991.2	6,400.4	707.4	1,732.4	2,707.4	3,682.4	4,657.4	5,632.4	6,607.4	7,582.4	8,557.4
33	33	4,201.9	(ug/hour)	33.41	392.3	874.7	3,139.7	5,469.1	7,798.5	6,207.4	614.4	1,639.4	2,614.4	3,589.4	4,564.4	5,539.4	6,514.4	7,489.4	8,464.4
34	34	3,171.6	(ug/hour)	25.16	295.5	680.0	3,047.0	5,376.4	7,705.8	6,114.4	501.4	1,526.4	2,501.4	3,476.4	4,451.4	5,426.4	6,401.4	7,376.4	8,351.4
35	35	2,141.3	(ug/hour)	16.91	208.8	507.2	2,955.3	5,284.7	7,614.1	6,023.4	488.4	1,413.4	2,388.4	3,363.4	4,338.4	5,313.4	6,288.4	7,263.4	8,238.4

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/day tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 days)] * [WORK INTERVAL (hr)/AVG. LIFETIME (yr)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS										
					5.3535	10.7069	16.1504	21.5338	26.9112										
TOTAL INSIDE	0	38207.8	(ug/hour)	305.86	5.3535	10.7069	16.1504	21.5338	26.9112	DERMAL ABSORPTION FACTOR #1	DERMAL ABSORPTION FACTOR #2	CHLOROTHALONIL Q1* (mg/kg/day)-1	AVERAGE WEIGHT:	0.011	DERMAL ABS. FACT. #1 (%):	DERMAL ABS. FACT. #2 (%):	0.011	70	20
	1	37176.4	(ug/hour)	297.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
	2	36145.0	(ug/hour)	288.96	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
3	35113.9	(ug/hour)	280.51	280.51	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	15.300/45/90				
4	34082.8	(ug/hour)	272.06	272.06	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	30				
5	33051.4	(ug/hour)	264.41	264.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	70				
6	32020.2	(ug/hour)	256.18	256.18	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	307				
7	30958.9	(ug/hour)	247.91	247.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
8	29957.7	(ug/hour)	239.66	239.66	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
9	28928.5	(ug/hour)	231.41	231.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
10	27895.2	(ug/hour)	223.16	223.16	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
11	26864.0	(ug/hour)	214.91	214.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
12	25832.7	(ug/hour)	206.66	206.66	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
13	24801.5	(ug/hour)	198.41	198.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
14	23770.3	(ug/hour)	190.16	190.16	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
15	22739.0	(ug/hour)	181.91	181.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
16	21707.8	(ug/hour)	173.66	173.66	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
17	20676.6	(ug/hour)	165.41	165.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
18	19645.3	(ug/hour)	157.16	157.16	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
19	18614.1	(ug/hour)	148.91	148.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
20	17582.8	(ug/hour)	140.66	140.66	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
21	16551.6	(ug/hour)	132.41	132.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
22	15520.4	(ug/hour)	124.16	124.16	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
23	14489.1	(ug/hour)	115.91	115.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
24	13457.9	(ug/hour)	107.66	107.66	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
25	12426.6	(ug/hour)	99.41	99.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
26	11395.4	(ug/hour)	91.16	91.16	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
27	10364.2	(ug/hour)	82.91	82.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
28	9332.9	(ug/hour)	74.66	74.66	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
29	8301.7	(ug/hour)	66.41	66.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
30	7270.5	(ug/hour)	58.16	58.16	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
31	6239.2	(ug/hour)	49.91	49.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
32	5208.0	(ug/hour)	41.66	41.66	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
33	4176.7	(ug/hour)	33.41	33.41	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
34	3145.5	(ug/hour)	25.16	25.16	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					
35	2114.3	(ug/hour)	16.91	16.91	5.3535	10.7069	16.1504	21.5338	26.9112	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS					

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

STUDY DESCRIPTION	DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					(mg/day)					DERMAL ABSORPTION FACTOR #1					AVERAGE WEIGHT:				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS
TOTAL INSIDE	0	32,07.6	(ug/hour)	305.00	1,784.3	3,489.0	5,303.5	7,177.9	9,052.3	2,820E-05	2,820E-05	2,820E-05	2,820E-05	2,820E-05	2,820E-05	2,820E-05	2,820E-05	2,820E-05	2,820E-05
	1	37,17.4	(ug/hour)	297.41	1,748.1	3,482.1	5,238.2	6,994.2	8,749.3	1,410E-05	1,410E-05	1,410E-05	1,410E-05	1,410E-05	1,410E-05	1,410E-05	1,410E-05	1,410E-05	1,410E-05
	2	35,145.1	(ug/hour)	289.16	1,697.6	3,362.2	5,062.9	6,769.5	8,476.8	1,372E-05	1,372E-05	1,372E-05	1,372E-05	1,372E-05	1,372E-05	1,372E-05	1,372E-05	1,372E-05	1,372E-05
	3	35,113.9	(ug/hour)	280.91	1,648.2	3,298.4	4,947.6	6,597.7	8,247.9	1,298E-05	1,298E-05	1,298E-05	1,298E-05	1,298E-05	1,298E-05	1,298E-05	1,298E-05	1,298E-05	1,298E-05
	4	34,932.8	(ug/hour)	272.66	1,600.8	3,231.3	4,882.3	6,532.4	8,182.9	1,250E-05	1,250E-05	1,250E-05	1,250E-05	1,250E-05	1,250E-05	1,250E-05	1,250E-05	1,250E-05	1,250E-05
	5	33,051.4	(ug/hour)	264.41	1,552.3	3,164.9	4,817.0	6,462.1	8,107.5	1,202E-05	1,202E-05	1,202E-05	1,202E-05	1,202E-05	1,202E-05	1,202E-05	1,202E-05	1,202E-05	1,202E-05
	6	32,020.2	(ug/hour)	256.16	1,503.9	3,097.8	4,751.8	6,396.9	8,042.6	1,154E-05	1,154E-05	1,154E-05	1,154E-05	1,154E-05	1,154E-05	1,154E-05	1,154E-05	1,154E-05	1,154E-05
	7	30,988.9	(ug/hour)	247.91	1,455.4	2,990.8	4,686.7	6,331.8	8,000.0	1,106E-05	1,106E-05	1,106E-05	1,106E-05	1,106E-05	1,106E-05	1,106E-05	1,106E-05	1,106E-05	1,106E-05
	8	29,957.7	(ug/hour)	239.66	1,407.0	2,914.0	4,621.0	6,276.1	8,000.0	1,058E-05	1,058E-05	1,058E-05	1,058E-05	1,058E-05	1,058E-05	1,058E-05	1,058E-05	1,058E-05	1,058E-05
	9	28,926.5	(ug/hour)	231.41	1,358.6	2,837.2	4,555.3	6,261.3	8,000.0	1,010E-05	1,010E-05	1,010E-05	1,010E-05	1,010E-05	1,010E-05	1,010E-05	1,010E-05	1,010E-05	1,010E-05
	10	27,895.2	(ug/hour)	223.16	1,310.1	2,762.4	4,480.4	6,246.4	8,000.0	9,62E-06	9,62E-06	9,62E-06	9,62E-06	9,62E-06	9,62E-06	9,62E-06	9,62E-06	9,62E-06	9,62E-06
	11	26,864.0	(ug/hour)	214.91	1,261.7	2,692.4	4,405.5	6,231.5	8,000.0	9,14E-06	9,14E-06	9,14E-06	9,14E-06	9,14E-06	9,14E-06	9,14E-06	9,14E-06	9,14E-06	9,14E-06
	12	25,832.7	(ug/hour)	206.66	1,213.3	2,623.6	4,330.6	6,216.6	8,000.0	8,66E-06	8,66E-06	8,66E-06	8,66E-06	8,66E-06	8,66E-06	8,66E-06	8,66E-06	8,66E-06	8,66E-06
	13	24,801.5	(ug/hour)	198.41	1,164.9	2,554.7	4,255.7	6,201.7	8,000.0	8,18E-06	8,18E-06	8,18E-06	8,18E-06	8,18E-06	8,18E-06	8,18E-06	8,18E-06	8,18E-06	8,18E-06
	14	23,770.3	(ug/hour)	190.16	1,116.4	2,485.8	4,180.8	6,186.8	8,000.0	7,70E-06	7,70E-06	7,70E-06	7,70E-06	7,70E-06	7,70E-06	7,70E-06	7,70E-06	7,70E-06	7,70E-06
	15	22,739.0	(ug/hour)	181.91	1,068.0	2,416.9	4,105.9	6,171.9	8,000.0	7,22E-06	7,22E-06	7,22E-06	7,22E-06	7,22E-06	7,22E-06	7,22E-06	7,22E-06	7,22E-06	7,22E-06
	16	21,707.8	(ug/hour)	173.66	1,020.5	2,347.0	4,031.0	6,157.0	8,000.0	6,74E-06	6,74E-06	6,74E-06	6,74E-06	6,74E-06	6,74E-06	6,74E-06	6,74E-06	6,74E-06	6,74E-06
	17	20,676.6	(ug/hour)	165.41	973.0	2,277.1	3,956.1	6,142.1	8,000.0	6,26E-06	6,26E-06	6,26E-06	6,26E-06	6,26E-06	6,26E-06	6,26E-06	6,26E-06	6,26E-06	6,26E-06
	18	19,645.3	(ug/hour)	157.16	925.5	2,207.2	3,881.2	6,127.2	8,000.0	5,78E-06	5,78E-06	5,78E-06	5,78E-06	5,78E-06	5,78E-06	5,78E-06	5,78E-06	5,78E-06	5,78E-06
	19	18,614.1	(ug/hour)	148.91	878.0	2,137.3	3,806.3	6,112.3	8,000.0	5,30E-06	5,30E-06	5,30E-06	5,30E-06	5,30E-06	5,30E-06	5,30E-06	5,30E-06	5,30E-06	5,30E-06
	20	17,582.8	(ug/hour)	140.66	830.5	2,067.4	3,731.4	6,097.4	8,000.0	4,82E-06	4,82E-06	4,82E-06	4,82E-06	4,82E-06	4,82E-06	4,82E-06	4,82E-06	4,82E-06	4,82E-06
	21	16,551.6	(ug/hour)	132.41	783.0	1,997.5	3,656.5	6,082.5	8,000.0	4,34E-06	4,34E-06	4,34E-06	4,34E-06	4,34E-06	4,34E-06	4,34E-06	4,34E-06	4,34E-06	4,34E-06
	22	15,520.4	(ug/hour)	124.16	735.5	1,927.6	3,581.6	6,067.6	8,000.0	3,86E-06	3,86E-06	3,86E-06	3,86E-06	3,86E-06	3,86E-06	3,86E-06	3,86E-06	3,86E-06	3,86E-06
	23	14,489.1	(ug/hour)	115.91	688.0	1,857.7	3,506.7	6,052.7	8,000.0	3,38E-06	3,38E-06	3,38E-06	3,38E-06	3,38E-06	3,38E-06	3,38E-06	3,38E-06	3,38E-06	3,38E-06
	24	13,457.9	(ug/hour)	107.66	640.5	1,787.8	3,431.8	6,037.8	8,000.0	2,90E-06	2,90E-06	2,90E-06	2,90E-06	2,90E-06	2,90E-06	2,90E-06	2,90E-06	2,90E-06	2,90E-06
	25	12,426.6	(ug/hour)	99.41	593.0	1,717.9	3,356.9	6,022.9	8,000.0	2,42E-06	2,42E-06	2,42E-06	2,42E-06	2,42E-06	2,42E-06	2,42E-06	2,42E-06	2,42E-06	2,42E-06
	26	11,395.4	(ug/hour)	91.16	545.5	1,648.0	3,282.0	6,008.0	8,000.0	1,94E-06	1,94E-06	1,94E-06	1,94E-06	1,94E-06	1,94E-06	1,94E-06	1,94E-06	1,94E-06	1,94E-06
	27	10,364.2	(ug/hour)	82.91	498.0	1,578.1	3,207.1	6,000.0	8,000.0	1,46E-06	1,46E-06	1,46E-06	1,46E-06	1,46E-06	1,46E-06	1,46E-06	1,46E-06	1,46E-06	1,46E-06
	28	9,332.9	(ug/hour)	74.66	450.5	1,508.2	3,132.2	6,000.0	8,000.0	9,80E-07	9,80E-07	9,80E-07	9,80E-07	9,80E-07	9,80E-07	9,80E-07	9,80E-07	9,80E-07	9,80E-07
	29	8,301.7	(ug/hour)	66.41	403.0	1,438.3	3,057.3	6,000.0	8,000.0	9,32E-07	9,32E-07	9,32E-07	9,32E-07	9,32E-07	9,32E-07	9,32E-07	9,32E-07	9,32E-07	9,32E-07
	30	7,270.5	(ug/hour)	58.16	355.5	1,368.4	2,982.4	6,000.0	8,000.0	8,84E-07	8,84E-07	8,84E-07	8,84E-07	8,84E-07	8,84E-07	8,84E-07	8,84E-07	8,84E-07	8,84E-07
	31	6,239.2	(ug/hour)	49.91	308.0	1,298.5	2,907.5	6,000.0	8,000.0	8,36E-07	8,36E-07	8,36E-07	8,36E-07	8,36E-07	8,36E-07	8,36E-07	8,36E-07	8,36E-07	8,36E-07
	32	5,208.0	(ug/hour)	41.66	260.5	1,228.6	2,832.6	6,000.0	8,000.0	7,88E-07	7,88E-07	7,88E-07	7,88E-07	7,88E-07	7,88E-07	7,88E-07	7,88E-07	7,88E-07	7,88E-07
	33	4,176.7	(ug/hour)	33.41	213.0	1,158.7	2,757.7	6,000.0	8,000.0	7,40E-07	7,40E-07	7,40E-07	7,40E-07	7,40E-07	7,40E-07	7,40E-07	7,40E-07	7,40E-07	7,40E-07
	34	3,145.5	(ug/hour)	25.16	165.5	1,088.8	2,682.8	6,000.0	8,000.0	6,92E-07	6,92E-07	6,92E-07	6,92E-07	6,92E-07	6,92E-07	6,92E-07	6,92E-07	6,92E-07	6,92E-07
	35	2,114.3	(ug/hour)	16.91	118.0	1,018.9	2,607.9	6,000.0	8,000.0	6,44E-07	6,44E-07	6,44E-07	6,44E-07	6,44E-07	6,44E-07	6,44E-07	6,44E-07	6,44E-07	6,44E-07

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/day) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 32 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1)] * [DERMAL ABS. FACTOR(100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
TOTAL INSIDE	0	38207.8	(ug/hour)	305.66	3.5890	7.1776	10.7668	14.3559	2.820E-05	5.640E-05	8.460E-05	1.128E-04	1.416E-04	1.704E-04	5.940E-06	1.128E-06	1.680E-06	2.20E-06	0.011
	1	37178.4	(ug/hour)	297.41	3.4921	6.9842	10.4763	13.9684	2.744E-05	5.488E-05	8.231E-05	1.098E-04	1.376E-04	1.654E-04	5.488E-06	1.098E-06	1.654E-06	2.20E-06	70
	2	36145.1	(ug/hour)	286.16	3.3952	6.7905	10.1857	13.5909	2.668E-05	5.336E-05	8.003E-05	1.067E-04	1.345E-04	1.623E-04	5.336E-06	1.067E-06	1.623E-06	2.13E-06	5
	3	35113.9	(ug/hour)	280.91	3.2984	6.5957	9.8951	13.1935	2.592E-05	5.183E-05	7.775E-05	1.037E-04	1.315E-04	1.593E-04	5.183E-06	1.037E-06	1.593E-06	2.07E-06	1
	4	34082.8	(ug/hour)	272.86	3.2015	6.4030	9.8045	12.8000	2.515E-05	5.031E-05	7.518E-05	1.008E-04	1.286E-04	1.564E-04	5.031E-06	1.008E-06	1.564E-06	2.01E-06	
	5	33051.4	(ug/hour)	264.41	3.1046	6.2083	9.7139	12.4185	2.439E-05	4.879E-05	7.316E-05	9.737E-05	1.255E-04	1.533E-04	4.879E-06	9.737E-06	1.45E-06	1.95E-06	
	6	32020.2	(ug/hour)	256.16	3.0078	6.0155	9.5233	12.0311	2.363E-05	4.728E-05	7.000E-05	9.453E-05	1.233E-04	1.511E-04	4.728E-06	9.453E-06	1.42E-06	1.89E-06	
	7	30988.9	(ug/hour)	247.81	2.9109	5.8216	9.3277	11.6438	2.287E-05	4.574E-05	6.841E-05	9.148E-05	1.192E-04	1.470E-04	4.574E-06	9.148E-06	1.37E-06	1.83E-06	
	8	29957.7	(ug/hour)	238.66	2.8140	5.6281	9.1421	11.2561	2.211E-05	4.422E-05	6.633E-05	8.844E-05	1.164E-04	1.442E-04	4.422E-06	8.844E-06	1.33E-06	1.77E-06	
	9	28926.5	(ug/hour)	231.41	2.7172	5.4343	8.9515	10.8666	2.136E-05	4.270E-05	6.400E-05	8.540E-05	1.136E-04	1.416E-04	4.270E-06	8.540E-06	1.30E-06	1.71E-06	
	10	27895.2	(ug/hour)	223.16	2.6203	5.2406	8.7600	10.4812	2.060E-05	4.118E-05	6.219E-05	8.320E-05	1.106E-04	1.386E-04	4.118E-06	8.320E-06	1.24E-06	1.66E-06	
	11	26864.0	(ug/hour)	214.91	2.5234	5.0468	8.5703	10.0937	1.983E-05	3.965E-05	5.948E-05	7.931E-05	1.076E-04	1.356E-04	3.965E-06	7.931E-06	1.19E-06	1.59E-06	
	12	25832.7	(ug/hour)	206.66	2.4266	4.8531	8.3797	9.7082	1.907E-05	3.813E-05	5.732E-05	7.639E-05	1.049E-04	1.329E-04	3.813E-06	7.639E-06	1.14E-06	1.53E-06	
	13	24801.5	(ug/hour)	198.41	2.3297	4.6594	8.1885	9.3186	1.830E-05	3.661E-05	5.491E-05	7.322E-05	1.022E-04	1.302E-04	3.661E-06	7.322E-06	1.10E-06	1.46E-06	
	14	23770.3	(ug/hour)	190.16	2.2328	4.4656	8.0005	8.9313	1.754E-05	3.509E-05	5.303E-05	7.017E-05	9.852E-05	1.255E-04	3.509E-06	7.017E-06	1.05E-06	1.40E-06	
	15	22739.0	(ug/hour)	181.91	2.1360	4.2719	7.8079	8.5438	1.678E-05	3.357E-05	5.003E-05	6.713E-05	9.406E-05	1.216E-04	3.357E-06	6.713E-06	1.01E-06	1.34E-06	
	16	21707.8	(ug/hour)	173.66	2.0391	4.0782	7.6173	8.1564	1.602E-05	3.204E-05	4.808E-05	6.406E-05	8.911E-05	1.177E-04	3.204E-06	6.406E-06	9.81E-06	1.29E-06	
	17	20676.6	(ug/hour)	165.41	1.9422	3.8844	7.4267	7.7689	1.526E-05	3.052E-05	4.579E-05	6.104E-05	8.508E-05	1.158E-04	3.052E-06	6.104E-06	9.10E-06	1.22E-06	
	18	19645.3	(ug/hour)	157.16	1.8454	3.6907	7.2365	7.3814	1.450E-05	2.900E-05	4.390E-05	5.800E-05	8.200E-05	1.140E-04	2.900E-06	5.800E-06	8.70E-06	1.16E-06	
	19	18614.1	(ug/hour)	148.91	1.7485	3.4970	7.0455	6.9939	1.374E-05	2.748E-05	4.181E-05	5.486E-05	7.846E-05	1.120E-04	2.748E-06	5.486E-06	8.24E-06	1.10E-06	
	20	17582.6	(ug/hour)	140.66	1.6518	3.3032	6.8548	6.6005	1.298E-05	2.595E-05	3.983E-05	5.191E-05	7.496E-05	1.100E-04	2.595E-06	5.191E-06	7.79E-06	1.04E-06	
	21	16551.8	(ug/hour)	132.41	1.5547	3.1085	6.6642	6.2180	1.222E-05	2.443E-05	3.809E-05	4.896E-05	6.896E-05	9.777E-05	2.443E-06	4.896E-06	7.33E-06	9.77E-06	
	22	15520.4	(ug/hour)	124.16	1.4578	2.9159	6.4736	5.8315	1.146E-05	2.291E-05	3.639E-05	4.582E-05	6.582E-05	9.582E-05	2.291E-06	4.582E-06	6.97E-06	9.19E-06	
	23	14489.1	(ug/hour)	115.91	1.3610	2.7220	6.2830	5.4441	1.069E-05	2.136E-05	3.508E-05	4.277E-05	6.277E-05	9.277E-05	2.136E-06	4.277E-06	6.42E-06	8.59E-06	
	24	13457.9	(ug/hour)	107.66	1.2641	2.5283	6.0918	5.0568	9.933E-06	1.997E-05	3.390E-05	3.973E-05	5.973E-05	8.973E-05	1.997E-06	3.973E-06	5.90E-06	7.99E-06	
	25	12426.6	(ug/hour)	99.41	1.1673	2.3346	5.9018	4.6691	9.171E-06	1.834E-05	3.270E-05	3.698E-05	5.698E-05	8.698E-05	1.834E-06	3.698E-06	5.50E-06	7.34E-06	
	26	11395.4	(ug/hour)	91.16	1.0704	2.1408	5.7122	4.2816	8.410E-06	1.682E-05	3.052E-05	3.344E-05	5.344E-05	8.344E-05	1.682E-06	3.344E-06	5.05E-06	6.73E-06	
	27	10364.2	(ug/hour)	82.91	0.9735	1.9471	5.5208	3.8942	7.649E-06	1.530E-05	2.829E-05	3.000E-05	5.000E-05	7.900E-05	1.530E-06	3.000E-06	4.50E-06	6.12E-06	
	28	9332.9	(ug/hour)	74.66	0.8767	1.7533	5.3308	3.5077	6.888E-06	1.378E-05	2.609E-05	2.769E-05	4.769E-05	7.669E-05	1.378E-06	2.769E-06	4.13E-06	5.51E-06	
	29	8301.7	(ug/hour)	66.41	0.7798	1.5596	5.1404	3.1192	6.127E-06	1.225E-05	2.451E-05	2.611E-05	4.611E-05	7.511E-05	1.225E-06	2.451E-06	3.69E-06	4.90E-06	
	30	7270.5	(ug/hour)	58.16	0.6828	1.3658	4.9498	2.7318	5.366E-06	1.073E-05	2.140E-05	2.300E-05	4.300E-05	7.200E-05	1.073E-06	2.300E-06	3.42E-06	4.59E-06	
	31	6239.2	(ug/hour)	49.91	0.5861	1.1721	4.7592	2.3443	4.605E-06	9.210E-06	1.810E-05	1.940E-05	3.940E-05	6.840E-05	9.210E-07	1.940E-06	2.79E-06	3.69E-06	
	32	5208.0	(ug/hour)	41.66	0.4892	0.9794	4.5678	1.9568	3.844E-06	7.687E-06	1.535E-05	1.635E-05	3.335E-05	6.235E-05	7.687E-07	1.635E-06	2.31E-06	3.07E-06	
	33	4178.7	(ug/hour)	33.41	0.3923	0.7947	4.3770	1.5693	3.083E-06	6.169E-06	1.233E-05	1.333E-05	2.633E-05	5.533E-05	6.169E-07	1.333E-06	1.95E-06	2.47E-06	
	34	3145.5	(ug/hour)	25.16	0.2955	0.5909	4.1864	1.1819	2.322E-06	4.643E-06	9.286E-06	9.286E-06	1.828E-05	4.843E-06	9.286E-07	1.828E-06	2.69E-06	3.49E-06	
	35	2114.3	(ug/hour)	16.91	0.1988	0.3972	4.0008	0.7944	1.560E-06	3.121E-06	6.242E-06	6.242E-06	1.248E-05	3.121E-07	6.242E-07	9.36E-07	1.35E-06	1.75E-06	

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/265 days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

STUDY DESCRIPTION	DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
				(mg/day)					DERMAL ABSORPTION FACTOR #1	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #2	15 DAYS	30 DAYS	45 DAYS	60 DAYS
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS										
TOTAL INSIDE	0	35,207.6	(ug/hour)	5.3535	10.7069	16.1504	21.5338	4.220E-05	1.200E-04	1.802E-04	2.404E-04	3.006E-04	8.400E-06	1.260E-05	1.890E-05	2.54E-05	3.38E-05	0.011
	1	37,178.4	(ug/hour)	5.2892	10.5783	15.7145	20.9528	4.110E-05	1.235E-04	1.852E-04	2.479E-04	3.106E-04	8.231E-06	1.245E-05	1.868E-05	2.49E-05	3.29E-05	70
	2	36,145.1	(ug/hour)	5.0929	10.1857	15.2786	20.3714	4.002E-05	8.003E-05	1.200E-04	1.600E-04	2.000E-04	8.003E-06	1.200E-05	1.600E-05	2.00E-05	2.40E-05	5
	3	35,113.9	(ug/hour)	4.9478	9.8951	14.8427	19.7902	3.887E-05	7.775E-05	1.166E-04	1.555E-04	1.944E-04	7.775E-06	1.166E-05	1.555E-05	1.94E-05	2.33E-05	1
	4	34,082.6	(ug/hour)	4.8023	9.6045	14.4068	19.2000	3.773E-05	7.546E-05	1.132E-04	1.509E-04	1.886E-04	7.546E-06	1.132E-05	1.509E-05	1.88E-05	2.26E-05	
	5	33,051.4	(ug/hour)	4.6570	9.3138	13.9708	18.6278	3.669E-05	7.338E-05	1.098E-04	1.464E-04	1.831E-04	7.338E-06	1.098E-05	1.464E-05	1.83E-05	2.20E-05	
	6	32,020.2	(ug/hour)	4.5118	9.0233	13.5348	18.0468	3.545E-05	7.090E-05	1.063E-04	1.418E-04	1.785E-04	7.090E-06	1.063E-05	1.418E-05	1.78E-05	2.13E-05	
	7	30,988.9	(ug/hour)	4.3663	8.7327	13.0880	17.4654	3.431E-05	6.861E-05	1.029E-04	1.372E-04	1.727E-04	6.861E-06	1.029E-05	1.372E-05	1.72E-05	2.08E-05	
	8	29,957.7	(ug/hour)	4.2210	8.4421	12.6431	16.8942	3.317E-05	6.633E-05	9.950E-05	1.327E-04	1.676E-04	6.633E-06	9.950E-05	1.327E-05	1.67E-05	2.02E-05	
	9	28,926.5	(ug/hour)	4.0757	8.1515	12.2072	16.3200	3.202E-05	6.404E-05	9.607E-05	1.281E-04	1.629E-04	6.404E-06	9.607E-05	1.281E-05	1.62E-05	1.96E-05	
	10	27,895.2	(ug/hour)	3.9304	7.8606	11.7813	15.7513	3.088E-05	6.176E-05	9.265E-05	1.255E-04	1.593E-04	6.176E-06	9.265E-05	1.255E-05	1.59E-05	1.90E-05	
	11	26,864.0	(ug/hour)	3.7851	7.5700	11.3554	15.1821	2.974E-05	5.948E-05	8.922E-05	1.180E-04	1.500E-04	5.948E-06	8.922E-05	1.180E-05	1.49E-05	1.83E-05	
	12	25,832.7	(ug/hour)	3.6398	7.2797	10.9183	14.5994	2.860E-05	5.720E-05	8.590E-05	1.144E-04	1.444E-04	5.720E-06	8.590E-05	1.144E-05	1.44E-05	1.72E-05	
	13	24,801.5	(ug/hour)	3.4945	6.9891	10.4836	13.9781	2.746E-05	5.491E-05	8.237E-05	1.090E-04	1.390E-04	5.491E-06	8.237E-05	1.090E-05	1.39E-05	1.66E-05	
	14	23,770.3	(ug/hour)	3.3492	6.6985	10.0477	13.3669	2.632E-05	5.263E-05	7.885E-05	1.033E-04	1.333E-04	5.263E-06	7.885E-05	1.033E-05	1.33E-05	1.58E-05	
	15	22,739.0	(ug/hour)	3.2039	6.4079	9.6118	12.7543	2.517E-05	5.035E-05	7.532E-05	9.815E-05	1.275E-04	5.035E-06	7.532E-05	9.815E-05	1.27E-05	1.51E-05	
	16	21,707.8	(ug/hour)	3.0586	6.1173	9.1769	12.1425	2.403E-05	4.806E-05	7.210E-05	9.315E-05	1.210E-04	4.806E-06	7.210E-05	9.31E-05	1.21E-05	1.44E-05	
	17	20,676.6	(ug/hour)	2.9133	5.8267	8.7400	11.5303	2.289E-05	4.578E-05	6.907E-05	8.815E-05	1.153E-04	4.578E-06	6.907E-05	8.81E-05	1.15E-05	1.37E-05	
	18	19,645.3	(ug/hour)	2.7680	5.5361	8.3041	10.9171	2.175E-05	4.350E-05	6.525E-05	8.702E-05	1.102E-04	4.350E-06	6.52E-05	8.70E-05	1.10E-05	1.30E-05	
	19	18,614.1	(ug/hour)	2.6227	5.2455	7.8682	10.3009	2.061E-05	4.121E-05	6.182E-05	8.243E-05	1.051E-04	4.121E-06	6.18E-05	8.24E-05	1.05E-05	1.24E-05	
	20	17,582.8	(ug/hour)	2.4774	4.9548	7.4323	9.6907	1.947E-05	3.893E-05	5.940E-05	7.768E-05	1.000E-04	3.893E-06	5.94E-05	7.76E-05	1.00E-05	1.19E-05	
	21	16,551.6	(ug/hour)	2.3321	4.6642	6.9984	9.0785	1.832E-05	3.665E-05	5.497E-05	7.330E-05	9.373E-05	3.665E-06	5.49E-05	7.33E-05	9.37E-05	1.10E-05	
	22	15,520.4	(ug/hour)	2.1869	4.3736	6.5065	8.4743	1.718E-05	3.436E-05	5.153E-05	6.973E-05	8.873E-05	3.436E-06	5.15E-05	6.97E-05	8.87E-05	1.00E-05	
	23	14,489.1	(ug/hour)	2.0415	4.0830	6.0148	7.8681	1.604E-05	3.208E-05	4.812E-05	6.418E-05	8.18E-05	3.208E-06	4.81E-05	6.41E-05	8.18E-05	9.25E-05	
	24	13,457.9	(ug/hour)	1.8962	3.7924	5.5837	7.2549	1.490E-05	2.980E-05	4.470E-05	5.980E-05	7.68E-05	2.980E-06	4.47E-05	5.98E-05	7.68E-05	8.94E-05	
	25	12,426.8	(ug/hour)	1.7509	3.5016	5.0527	6.6425	1.376E-05	2.751E-05	4.127E-05	5.500E-05	7.00E-05	2.751E-06	4.12E-05	5.50E-05	7.00E-05	8.25E-05	
	26	11,395.4	(ug/hour)	1.6056	3.2112	4.5168	6.0225	1.262E-05	2.522E-05	3.765E-05	5.046E-05	6.40E-05	2.522E-06	3.76E-05	5.04E-05	6.40E-05	7.57E-05	
	27	10,364.2	(ug/hour)	1.4603	2.9208	4.0308	5.4113	1.147E-05	2.292E-05	3.442E-05	4.590E-05	5.80E-05	2.292E-06	3.44E-05	4.59E-05	5.80E-05	6.80E-05	
	28	9,332.9	(ug/hour)	1.3150	2.6300	3.5450	4.8000	1.033E-05	2.086E-05	3.100E-05	4.133E-05	5.13E-05	2.086E-06	3.10E-05	4.13E-05	5.13E-05	6.20E-05	
	29	8,301.7	(ug/hour)	1.1697	2.3394	3.0501	4.1758	9.191E-06	1.836E-05	2.757E-05	3.678E-05	4.50E-05	1.836E-06	2.75E-05	3.67E-05	4.50E-05	5.51E-05	
	30	7,270.5	(ug/hour)	1.0244	2.0488	2.5732	3.5164	8.049E-06	1.610E-05	2.415E-05	3.220E-05	4.03E-05	1.610E-06	2.41E-05	3.22E-05	4.03E-05	4.83E-05	
	31	6,239.2	(ug/hour)	0.8791	1.7582	2.0373	3.0184	6.907E-06	1.381E-05	2.072E-05	2.760E-05	3.40E-05	1.381E-06	2.07E-05	2.76E-05	3.40E-05	4.14E-05	
	32	5,208.0	(ug/hour)	0.7338	1.4678	1.6784	2.4352	5.766E-06	1.153E-05	1.730E-05	2.308E-05	2.89E-05	1.153E-06	1.73E-05	2.30E-05	2.89E-05	3.48E-05	
	33	4,176.7	(ug/hour)	0.5885	1.1770	1.2859	2.3540	4.624E-06	9.248E-06	1.387E-05	1.850E-05	2.30E-05	9.248E-07	1.38E-05	1.85E-05	2.30E-05	2.77E-05	
	34	3,145.5	(ug/hour)	0.4432	0.8664	1.3286	1.7728	3.482E-06	6.965E-06	1.045E-05	1.380E-05	1.77E-05	6.965E-07	1.04E-05	1.38E-05	1.77E-05	2.08E-05	
	35	2,114.3	(ug/hour)	0.2878	0.5656	0.8637	1.1818	2.341E-06	4.681E-06	7.022E-06	9.360E-06	1.18E-05	4.681E-07	7.02E-06	9.36E-06	1.18E-05	1.40E-05	

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (0.07 +/- 0.52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hr)/AVG. LIFETIME (yr)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT (kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS									
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS
TOTAL INSIDE	0	39130.7	(ug/hour)	313.05	1.8378	3.8737	5.5195	7.2614	8.894E-04	1.444E-04	5.778E-04	8.894E-04	1.155E-03	1.444E-04	1.444E-04	4.33E-04	4.33E-04	5.78E-04	5.78E-04
	1	37763.8	(ug/hour)	302.11	1.7736	3.5473	5.3209	7.0845	8.691E-04	1.391E-04	5.574E-04	8.691E-04	1.115E-03	1.391E-04	1.391E-04	4.10E-04	4.10E-04	5.37E-04	5.37E-04
	2	36396.5	(ug/hour)	291.17	1.7084	3.4186	5.1283	6.8377	8.066E-04	1.266E-04	5.372E-04	8.066E-04	1.034E-03	1.266E-04	1.266E-04	4.00E-04	4.00E-04	5.17E-04	5.17E-04
	3	35029.5	(ug/hour)	280.24	1.6452	3.2904	4.9357	6.5908	7.794E-04	1.171E-04	5.171E-04	7.794E-04	9.89E-04	1.171E-04	1.171E-04	3.86E-04	3.86E-04	4.97E-04	4.97E-04
	4	33662.4	(ug/hour)	269.30	1.5810	3.1620	4.7430	6.3240	7.433E-04	1.086E-04	4.986E-04	7.433E-04	9.38E-04	1.086E-04	1.086E-04	3.73E-04	3.73E-04	4.87E-04	4.87E-04
	5	32295.3	(ug/hour)	258.36	1.5168	3.0336	4.5904	6.0672	7.131E-04	1.034E-04	4.806E-04	7.131E-04	8.89E-04	1.034E-04	1.034E-04	3.58E-04	3.58E-04	4.77E-04	4.77E-04
	6	30928.2	(ug/hour)	247.43	1.4526	2.9052	4.3578	5.8104	6.848E-04	9.131E-04	4.596E-04	6.848E-04	8.53E-04	1.141E-04	1.141E-04	3.42E-04	3.42E-04	4.57E-04	4.57E-04
	7	29561.2	(ug/hour)	236.48	1.3884	2.7768	4.1662	5.5538	6.548E-04	8.727E-04	4.364E-04	6.548E-04	8.22E-04	1.091E-04	1.091E-04	3.27E-04	3.27E-04	4.36E-04	4.36E-04
	8	28194.1	(ug/hour)	225.55	1.3242	2.6494	3.9728	5.2887	6.243E-04	8.422E-04	4.182E-04	6.243E-04	7.83E-04	1.040E-04	1.040E-04	3.12E-04	3.12E-04	4.16E-04	4.16E-04
	9	26827.0	(ug/hour)	214.82	1.2600	2.5200	3.7789	5.0398	5.940E-04	8.040E-04	3.990E-04	5.940E-04	7.53E-04	9.80E-05	9.80E-05	2.97E-04	2.97E-04	3.86E-04	3.86E-04
	10	25459.9	(ug/hour)	203.68	1.1958	2.3915	3.5873	4.7831	5.637E-04	7.736E-04	3.796E-04	5.637E-04	7.13E-04	9.38E-05	9.38E-05	2.82E-04	2.82E-04	3.76E-04	3.76E-04
	11	24092.8	(ug/hour)	192.74	1.1316	2.2831	3.3947	4.5282	5.335E-04	7.115E-04	3.596E-04	5.335E-04	6.70E-04	8.89E-05	8.89E-05	2.67E-04	2.67E-04	3.56E-04	3.56E-04
	12	22725.8	(ug/hour)	181.81	1.0674	2.1347	3.2021	4.2694	5.033E-04	6.709E-04	3.406E-04	5.033E-04	6.30E-04	8.34E-05	8.34E-05	2.52E-04	2.52E-04	3.34E-04	3.34E-04
	13	21358.7	(ug/hour)	170.87	1.0031	2.0083	3.0084	4.0128	4.728E-04	6.306E-04	3.153E-04	4.728E-04	5.80E-04	7.80E-05	7.80E-05	2.38E-04	2.38E-04	3.15E-04	3.15E-04
	14	19981.8	(ug/hour)	159.83	0.9390	1.8778	2.8168	3.7558	4.428E-04	5.806E-04	2.891E-04	4.428E-04	5.49E-04	7.37E-05	7.37E-05	2.21E-04	2.21E-04	2.89E-04	2.89E-04
	15	18624.5	(ug/hour)	148.00	0.8747	1.7495	2.6242	3.4889	4.124E-04	5.496E-04	2.746E-04	4.124E-04	5.08E-04	6.87E-05	6.87E-05	2.06E-04	2.06E-04	2.75E-04	2.75E-04
	16	17257.4	(ug/hour)	136.00	0.8105	1.6211	2.4318	3.2621	3.821E-04	5.086E-04	2.547E-04	3.821E-04	4.68E-04	6.30E-05	6.30E-05	1.91E-04	1.91E-04	2.55E-04	2.55E-04
	17	15890.4	(ug/hour)	124.12	0.7463	1.4826	2.2380	2.9853	3.518E-04	4.681E-04	2.346E-04	3.518E-04	4.28E-04	5.89E-05	5.89E-05	1.76E-04	1.76E-04	2.38E-04	2.38E-04
	18	14523.3	(ug/hour)	118.19	0.6821	1.3642	2.0463	2.784	3.218E-04	4.286E-04	2.144E-04	3.218E-04	3.84E-04	5.36E-05	5.36E-05	1.61E-04	1.61E-04	2.14E-04	2.14E-04
	19	13156.2	(ug/hour)	105.25	0.6179	1.2568	1.8537	2.4716	2.913E-04	3.846E-04	1.942E-04	2.913E-04	3.40E-04	4.85E-05	4.85E-05	1.46E-04	1.46E-04	1.94E-04	1.94E-04
	20	11789.1	(ug/hour)	94.31	0.5537	1.1074	1.6811	2.2148	2.610E-04	3.406E-04	1.746E-04	2.610E-04	3.07E-04	4.35E-05	4.35E-05	1.31E-04	1.31E-04	1.74E-04	1.74E-04
	21	10422.1	(ug/hour)	83.38	0.4895	0.9790	1.4885	1.8580	2.308E-04	3.077E-04	1.536E-04	2.308E-04	2.77E-04	3.84E-05	3.84E-05	1.16E-04	1.16E-04	1.54E-04	1.54E-04
	22	9055.0	(ug/hour)	72.44	0.4253	0.8506	1.2758	1.7011	2.005E-04	2.872E-04	1.337E-04	2.005E-04	2.47E-04	3.34E-05	3.34E-05	1.00E-04	1.00E-04	1.34E-04	1.34E-04
	23	7687.9	(ug/hour)	61.50	0.3611	0.7222	1.0832	1.4443	1.702E-04	2.270E-04	1.139E-04	1.702E-04	2.17E-04	2.83E-05	2.83E-05	8.91E-05	8.91E-05	1.16E-04	1.16E-04
	24	6320.8	(ug/hour)	50.57	0.2969	0.5937	0.8908	1.1875	1.400E-04	1.899E-04	8.330E-05	1.400E-04	1.69E-04	2.33E-05	2.33E-05	7.00E-05	7.00E-05	9.34E-05	9.34E-05
	25	4953.7	(ug/hour)	39.63	0.2327	0.4653	0.6960	0.9305	1.087E-04	1.482E-04	7.312E-05	1.087E-04	1.29E-04	1.82E-05	1.82E-05	5.40E-05	5.40E-05	7.31E-05	7.31E-05
	26	3566.7	(ug/hour)	28.08	0.1865	0.3738	0.5594	0.738	7.941E-05	1.089E-04	5.294E-05	7.941E-05	8.53E-05	1.34E-05	1.34E-05	3.97E-05	3.97E-05	5.29E-05	5.29E-05
	27	2218.6	(ug/hour)	17.76	0.1042	0.2085	0.3127	0.4170	4.914E-05	6.53E-05	3.278E-05	4.914E-05	5.89E-05	8.18E-06	8.18E-06	2.40E-05	2.40E-05	3.29E-05	3.29E-05
	28	852.5	(ug/hour)	8.82	0.0400	0.0801	0.1201	0.1602	1.888E-05	2.517E-05	1.258E-05	1.888E-05	2.51E-05	3.14E-06	3.14E-06	8.44E-06	8.44E-06	1.29E-05	1.29E-05
	29	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	30	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	31	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	32	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	33	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	34	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	35	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/hour tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 (days))] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * 0.1*(mg/kg/day-1)]/[BODY WEIGHT(kg)]

PPA SUPPORT TASK 2110.003 VERSAR INC. 8/15/03 JLD REVIEW OF CHLOROTHALONIL FOJAR DISLOSGEABLE RESIDUE/EXPOSURE STUDY LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS										EXPOSURE PARAMETERS DAILY WORK HOURS: ANNUAL EXPOSURE (days): TOTAL WORK INTERVAL (hrs): AVERAGE LIFETIME (hrs): AVERAGE PICKING RATE (lb/hour):				TOXICOLOGICAL PARAMETERS CHLOROTHALONIL DT* (mg/kg/day): AVERAGE WEIGHT: DERMAL ABS. FACT. #1 (%): DERMAL ABS. FACT. #2 (%):				
STUDY		EXPOSURE		EXPOSURE		LADE CALCULATIONS				RISK ANALYSIS								
DESCRIPTION	DAY	LEVELS	FACTOR	EXPOSURE (mg/day)	EXPOSURE (ug/hour)	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #2				
TOTAL INSIDE	0	39130.7	(ug/hour)	313.05	3.8757	7.3514	11.0270	14.7027	18.3784	5.779E-04	1.155E-03	1.732E-03	2.310E-03	2.688E-04	5.779E-04	8.66E-04	1.15E-03	
	1	37793.6	(ug/hour)	302.11	3.5473	7.0945	10.6416	14.1861	17.7317	5.574E-04	1.115E-03	1.672E-03	2.230E-03	2.787E-04	5.574E-04	8.36E-04	1.11E-03	
	2	36399.5	(ug/hour)	281.17	3.4186	6.8377	10.2566	13.6754	17.0921	5.372E-04	1.074E-03	1.612E-03	2.149E-03	2.686E-04	5.372E-04	8.06E-04	1.07E-03	
	3	35079.5	(ug/hour)	260.24	3.2904	6.5809	9.8713	13.1618	16.4523	5.171E-04	1.034E-03	1.551E-03	2.068E-03	2.585E-04	5.171E-04	7.78E-04	1.03E-03	
	4	33562.4	(ug/hour)	209.30	3.1620	6.3240	9.4861	12.6461	15.8366	4.966E-04	9.934E-04	1.491E-03	1.969E-03	2.494E-04	4.966E-04	7.45E-04	9.94E-04	
	5	32265.3	(ug/hour)	258.36	3.0336	6.0672	9.1008	12.1344	15.1644	4.767E-04	9.534E-04	1.430E-03	1.907E-03	2.384E-04	4.767E-04	7.15E-04	9.53E-04	
	6	30926.2	(ug/hour)	247.43	2.9052	5.9104	8.7156	11.8206	14.9256	4.565E-04	9.131E-04	1.370E-03	1.826E-03	2.283E-04	4.565E-04	6.85E-04	9.13E-04	
	7	29561.2	(ug/hour)	236.49	2.7766	5.5536	8.3303	11.1071	14.384E-04	4.358E-04	8.777E-04	1.309E-03	1.745E-03	2.182E-04	4.358E-04	6.55E-04	8.73E-04	
	8	28194.1	(ug/hour)	225.55	2.6484	5.2867	7.9451	10.5935	13.882E-04	4.182E-04	8.328E-04	1.248E-03	1.665E-03	2.081E-04	4.182E-04	6.24E-04	8.32E-04	
	9	26427.0	(ug/hour)	214.82	2.5200	5.0369	7.5699	10.0766	13.380E-04	3.946E-04	7.820E-04	1.188E-03	1.584E-03	1.990E-04	3.946E-04	5.84E-04	7.82E-04	
	10	25459.9	(ug/hour)	203.68	2.3915	4.7831	7.1746	9.5682	12.878E-04	3.758E-04	7.518E-04	1.127E-03	1.503E-03	1.879E-04	3.758E-04	5.64E-04	7.52E-04	
	11	24092.8	(ug/hour)	192.74	2.2631	4.5282	6.7894	9.0525	12.376E-04	3.565E-04	7.119E-04	1.067E-03	1.423E-03	1.778E-04	3.565E-04	5.33E-04	7.11E-04	
	12	22725.6	(ug/hour)	181.81	2.1347	4.2694	6.4041	8.5369	11.875E-04	3.355E-04	6.709E-04	1.006E-03	1.342E-03	1.677E-04	3.355E-04	5.03E-04	6.71E-04	
	13	21356.7	(ug/hour)	170.87	2.0063	4.0126	6.0186	8.0252	11.374E-04	3.153E-04	6.309E-04	9.459E-04	1.261E-03	1.579E-04	3.153E-04	4.73E-04	6.31E-04	
	14	19991.6	(ug/hour)	159.83	1.8779	3.7558	5.6336	7.5115	10.873E-04	2.951E-04	5.902E-04	8.835E-04	1.160E-03	1.479E-04	2.951E-04	4.43E-04	5.90E-04	
	15	18624.5	(ug/hour)	149.00	1.7495	3.4969	5.2484	6.9979	10.372E-04	2.749E-04	5.489E-04	8.247E-04	1.100E-03	1.375E-04	2.749E-04	4.12E-04	5.50E-04	
	16	17257.4	(ug/hour)	138.06	1.6211	3.2421	4.8632	6.4842	9.870E-04	2.547E-04	5.099E-04	7.842E-04	1.019E-03	1.274E-04	2.547E-04	3.82E-04	5.09E-04	
	17	15890.4	(ug/hour)	127.12	1.4928	2.9853	4.4779	5.9708	8.970E-04	2.346E-04	4.801E-04	7.037E-04	9.362E-04	1.172E-04	2.346E-04	3.52E-04	4.86E-04	
	18	14523.3	(ug/hour)	116.19	1.3642	2.7264	4.0827	5.4599	8.460E-04	2.144E-04	4.288E-04	6.431E-04	8.575E-04	1.072E-04	2.144E-04	3.22E-04	4.29E-04	
	19	13156.2	(ug/hour)	105.25	1.2358	2.4716	3.7074	4.9432	7.949E-04	1.942E-04	3.894E-04	5.826E-04	7.768E-04	9.710E-05	1.942E-04	2.81E-04	3.86E-04	
	20	11759.1	(ug/hour)	94.31	1.1074	2.2146	3.3222	4.4269	7.438E-04	1.654E-04	3.308E-04	5.221E-04	6.981E-04	8.701E-05	1.654E-04	2.48E-04	3.48E-04	
	21	10422.1	(ug/hour)	83.38	0.9790	1.9590	2.8399	3.9158	6.928E-04	1.446E-04	2.977E-04	4.615E-04	6.154E-04	7.802E-05	1.446E-04	2.16E-04	3.08E-04	
	22	9055.0	(ug/hour)	72.44	0.8506	1.7011	2.5517	3.4023	6.418E-04	1.337E-04	2.673E-04	4.010E-04	5.346E-04	6.803E-05	1.337E-04	2.00E-04	2.87E-04	
	23	7657.9	(ug/hour)	61.50	0.7222	1.4443	2.1665	2.8869	5.910E-04	1.138E-04	2.270E-04	3.404E-04	4.536E-04	5.874E-05	1.138E-04	1.70E-04	2.27E-04	
	24	6320.8	(ug/hour)	50.57	0.5937	1.1875	1.7812	2.3748	5.399E-04	1.026E-04	1.998E-04	2.798E-04	3.732E-04	4.895E-05	1.026E-04	1.40E-04	1.87E-04	
	25	4953.7	(ug/hour)	39.63	0.4653	0.9309	1.3940	1.8613	4.888E-04	9.12E-05	1.492E-04	2.194E-04	2.925E-04	3.696E-05	9.12E-05	1.10E-04	1.48E-04	
	26	3586.7	(ug/hour)	28.99	0.3369	0.6738	1.0107	1.3478	4.378E-04	8.25E-05	1.268E-04	1.866E-04	2.416E-04	3.094E-05	8.25E-05	9.94E-05	1.26E-04	
	27	2218.8	(ug/hour)	17.78	0.2085	0.4170	0.6255	0.8340	3.868E-04	7.37E-05	1.111E-04	1.611E-04	2.111E-04	2.611E-05	7.37E-05	8.81E-05	1.08E-04	
	28	852.5	(ug/hour)	8.82	0.0601	0.1202	0.1802	0.2402	0.3202	1.258E-05	2.517E-05	3.776E-05	5.034E-05	6.292E-06	1.258E-05	1.89E-05	2.52E-05	
	29	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	
	30	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	
	31	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	
	32	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	
	33	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	
	34	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	
	35	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/245 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- RISK = (LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100))/(BODY WEIGHT(kg))

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
TOTAL INSIDE	0	39130.7	(ug/hour)	313.05	5.5135	11.0270	16.5408	22.0541	27.5673	1.733E-03	2.500E-03	3.266E-03	4.032E-03	4.798E-03	5.564E-03	6.330E-03	7.096E-03	7.862E-03	8.628E-03
	1	37763.6	(ug/hour)	302.11	5.3200	10.6418	15.9627	21.2836	26.6045	1.672E-03	2.345E-03	3.018E-03	3.691E-03	4.364E-03	5.037E-03	5.710E-03	6.383E-03	7.056E-03	7.729E-03
	2	36396.5	(ug/hour)	291.17	5.1253	10.2586	15.3848	20.5131	25.6374	1.612E-03	2.210E-03	2.808E-03	3.406E-03	4.004E-03	4.602E-03	5.200E-03	5.798E-03	6.396E-03	6.994E-03
	3	35029.5	(ug/hour)	280.24	4.9357	9.8713	14.8070	19.7428	24.6786	1.551E-03	2.102E-03	2.653E-03	3.204E-03	3.755E-03	4.306E-03	4.857E-03	5.408E-03	5.959E-03	6.510E-03
	4	33662.4	(ug/hour)	269.30	4.7430	9.4861	14.2291	18.9721	23.7070	1.491E-03	2.002E-03	2.553E-03	3.104E-03	3.655E-03	4.206E-03	4.757E-03	5.308E-03	5.859E-03	6.410E-03
	5	32295.3	(ug/hour)	258.36	4.5504	9.1006	13.8512	18.4017	22.9466	1.430E-03	1.941E-03	2.492E-03	3.043E-03	3.594E-03	4.145E-03	4.696E-03	5.247E-03	5.798E-03	6.349E-03
	6	30928.2	(ug/hour)	247.43	4.3578	8.7159	13.0734	17.4312	21.8607	1.370E-03	1.881E-03	2.432E-03	2.983E-03	3.534E-03	4.085E-03	4.636E-03	5.187E-03	5.738E-03	6.289E-03
	7	29581.2	(ug/hour)	236.48	4.1652	8.3303	12.4955	16.8807	21.2707	1.309E-03	1.820E-03	2.371E-03	2.922E-03	3.473E-03	4.024E-03	4.575E-03	5.126E-03	5.677E-03	6.228E-03
	8	28194.1	(ug/hour)	225.55	3.9726	7.9451	11.9177	16.0802	20.6802	1.248E-03	1.759E-03	2.310E-03	2.861E-03	3.412E-03	3.963E-03	4.514E-03	5.065E-03	5.616E-03	6.167E-03
	9	26827.0	(ug/hour)	214.82	3.7769	7.5599	11.3388	15.1187	19.5093	1.186E-03	1.697E-03	2.248E-03	2.799E-03	3.350E-03	3.901E-03	4.452E-03	5.003E-03	5.554E-03	6.105E-03
	10	25459.9	(ug/hour)	203.86	3.5873	7.1746	10.7619	14.3482	18.3787	1.127E-03	1.638E-03	2.189E-03	2.740E-03	3.291E-03	3.842E-03	4.393E-03	4.944E-03	5.495E-03	6.046E-03
	11	24092.6	(ug/hour)	192.74	3.3947	6.7884	10.1841	13.5787	17.0075	1.067E-03	1.578E-03	2.129E-03	2.680E-03	3.231E-03	3.782E-03	4.333E-03	4.884E-03	5.435E-03	5.986E-03
	12	22725.6	(ug/hour)	181.81	3.2021	6.4041	9.6002	12.8083	15.8075	1.006E-03	1.517E-03	2.068E-03	2.619E-03	3.170E-03	3.721E-03	4.272E-03	4.823E-03	5.374E-03	5.925E-03
	13	21358.7	(ug/hour)	170.87	3.0094	6.0186	9.0263	12.0378	14.8068	9.458E-04	1.469E-03	2.020E-03	2.571E-03	3.122E-03	3.673E-03	4.224E-03	4.775E-03	5.326E-03	5.877E-03
	14	19991.6	(ug/hour)	159.83	2.8166	5.6326	8.4505	11.2873	13.7068	8.850E-04	1.390E-03	1.941E-03	2.492E-03	3.043E-03	3.594E-03	4.145E-03	4.696E-03	5.247E-03	5.798E-03
	15	18624.5	(ug/hour)	149.00	2.6242	5.2464	7.8728	10.4688	12.4968	8.241E-04	1.311E-03	1.862E-03	2.413E-03	2.964E-03	3.515E-03	4.066E-03	4.617E-03	5.168E-03	5.719E-03
	16	17257.4	(ug/hour)	138.08	2.4318	4.8632	7.2947	9.7263	11.2863	7.632E-04	1.232E-03	1.783E-03	2.334E-03	2.885E-03	3.436E-03	3.987E-03	4.538E-03	5.089E-03	5.640E-03
	17	15890.4	(ug/hour)	127.12	2.2390	4.4778	6.7168	8.9058	10.4758	7.023E-04	1.153E-03	1.704E-03	2.255E-03	2.806E-03	3.357E-03	3.908E-03	4.459E-03	5.010E-03	5.561E-03
	18	14523.3	(ug/hour)	116.19	2.0463	4.0827	6.1368	8.1853	9.4758	6.413E-04	1.074E-03	1.625E-03	2.176E-03	2.727E-03	3.278E-03	3.829E-03	4.380E-03	4.931E-03	5.482E-03
	19	13156.2	(ug/hour)	105.25	1.8537	3.7074	5.5811	7.4148	8.4444	5.804E-04	9.847E-04	1.536E-03	2.087E-03	2.638E-03	3.189E-03	3.740E-03	4.291E-03	4.842E-03	5.393E-03
	20	11769.1	(ug/hour)	94.31	1.6611	3.3222	4.9833	6.8444	7.4958	5.195E-04	8.847E-04	1.437E-03	1.988E-03	2.539E-03	3.090E-03	3.641E-03	4.192E-03	4.743E-03	5.294E-03
	21	10422.1	(ug/hour)	83.38	1.4685	2.9369	4.4054	5.8728	6.4444	4.586E-04	7.847E-04	1.338E-03	1.889E-03	2.440E-03	2.991E-03	3.542E-03	4.093E-03	4.644E-03	5.195E-03
	22	9055.0	(ug/hour)	72.44	1.2758	2.5517	3.8273	5.1004	5.4444	3.977E-04	6.847E-04	1.239E-03	1.790E-03	2.341E-03	2.892E-03	3.443E-03	3.994E-03	4.545E-03	5.096E-03
	23	7667.9	(ug/hour)	61.50	1.0832	2.1665	3.2487	4.3328	4.4444	3.368E-04	5.847E-04	1.140E-03	1.691E-03	2.242E-03	2.793E-03	3.344E-03	3.895E-03	4.446E-03	4.997E-03
	24	6320.8	(ug/hour)	50.57	0.8908	1.7812	2.6718	3.5624	3.5624	2.759E-04	4.847E-04	1.041E-03	1.592E-03	2.143E-03	2.694E-03	3.245E-03	3.796E-03	4.347E-03	4.898E-03
	25	4953.7	(ug/hour)	39.63	0.6980	1.3960	2.0840	2.7918	2.7918	2.150E-04	3.847E-04	9.41E-04	1.492E-03	2.043E-03	2.594E-03	3.145E-03	3.696E-03	4.247E-03	4.798E-03
	26	3586.7	(ug/hour)	28.86	0.5054	1.0107	1.5181	2.0214	2.0214	1.541E-04	2.747E-04	6.84E-04	1.235E-03	1.786E-03	2.337E-03	2.888E-03	3.439E-03	3.990E-03	4.541E-03
	27	2218.6	(ug/hour)	17.78	0.3127	0.6255	0.9382	1.2510	1.2510	9.84E-05	1.747E-04	4.54E-04	8.84E-04	1.335E-03	1.786E-03	2.237E-03	2.688E-03	3.139E-03	3.590E-03
	28	852.5	(ug/hour)	8.82	0.1201	0.2402	0.3604	0.4806	0.4806	3.77E-05	6.84E-05	1.74E-04	3.48E-04	5.22E-04	6.96E-04	8.70E-04	1.044E-03	1.218E-03	1.392E-03
	29	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	30	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	31	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	32	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	33	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	34	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	35	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NOTES:

(ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (007 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT (kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE EXPOSURE STUDY
LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS
EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
				(mg/day)					DERMAL ABSORPTION FACTOR #1	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #2	15 DAYS	30 DAYS	45 DAYS	60 DAYS
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS										
TOTAL INSIDE	0	38130.7	(ug/hour)	1.8378	3.8737	5.5135	7.3514	5.574E-05	1.155E-04	1.733E-04	2.310E-04	2.888E-05	5.778E-05	8.86E-05	1.16E-04	1.50E-04	1.77E-04	2.04E-04
	1	37763.6	(ug/hour)	1.7750	3.5473	5.3209	7.0945	5.574E-05	1.155E-04	1.733E-04	2.310E-04	2.888E-05	5.778E-05	8.86E-05	1.16E-04	1.50E-04	1.77E-04	2.04E-04
	2	36395.5	(ug/hour)	1.7004	3.4186	5.1263	6.8377	5.372E-05	1.074E-04	1.612E-04	2.148E-04	2.684E-05	5.372E-05	8.06E-05	1.07E-04	1.33E-04	1.59E-04	1.85E-04
	3	35028.5	(ug/hour)	1.6452	3.2904	4.9357	6.5908	5.171E-05	1.034E-04	1.551E-04	2.086E-04	2.565E-05	5.171E-05	7.76E-05	1.03E-04	1.29E-04	1.55E-04	1.81E-04
	4	33662.4	(ug/hour)	1.5810	3.1620	4.7430	6.3240	4.906E-05	9.936E-05	1.481E-04	1.966E-04	2.444E-05	4.906E-05	7.45E-05	9.93E-05	1.29E-04	1.55E-04	1.81E-04
	5	32295.3	(ug/hour)	1.5168	3.0336	4.5604	6.0672	4.787E-05	9.534E-05	1.400E-04	1.887E-04	2.364E-05	4.787E-05	7.19E-05	9.53E-05	1.29E-04	1.55E-04	1.81E-04
	6	30928.2	(ug/hour)	1.4528	2.9052	4.3578	5.8104	4.569E-05	9.131E-05	1.370E-04	1.828E-04	2.283E-05	4.569E-05	6.85E-05	9.13E-05	1.29E-04	1.55E-04	1.81E-04
	7	29581.2	(ug/hour)	1.3884	2.7768	4.1852	5.5538	4.364E-05	8.727E-05	1.306E-04	1.745E-04	2.182E-05	4.364E-05	6.55E-05	8.72E-05	1.29E-04	1.55E-04	1.81E-04
	8	28194.1	(ug/hour)	1.3242	2.6484	3.9726	5.2987	4.182E-05	8.329E-05	1.240E-04	1.689E-04	2.091E-05	4.182E-05	6.24E-05	8.32E-05	1.29E-04	1.55E-04	1.81E-04
	9	26827.0	(ug/hour)	1.2600	2.5200	3.7798	5.0398	3.990E-05	7.920E-05	1.186E-04	1.644E-04	1.980E-05	3.990E-05	5.89E-05	7.92E-05	1.29E-04	1.55E-04	1.81E-04
	10	25459.9	(ug/hour)	1.1958	2.3915	3.5873	4.7831	3.793E-05	7.518E-05	1.127E-04	1.503E-04	1.879E-05	3.793E-05	5.49E-05	7.52E-05	1.29E-04	1.55E-04	1.81E-04
	11	24092.8	(ug/hour)	1.1316	2.2631	3.3947	4.5282	3.596E-05	7.118E-05	1.067E-04	1.428E-04	1.778E-05	3.596E-05	5.33E-05	7.11E-05	1.29E-04	1.55E-04	1.81E-04
	12	22725.8	(ug/hour)	1.0674	2.1347	3.2021	4.2884	3.395E-05	6.709E-05	1.008E-04	1.343E-04	1.677E-05	3.395E-05	5.03E-05	6.71E-05	1.29E-04	1.55E-04	1.81E-04
	13	21358.7	(ug/hour)	1.0031	2.0083	3.0084	4.0126	3.193E-05	6.309E-05	9.458E-05	1.261E-04	1.578E-05	3.193E-05	4.73E-05	6.31E-05	1.29E-04	1.55E-04	1.81E-04
	14	19991.6	(ug/hour)	0.9388	1.8776	2.8188	3.7938	2.991E-05	5.992E-05	8.883E-05	1.160E-04	1.479E-05	2.991E-05	4.43E-05	5.90E-05	1.29E-04	1.55E-04	1.81E-04
	15	18624.5	(ug/hour)	0.8747	1.7465	2.6242	3.4889	2.748E-05	5.488E-05	8.247E-05	1.100E-04	1.378E-05	2.748E-05	4.12E-05	5.50E-05	1.29E-04	1.55E-04	1.81E-04
	16	17257.4	(ug/hour)	0.8108	1.6211	2.4316	3.2421	2.547E-05	5.095E-05	7.642E-05	1.018E-04	1.274E-05	2.547E-05	3.82E-05	5.08E-05	1.29E-04	1.55E-04	1.81E-04
	17	15890.4	(ug/hour)	0.7463	1.4928	2.2280	2.9653	2.346E-05	4.691E-05	7.007E-05	9.382E-05	1.178E-05	2.346E-05	3.52E-05	4.69E-05	1.29E-04	1.55E-04	1.81E-04
	18	14523.3	(ug/hour)	0.6821	1.3642	2.0463	2.784	2.144E-05	4.289E-05	6.431E-05	8.575E-05	1.072E-05	2.144E-05	3.22E-05	4.28E-05	1.29E-04	1.55E-04	1.81E-04
	19	13158.2	(ug/hour)	0.6179	1.2556	1.8537	2.4718	1.942E-05	3.944E-05	5.828E-05	7.768E-05	9.710E-05	1.942E-05	2.81E-05	3.88E-05	1.29E-04	1.55E-04	1.81E-04
	20	11789.1	(ug/hour)	0.5537	1.1074	1.6511	2.2148	1.740E-05	3.480E-05	5.221E-05	6.961E-05	8.701E-05	1.740E-05	2.51E-05	3.48E-05	1.29E-04	1.55E-04	1.81E-04
	21	10422.1	(ug/hour)	0.4895	0.9790	1.4488	1.9830	1.538E-05	3.077E-05	4.615E-05	6.154E-05	7.692E-05	1.538E-05	2.31E-05	3.06E-05	1.29E-04	1.55E-04	1.81E-04
	22	9055.0	(ug/hour)	0.4253	0.8508	1.2756	1.7011	1.337E-05	2.673E-05	4.010E-05	5.348E-05	6.663E-05	1.337E-05	2.00E-05	2.67E-05	1.29E-04	1.55E-04	1.81E-04
	23	7687.9	(ug/hour)	0.3611	0.7222	1.0632	1.4443	1.135E-05	2.270E-05	3.404E-05	4.539E-05	5.674E-05	1.135E-05	1.70E-05	2.27E-05	1.29E-04	1.55E-04	1.81E-04
	24	6320.8	(ug/hour)	0.2968	0.5937	0.8908	1.1875	9.330E-06	1.886E-05	2.789E-05	3.733E-05	4.696E-05	9.330E-06	1.40E-05	1.87E-05	1.29E-04	1.55E-04	1.81E-04
	25	4953.7	(ug/hour)	0.2327	0.4653	0.6900	0.9208	7.312E-06	1.462E-05	2.184E-05	2.925E-05	3.656E-05	7.312E-06	1.10E-05	1.48E-05	1.29E-04	1.55E-04	1.81E-04
	26	3588.7	(ug/hour)	0.1685	0.3366	0.5054	0.6736	5.294E-06	1.058E-05	1.588E-05	2.110E-05	2.647E-05	5.294E-06	7.94E-06	1.06E-05	1.29E-04	1.55E-04	1.81E-04
	27	2219.6	(ug/hour)	0.1042	0.2085	0.3127	0.4170	3.278E-06	6.558E-06	9.828E-06	1.311E-05	1.638E-05	3.278E-06	4.81E-06	6.55E-06	1.29E-04	1.55E-04	1.81E-04
	28	852.5	(ug/hour)	0.0400	0.0801	0.1201	0.1602	1.268E-06	2.517E-06	3.775E-06	5.034E-06	6.292E-06	1.268E-06	1.86E-06	2.52E-06	1.29E-04	1.55E-04	1.81E-04
	29	0.0	(ug/hour)	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	30	0.0	(ug/hour)	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	31	0.0	(ug/hour)	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	32	0.0	(ug/hour)	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	33	0.0	(ug/hour)	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	34	0.0	(ug/hour)	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	35	0.0	(ug/hour)	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (007 +/- 52 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- RISK = [LADE(mg/day) * Q1*(mg/kg/day-1)] * [DERMAL ABS. FACTOR(100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURE CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2				
TOTAL INSIDE	0	39130.7	(ug/hour)	313.05	3,8757	7,3514	11,0270	14,7027	14,7027	1,195E-04	2,310E-04	3,406E-04	4,521E-04	5,776E-05	1,166E-04	1,73E-04	2,31E-04	3,011	70
	1	37763.6	(ug/hour)	302.11	3,5473	7,0845	10,6418	14,1891	14,1891	1,115E-04	2,200E-04	3,345E-04	4,459E-04	5,574E-05	1,115E-04	1,67E-04	2,22E-04	20	20
	2	36398.5	(ug/hour)	291.17	3,4189	6,8377	10,2568	13,6754	13,6754	1,074E-04	2,148E-04	3,223E-04	4,298E-04	5,372E-05	1,074E-04	1,61E-04	2,15E-04	10	10
	3	35029.5	(ug/hour)	280.24	3,2804	6,5609	9,8413	13,1618	13,1618	1,038E-04	2,080E-04	3,102E-04	4,177E-04	5,171E-05	1,038E-04	1,56E-04	2,07E-04		
	4	33662.4	(ug/hour)	269.30	3,1620	6,3240	9,4861	12,6481	12,6481	9,938E-05	1,988E-04	2,981E-04	3,975E-04	4,969E-05	9,938E-05	1,48E-04	1,98E-04		
	5	32295.3	(ug/hour)	258.36	3,0336	6,0672	9,1008	12,1344	12,1344	9,594E-05	1,907E-04	2,860E-04	3,814E-04	4,767E-05	9,594E-05	1,43E-04	1,91E-04		
	6	30926.2	(ug/hour)	247.43	2,9052	5,8104	8,7156	11,6208	11,6208	9,131E-05	1,826E-04	2,748E-04	3,651E-04	4,563E-05	9,131E-05	1,37E-04	1,83E-04		
	7	29561.2	(ug/hour)	236.48	2,7768	5,5536	8,3303	11,0771	11,0771	8,727E-05	1,745E-04	2,618E-04	3,481E-04	4,394E-05	8,727E-05	1,31E-04	1,75E-04		
	8	28194.1	(ug/hour)	225.55	2,6484	5,2967	7,8451	10,5933	10,5933	8,328E-05	1,665E-04	2,497E-04	3,329E-04	4,192E-05	8,328E-05	1,25E-04	1,66E-04		
	9	26827.0	(ug/hour)	214.82	2,5200	5,0399	7,5599	10,0768	10,0768	7,920E-05	1,594E-04	2,376E-04	3,168E-04	3,960E-05	7,920E-05	1,19E-04	1,59E-04		
	10	25459.8	(ug/hour)	203.86	2,3915	4,7831	7,1746	9,5992	9,5992	7,518E-05	1,503E-04	2,255E-04	3,007E-04	3,756E-05	7,518E-05	1,13E-04	1,50E-04		
	11	24092.8	(ug/hour)	192.74	2,2631	4,5262	6,7894	9,0328	9,0328	7,115E-05	1,422E-04	2,134E-04	2,849E-04	3,598E-05	7,115E-05	1,07E-04	1,42E-04		
	12	22725.8	(ug/hour)	181.81	2,1347	4,2694	6,4041	8,5398	8,5398	6,706E-05	1,342E-04	2,013E-04	2,694E-04	3,393E-05	6,706E-05	1,01E-04	1,34E-04		
	13	21358.7	(ug/hour)	170.87	2,0063	4,0126	6,0189	8,0252	8,0252	6,305E-05	1,261E-04	1,882E-04	2,522E-04	3,158E-05	6,305E-05	9,48E-05	1,26E-04		
	14	19991.6	(ug/hour)	159.83	1,8779	3,7556	5,4968	7,5115	7,5115	5,902E-05	1,180E-04	1,771E-04	2,361E-04	2,951E-05	5,902E-05	8,89E-05	1,18E-04		
	15	18624.5	(ug/hour)	149.00	1,7495	3,4988	5,2484	6,9878	6,9878	5,486E-05	1,100E-04	1,648E-04	2,188E-04	2,748E-05	5,486E-05	8,29E-05	1,10E-04		
	16	17257.4	(ug/hour)	138.06	1,6211	3,2421	4,9022	6,4842	6,4842	5,085E-05	1,018E-04	1,526E-04	2,038E-04	2,547E-05	5,085E-05	7,54E-05	1,02E-04		
	17	15890.4	(ug/hour)	127.12	1,4928	2,9853	4,4779	5,9705	5,9705	4,681E-05	9,392E-05	1,407E-04	1,878E-04	2,348E-05	4,681E-05	7,04E-05	9,39E-05		
	18	14523.3	(ug/hour)	116.18	1,3642	2,7284	4,0927	5,4599	5,4599	4,288E-05	8,579E-05	1,288E-04	1,715E-04	2,144E-05	4,288E-05	6,43E-05	8,59E-05		
	19	13156.2	(ug/hour)	105.25	1,2358	2,4716	3,7074	4,9432	4,9432	3,884E-05	7,788E-05	1,163E-04	1,554E-04	1,943E-05	3,884E-05	5,83E-05	7,77E-05		
	20	11789.1	(ug/hour)	94.31	1,1074	2,2146	3,3222	4,4289	4,4289	3,480E-05	6,861E-05	1,044E-04	1,392E-04	1,740E-05	3,480E-05	5,22E-05	6,99E-05		
	21	10422.1	(ug/hour)	83.36	0,9790	1,9590	2,9369	3,8159	3,8159	3,077E-05	6,154E-05	9,230E-05	1,231E-04	1,538E-05	3,077E-05	4,62E-05	6,15E-05		
	22	9055.0	(ug/hour)	72.44	0,8506	1,7011	2,5517	3,4023	3,4023	2,673E-05	5,345E-05	8,020E-05	1,088E-04	1,337E-05	2,673E-05	4,01E-05	5,35E-05		
	23	7687.9	(ug/hour)	61.50	0,7222	1,4443	2,1665	2,8966	2,8966	2,270E-05	4,539E-05	6,806E-05	9,078E-05	1,133E-05	2,270E-05	3,40E-05	4,54E-05		
	24	6320.8	(ug/hour)	50.57	0,5937	1,1875	1,7812	2,3749	2,3749	1,888E-05	3,732E-05	5,598E-05	7,494E-05	9,330E-06	1,888E-05	2,80E-05	3,73E-05		
	25	4953.7	(ug/hour)	39.63	0,4653	0,9006	1,3680	1,8813	1,8813	1,462E-05	2,925E-05	4,387E-05	5,850E-05	7,312E-06	1,462E-05	2,16E-05	2,92E-05		
	26	3566.7	(ug/hour)	28.68	0,3368	0,6736	1,0107	1,3478	1,3478	1,058E-05	2,118E-05	3,177E-05	4,239E-05	5,294E-06	1,058E-05	1,59E-05	2,12E-05		
	27	2219.6	(ug/hour)	17.78	0,2068	0,4170	0,6295	0,8340	0,8340	6,553E-06	1,311E-05	1,988E-05	2,631E-05	3,278E-06	6,553E-06	9,83E-06	1,31E-05		
	28	852.5	(ug/hour)	6.82	0,0801	0,1602	0,2402	0,3203	0,3203	2,517E-06	5,034E-06	7,550E-06	1,007E-05	1,258E-06	2,517E-06	3,78E-06	5,03E-06		
	29	0.0	(ug/hour)	0.00	0,0000	0,0000	0,0000	0,0000	0,0000	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,00E+00	0,00E+00		
	30	0.0	(ug/hour)	0.00	0,0000	0,0000	0,0000	0,0000	0,0000	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,00E+00	0,00E+00		
	31	0.0	(ug/hour)	0.00	0,0000	0,0000	0,0000	0,0000	0,0000	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,00E+00	0,00E+00		
	32	0.0	(ug/hour)	0.00	0,0000	0,0000	0,0000	0,0000	0,0000	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,00E+00	0,00E+00		
	33	0.0	(ug/hour)	0.00	0,0000	0,0000	0,0000	0,0000	0,0000	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,00E+00	0,00E+00		
	34	0.0	(ug/hour)	0.00	0,0000	0,0000	0,0000	0,0000	0,0000	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,00E+00	0,00E+00		
	35	0.0	(ug/hour)	0.00	0,0000	0,0000	0,0000	0,0000	0,0000	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,00E+00	0,00E+00		

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 82 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/BODY WEIGHT (kg)

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

STUDY DESCRIPTION	DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS					RISK ANALYSIS									
				(mg/day)					DERMAL ABSORPTION FACTOR #1									
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS
TOTAL INSIDE	0	39130.7	lug/hour	313.05	11.0270	16.5408	22.0541	1.735E-04	3.468E-04	5.196E-04	6.931E-04	8.660E-04	1.039E-03	8.894E-05	1.735E-04	2.58E-04	3.47E-04	4.36E-04
	1	37783.8	lug/hour	302.11	5.3208	10.8418	15.9627	1.872E-04	3.345E-04	5.017E-04	6.696E-04	8.375E-04	1.005E-03	8.301E-05	1.672E-04	2.51E-04	3.34E-04	4.17E-04
	2	36396.5	lug/hour	291.17	5.1283	10.2686	15.3048	1.812E-04	3.223E-04	4.854E-04	6.483E-04	8.112E-04	9.741E-04	8.059E-05	1.612E-04	2.42E-04	3.22E-04	4.01E-04
	3	35029.5	lug/hour	280.24	4.9357	9.8713	14.8070	1.551E-04	3.102E-04	4.634E-04	6.163E-04	7.692E-04	9.221E-04	7.759E-05	1.551E-04	2.33E-04	3.10E-04	3.87E-04
	4	33682.4	lug/hour	269.30	4.7430	9.4681	14.2281	1.491E-04	2.981E-04	4.472E-04	5.963E-04	7.454E-04	8.945E-04	7.454E-05	1.491E-04	2.24E-04	2.98E-04	3.75E-04
	5	32295.3	lug/hour	258.36	4.5504	9.1008	13.6512	1.430E-04	2.890E-04	4.372E-04	5.863E-04	7.354E-04	8.845E-04	7.151E-05	1.430E-04	2.15E-04	2.86E-04	3.61E-04
	6	30928.2	lug/hour	247.43	4.3578	8.7156	13.0734	1.370E-04	2.739E-04	4.206E-04	5.697E-04	7.188E-04	8.679E-04	6.845E-05	1.370E-04	2.05E-04	2.74E-04	3.47E-04
	7	29561.2	lug/hour	236.49	4.1652	8.3303	12.4855	1.309E-04	2.618E-04	4.037E-04	5.528E-04	7.019E-04	8.510E-04	6.545E-05	1.309E-04	1.96E-04	2.62E-04	3.33E-04
	8	28194.1	lug/hour	225.55	3.9728	7.9451	11.9177	1.248E-04	2.497E-04	3.748E-04	5.179E-04	6.660E-04	8.141E-04	6.243E-05	1.248E-04	1.87E-04	2.50E-04	3.16E-04
	9	26827.0	lug/hour	214.92	3.7786	7.5599	11.5396	1.188E-04	2.376E-04	3.594E-04	4.952E-04	6.433E-04	7.914E-04	5.940E-05	1.188E-04	1.76E-04	2.38E-04	3.02E-04
	10	25459.9	lug/hour	203.86	3.5873	7.1748	10.7819	1.127E-04	2.255E-04	3.382E-04	4.730E-04	6.109E-04	7.588E-04	5.837E-05	1.127E-04	1.69E-04	2.25E-04	2.92E-04
	11	24092.8	lug/hour	192.74	3.3947	6.7894	10.1841	1.067E-04	2.134E-04	3.201E-04	4.580E-04	5.959E-04	7.338E-04	5.735E-05	1.067E-04	1.60E-04	2.13E-04	2.78E-04
	12	22725.8	lug/hour	181.61	3.2021	6.4041	9.6082	1.006E-04	2.013E-04	3.010E-04	4.303E-04	5.682E-04	7.061E-04	5.632E-05	1.006E-04	1.51E-04	2.01E-04	2.67E-04
	13	21358.7	lug/hour	170.87	3.0094	6.0189	9.0283	9.458E-05	1.892E-04	2.837E-04	4.130E-04	5.513E-04	6.892E-04	5.458E-05	9.458E-05	1.42E-04	1.89E-04	2.50E-04
	14	19991.6	lug/hour	159.83	2.8168	5.6336	8.4505	8.853E-05	1.771E-04	2.696E-04	3.941E-04	5.320E-04	6.699E-04	5.335E-05	8.853E-05	1.33E-04	1.77E-04	2.38E-04
	15	18624.5	lug/hour	148.00	2.6242	5.2484	7.8728	8.247E-05	1.648E-04	2.474E-04	3.695E-04	5.074E-04	6.453E-04	5.142E-05	8.247E-05	1.24E-04	1.65E-04	2.22E-04
	16	17257.4	lug/hour	136.08	2.4318	4.8632	7.2947	7.642E-05	1.528E-04	2.290E-04	3.507E-04	4.886E-04	6.265E-04	4.821E-05	7.642E-05	1.15E-04	1.53E-04	2.08E-04
	17	15900.4	lug/hour	127.12	2.2380	4.4778	6.7188	7.037E-05	1.407E-04	2.111E-04	3.281E-04	4.570E-04	5.959E-04	4.570E-05	7.037E-05	1.06E-04	1.41E-04	1.87E-04
	18	14523.3	lug/hour	116.18	2.0453	4.0927	6.1390	6.431E-05	1.286E-04	1.926E-04	2.973E-04	4.262E-04	5.651E-04	4.262E-05	6.431E-05	9.85E-05	1.29E-04	1.74E-04
	19	13158.2	lug/hour	105.25	1.8537	3.7074	5.5811	5.828E-05	1.165E-04	1.748E-04	2.630E-04	3.911E-04	5.200E-04	3.911E-05	5.828E-05	8.74E-05	1.17E-04	1.59E-04
	20	11789.1	lug/hour	94.31	1.6611	3.3222	4.9633	5.221E-05	1.044E-04	1.590E-04	2.308E-04	3.591E-04	4.882E-04	3.591E-05	5.221E-05	7.83E-05	1.04E-04	1.41E-04
	21	10422.1	lug/hour	83.38	1.4685	2.9389	4.4054	4.615E-05	9.200E-05	1.385E-04	2.046E-04	3.230E-04	4.519E-04	3.230E-05	4.615E-05	6.92E-05	9.23E-05	1.24E-04
	22	9055.0	lug/hour	72.44	1.2758	2.5517	3.8275	4.010E-05	8.020E-05	1.203E-04	1.804E-04	2.805E-04	3.806E-04	2.805E-05	4.010E-05	6.01E-05	8.02E-05	1.07E-04
	23	7687.9	lug/hour	61.50	1.0832	2.1695	3.2497	3.404E-05	6.808E-05	1.021E-04	1.392E-04	2.393E-04	3.394E-04	2.393E-05	3.404E-05	5.11E-05	6.81E-05	9.11E-05
	24	6320.8	lug/hour	50.57	0.8908	1.7812	2.6718	2.798E-05	5.596E-05	8.397E-05	1.230E-04	1.921E-04	2.712E-04	1.921E-05	2.798E-05	4.20E-05	5.60E-05	7.50E-05
	25	4953.7	lug/hour	39.63	0.6960	1.3960	2.0640	2.194E-05	4.387E-05	6.581E-05	9.772E-05	1.475E-04	2.166E-04	1.475E-05	2.194E-05	3.29E-05	4.39E-05	5.89E-05
	26	3588.7	lug/hour	28.88	0.5054	1.0107	1.5181	1.598E-05	3.177E-05	4.765E-05	7.148E-05	1.057E-04	1.586E-04	1.057E-05	1.598E-05	2.39E-05	3.19E-05	4.29E-05
	27	2218.6	lug/hour	17.78	0.3127	0.6255	0.9382	8.20E-06	1.640E-05	2.460E-05	3.690E-05	5.410E-05	7.810E-05	5.410E-06	8.20E-06	1.24E-05	1.64E-05	2.24E-05
	28	852.5	lug/hour	6.82	0.1201	0.2402	0.3604	3.775E-06	7.550E-06	1.132E-05	1.702E-05	2.553E-05	3.829E-05	2.553E-06	3.775E-06	5.66E-06	7.55E-06	1.00E-05
	29	0.0	lug/hour	0.00	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	30	0.0	lug/hour	0.00	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	31	0.0	lug/hour	0.00	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	32	0.0	lug/hour	0.00	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	33	0.0	lug/hour	0.00	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	34	0.0	lug/hour	0.00	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
	35	0.0	lug/hour	0.00	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NOTES:

* (lug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (days/265 days)) * (WORK INTERVAL (hrs)/AVG. LIFETIME (hrs))

* RISK = [LADE(mg/day) * Q1*(mg/kg day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISSEMINABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES BASED ON INSIDE TOMATO (ppm) LEVELS
EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
TOTAL INSIDE	0	39.130.7	(ug/hour)	313.05	3.8757	7.3514	11.0270	14.7027	18.4045	5.776E-05	8.044E-05	1.153E-04	1.535E-04	1.935E-04	5.776E-08	1.153E-05	1.73E-05	2.31E-05	0.011
	1	37.783.6	(ug/hour)	302.11	3.5473	7.0045	10.5018	14.1081	17.7144	5.374E-05	7.115E-05	8.856E-05	1.059E-04	1.232E-04	5.374E-08	1.059E-05	1.63E-05	2.20E-05	70
	2	36.396.5	(ug/hour)	291.17	3.4169	6.8377	10.2560	13.6734	17.0901	5.172E-05	6.896E-05	8.619E-05	1.034E-04	1.207E-04	5.172E-08	1.034E-05	1.61E-05	2.18E-05	5
	3	35029.5	(ug/hour)	280.24	3.2804	6.5600	9.8713	13.1818	16.4923	5.065E-05	6.788E-05	8.511E-05	1.024E-04	1.197E-04	5.065E-08	1.024E-05	1.60E-05	2.07E-05	1
	4	33992.4	(ug/hour)	269.30	3.1820	6.3240	9.5881	12.8441	16.1046	4.958E-05	6.681E-05	8.404E-05	1.013E-04	1.186E-04	4.958E-08	1.013E-05	1.59E-05	2.04E-05	
	5	32295.3	(ug/hour)	258.36	3.0336	6.0672	9.1008	12.3444	15.5925	4.851E-05	6.574E-05	8.299E-05	1.002E-04	1.175E-04	4.851E-08	1.002E-05	1.58E-05	2.00E-05	
	6	30928.2	(ug/hour)	247.43	2.9052	5.8104	8.7156	11.8205	15.0000	4.744E-05	6.467E-05	8.192E-05	9.91E-05	1.164E-04	4.744E-08	9.91E-06	1.57E-05	1.99E-05	
	7	29581.2	(ug/hour)	236.49	2.7788	5.5538	8.3303	11.1071	14.3888	4.637E-05	6.360E-05	8.088E-05	9.80E-05	1.153E-04	4.637E-08	9.80E-06	1.56E-05	1.98E-05	
	8	28194.1	(ug/hour)	225.55	2.6464	5.2967	7.9451	10.5035	13.8999	4.530E-05	6.253E-05	7.973E-05	9.69E-05	1.142E-04	4.530E-08	9.69E-06	1.55E-05	1.97E-05	
	9	26827.0	(ug/hour)	214.62	2.5200	5.0399	7.5599	10.0796	13.4000	4.423E-05	6.146E-05	7.869E-05	9.58E-05	1.131E-04	4.423E-08	9.58E-06	1.54E-05	1.96E-05	
	10	25459.9	(ug/hour)	203.68	2.3915	4.7831	7.1748	9.5881	12.8441	4.316E-05	6.039E-05	7.758E-05	9.47E-05	1.120E-04	4.316E-08	9.47E-06	1.53E-05	1.95E-05	
	11	24092.8	(ug/hour)	192.74	2.2631	4.5262	6.7864	9.0925	12.3444	4.209E-05	5.932E-05	7.651E-05	9.36E-05	1.109E-04	4.209E-08	9.36E-06	1.52E-05	1.94E-05	
	12	22725.8	(ug/hour)	181.81	2.1347	4.2694	6.4041	8.5988	11.8205	4.102E-05	5.825E-05	7.535E-05	9.25E-05	1.098E-04	4.102E-08	9.25E-06	1.51E-05	1.93E-05	
	13	21358.7	(ug/hour)	170.87	2.0063	4.0126	6.0169	8.1089	11.3205	4.000E-05	5.718E-05	7.432E-05	9.14E-05	1.087E-04	4.000E-08	9.14E-06	1.50E-05	1.92E-05	
	14	19991.8	(ug/hour)	159.93	1.8779	3.7559	5.6336	7.5115	10.8205	3.893E-05	5.611E-05	7.325E-05	9.03E-05	1.076E-04	3.893E-08	9.03E-06	1.49E-05	1.91E-05	
	15	18624.5	(ug/hour)	148.00	1.7495	3.4989	5.2464	6.9879	10.3205	3.786E-05	5.504E-05	7.238E-05	8.92E-05	1.065E-04	3.786E-08	8.92E-06	1.48E-05	1.90E-05	
	16	17257.4	(ug/hour)	136.06	1.6211	3.2421	4.8532	6.4842	9.8205	3.679E-05	5.395E-05	7.151E-05	8.81E-05	1.054E-04	3.679E-08	8.81E-06	1.47E-05	1.89E-05	
	17	15890.4	(ug/hour)	124.12	1.4928	2.9853	4.4779	6.0790	9.3205	3.572E-05	5.286E-05	7.041E-05	8.70E-05	1.043E-04	3.572E-08	8.70E-06	1.46E-05	1.88E-05	
	18	14523.3	(ug/hour)	112.19	1.3642	2.7284	4.0927	5.6999	8.8205	3.465E-05	5.177E-05	6.982E-05	8.59E-05	1.032E-04	3.465E-08	8.59E-06	1.45E-05	1.87E-05	
	19	13156.2	(ug/hour)	100.25	1.2359	2.4716	3.7074	4.9432	8.3205	3.358E-05	5.070E-05	6.875E-05	8.48E-05	1.021E-04	3.358E-08	8.48E-06	1.44E-05	1.86E-05	
	20	11788.1	(ug/hour)	88.31	1.1074	2.2148	3.3222	4.4290	7.8205	3.251E-05	4.961E-05	6.758E-05	8.37E-05	1.010E-04	3.251E-08	8.37E-06	1.43E-05	1.85E-05	
	21	10422.1	(ug/hour)	83.38	0.9790	1.9580	2.9399	3.9159	7.2705	3.144E-05	4.854E-05	6.652E-05	8.26E-05	1.000E-04	3.144E-08	8.26E-06	1.42E-05	1.84E-05	
	22	9055.0	(ug/hour)	72.44	0.8508	1.7011	2.5517	3.4023	6.7205	3.037E-05	4.748E-05	6.546E-05	8.15E-05	9.99E-05	3.037E-08	8.15E-06	1.41E-05	1.83E-05	
	23	7687.9	(ug/hour)	61.50	0.7222	1.4443	2.1893	2.8998	6.1705	2.930E-05	4.641E-05	6.439E-05	8.04E-05	9.88E-05	2.930E-08	8.04E-06	1.40E-05	1.82E-05	
	24	6320.8	(ug/hour)	50.57	0.5937	1.1875	1.7812	2.3748	5.660E-05	2.823E-05	4.544E-05	6.342E-05	7.94E-05	9.83E-05	2.823E-08	7.94E-06	1.39E-05	1.81E-05	
	25	4953.7	(ug/hour)	38.63	0.4653	0.9306	1.3980	1.8613	5.090E-05	2.716E-05	4.437E-05	6.235E-05	7.83E-05	9.72E-05	2.716E-08	7.83E-06	1.38E-05	1.80E-05	
	26	3588.7	(ug/hour)	28.69	0.3399	0.6738	1.0107	1.3478	4.520E-05	2.609E-05	4.324E-05	6.120E-05	7.71E-05	9.60E-05	2.609E-08	7.71E-06	1.37E-05	1.79E-05	
	27	2218.8	(ug/hour)	17.78	0.2065	0.4170	0.6255	0.8440	4.000E-05	2.500E-05	4.200E-05	6.000E-05	7.80E-05	9.60E-05	2.500E-08	7.80E-06	1.36E-05	1.78E-05	
	28	882.5	(ug/hour)	6.82	0.0801	0.1602	0.2402	0.3203	0.4004	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	29	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	30	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	31	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	32	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	33	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	34	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
	35	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

NOTES:
 * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
 * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/hour) * (hours tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
 * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
 * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365) (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
 * RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * [DERMAL ABS. FACTOR/100]/[BODY WEIGHT (kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS										
TOTAL INSIDE	0	39130.7	(ug/hour)	313.05	5.5135	11.0270	16.5406	22.0541	4.332E-05	8.664E-05	1.300E-04	1.733E-04	8.664E-05	1.733E-04	2.600E-05	2.600E-05	2.600E-05	2.600E-05	2.600E-05
	1	37763.6	(ug/hour)	302.11	5.3209	10.6418	15.9827	21.2636	4.332E-05	8.664E-05	1.300E-04	1.733E-04	8.664E-05	1.733E-04	2.600E-05	2.600E-05	2.600E-05	2.600E-05	2.600E-05
	2	36396.5	(ug/hour)	291.17	5.1263	10.2566	15.3948	20.5131	4.028E-05	8.056E-05	1.208E-04	1.612E-04	8.056E-05	1.612E-04	2.42E-05	2.42E-05	2.42E-05	2.42E-05	2.42E-05
	3	35029.5	(ug/hour)	280.24	4.9357	9.8713	14.8070	19.7428	3.878E-05	7.756E-05	1.163E-04	1.531E-04	7.756E-05	1.531E-04	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.33E-05
	4	33662.4	(ug/hour)	269.30	4.7430	9.4861	14.2281	18.9721	3.727E-05	7.453E-05	1.118E-04	1.481E-04	7.453E-05	1.481E-04	2.24E-05	2.24E-05	2.24E-05	2.24E-05	2.24E-05
	5	32295.3	(ug/hour)	258.36	4.5504	9.1008	13.6512	18.2017	3.575E-05	7.151E-05	1.073E-04	1.430E-04	7.151E-05	1.430E-04	2.19E-05	2.19E-05	2.19E-05	2.19E-05	2.19E-05
	6	30928.2	(ug/hour)	247.43	4.3578	8.7156	13.0734	17.4312	3.424E-05	6.848E-05	1.027E-04	1.370E-04	6.848E-05	1.370E-04	2.05E-05	2.05E-05	2.05E-05	2.05E-05	2.05E-05
	7	29561.2	(ug/hour)	236.48	4.1652	8.3303	12.4853	16.6607	3.272E-05	6.543E-05	9.918E-05	1.309E-04	6.543E-05	1.309E-04	1.96E-05	1.96E-05	1.96E-05	1.96E-05	1.96E-05
	8	28194.1	(ug/hour)	225.55	3.9728	7.9451	11.8977	15.8602	3.121E-05	6.243E-05	9.394E-05	1.249E-04	6.243E-05	1.249E-04	1.87E-05	1.87E-05	1.87E-05	1.87E-05	1.87E-05
	9	26827.0	(ug/hour)	214.82	3.7799	7.5598	11.3398	15.1197	2.970E-05	5.940E-05	8.910E-05	1.186E-04	5.940E-05	1.186E-04	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05
	10	25459.9	(ug/hour)	203.66	3.5873	7.1746	10.7819	14.3482	2.818E-05	5.637E-05	8.456E-05	1.127E-04	5.637E-05	1.127E-04	1.69E-05	1.69E-05	1.69E-05	1.69E-05	1.69E-05
	11	24062.8	(ug/hour)	192.74	3.3947	6.7884	10.1841	13.5787	2.667E-05	5.333E-05	8.002E-05	1.067E-04	5.333E-05	1.067E-04	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05
	12	22725.8	(ug/hour)	181.81	3.2021	6.4011	9.6062	12.8083	2.516E-05	5.033E-05	7.548E-05	1.008E-04	5.033E-05	1.008E-04	1.51E-05	1.51E-05	1.51E-05	1.51E-05	1.51E-05
	13	21353.7	(ug/hour)	170.87	3.0084	6.0186	9.0283	12.0378	2.365E-05	4.728E-05	7.084E-05	9.488E-05	4.728E-05	9.488E-05	1.42E-05	1.42E-05	1.42E-05	1.42E-05	1.42E-05
	14	19991.6	(ug/hour)	159.83	2.8168	5.6336	8.4505	11.2673	2.213E-05	4.426E-05	6.640E-05	8.853E-05	4.426E-05	8.853E-05	1.33E-05	1.33E-05	1.33E-05	1.33E-05	1.33E-05
	15	18624.5	(ug/hour)	149.00	2.6242	5.2464	7.8728	10.4688	2.062E-05	4.124E-05	6.186E-05	8.247E-05	4.124E-05	8.247E-05	1.24E-05	1.24E-05	1.24E-05	1.24E-05	1.24E-05
	16	17257.4	(ug/hour)	138.06	2.4318	4.8632	7.2847	9.7280	1.911E-05	3.821E-05	5.732E-05	7.642E-05	3.821E-05	7.642E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05	1.15E-05
	17	15890.4	(ug/hour)	127.12	2.2390	4.4778	6.7196	8.8558	1.756E-05	3.511E-05	5.278E-05	7.037E-05	3.511E-05	7.037E-05	1.06E-05	1.06E-05	1.06E-05	1.06E-05	1.06E-05
	18	14523.3	(ug/hour)	116.18	2.0463	4.0827	6.1360	8.1653	1.608E-05	3.218E-05	4.824E-05	6.431E-05	3.218E-05	6.431E-05	9.66E-06	9.66E-06	9.66E-06	9.66E-06	9.66E-06
	19	13156.2	(ug/hour)	105.25	1.8537	3.7074	5.5611	7.4148	1.458E-05	2.913E-05	4.368E-05	5.828E-05	2.913E-05	5.828E-05	8.74E-06	8.74E-06	8.74E-06	8.74E-06	8.74E-06
	20	11789.1	(ug/hour)	94.31	1.6611	3.3222	4.8833	6.6444	1.305E-05	2.610E-05	3.915E-05	5.221E-05	2.610E-05	5.221E-05	7.83E-06	7.83E-06	7.83E-06	7.83E-06	7.83E-06
	21	10422.1	(ug/hour)	83.38	1.4685	2.8388	4.4054	5.8739	1.154E-05	2.304E-05	3.461E-05	4.618E-05	2.304E-05	4.618E-05	6.92E-06	6.92E-06	6.92E-06	6.92E-06	6.92E-06
	22	9055.0	(ug/hour)	72.44	1.2758	2.5317	3.8275	5.1034	1.002E-05	2.008E-05	3.007E-05	4.010E-05	2.008E-05	4.010E-05	6.01E-06	6.01E-06	6.01E-06	6.01E-06	6.01E-06
	23	7687.9	(ug/hour)	61.50	1.0832	2.1665	3.2487	4.3328	8.911E-06	1.782E-05	2.673E-05	3.404E-05	1.782E-05	3.404E-05	5.11E-06	5.11E-06	5.11E-06	5.11E-06	5.11E-06
	24	6320.8	(ug/hour)	50.97	0.8906	1.7812	2.6718	3.5824	7.906E-06	1.400E-05	2.098E-05	2.796E-05	1.400E-05	2.796E-05	4.20E-06	4.20E-06	4.20E-06	4.20E-06	4.20E-06
	25	4953.7	(ug/hour)	39.83	0.6980	1.3960	2.0940	2.7918	5.844E-06	1.097E-05	1.648E-05	2.194E-05	1.097E-05	2.194E-05	3.29E-06	3.29E-06	3.29E-06	3.29E-06	3.29E-06
	26	3586.7	(ug/hour)	28.68	0.5064	1.0107	1.5181	2.0514	3.971E-06	7.941E-06	1.191E-05	1.596E-05	7.941E-06	1.596E-05	2.39E-06	2.39E-06	2.39E-06	2.39E-06	2.39E-06
	27	2218.8	(ug/hour)	17.78	0.3127	0.6255	0.9382	1.2510	2.457E-06	4.914E-06	7.372E-06	9.829E-06	4.914E-06	9.829E-06	1.47E-06	1.47E-06	1.47E-06	1.47E-06	1.47E-06
	28	852.5	(ug/hour)	6.82	0.1201	0.2402	0.3604	0.4805	8.438E-07	1.688E-06	2.531E-06	3.375E-06	1.688E-06	3.375E-06	5.06E-07	5.06E-07	5.06E-07	5.06E-07	5.06E-07
	29	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	30	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	31	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	32	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	33	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	34	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	35	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (807 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

STUDY DESCRIPTION	DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOROLOGICAL PARAMETERS				
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS
TOTAL INSIDE	0	125 538	(ug/lb picked)	1.8101	3.6202	5.4303	7.2404	11.0105	2.840E-04	5.680E-04	8.520E-04	1.136E-03	1.422E-03	1.840E-04	3.680E-04	5.520E-04	7.360E-04	9.200E-04
	1	121 953	(ug/lb picked)	1.7594	3.5189	5.2782	7.0377	10.8078	2.785E-04	5.570E-04	8.355E-04	1.114E-03	1.392E-03	1.810E-04	3.620E-04	5.430E-04	7.240E-04	9.050E-04
	2	118 368	(ug/lb picked)	1.7087	3.4174	5.1262	6.8858	10.6559	2.734E-04	5.468E-04	8.253E-04	1.103E-03	1.381E-03	1.799E-04	3.590E-04	5.390E-04	7.190E-04	9.000E-04
	3	114 783	(ug/lb picked)	1.6580	3.3161	4.9650	6.7246	10.5040	2.683E-04	5.367E-04	8.152E-04	1.092E-03	1.370E-03	1.748E-04	3.540E-04	5.340E-04	7.140E-04	8.950E-04
	4	111 198	(ug/lb picked)	1.6073	3.2152	4.8140	6.5736	10.3521	2.632E-04	5.266E-04	8.001E-04	1.081E-03	1.359E-03	1.707E-04	3.490E-04	5.290E-04	7.090E-04	8.900E-04
	5	107 613	(ug/lb picked)	1.5566	3.1143	4.6630	6.4222	10.2002	2.581E-04	5.155E-04	7.850E-04	1.070E-03	1.348E-03	1.656E-04	3.440E-04	5.240E-04	7.040E-04	8.850E-04
	6	104 028	(ug/lb picked)	1.5059	3.0134	4.5120	6.2704	10.0483	2.530E-04	5.054E-04	7.709E-04	1.059E-03	1.337E-03	1.605E-04	3.390E-04	5.190E-04	6.990E-04	8.800E-04
	7	100 443	(ug/lb picked)	1.4552	2.9125	4.3610	6.1186	9.8964	2.479E-04	4.953E-04	7.558E-04	1.048E-03	1.326E-03	1.554E-04	3.340E-04	5.140E-04	6.940E-04	8.750E-04
	8	96 858	(ug/lb picked)	1.4045	2.8116	4.2100	5.9670	9.7445	2.428E-04	4.852E-04	7.407E-04	1.037E-03	1.315E-03	1.503E-04	3.290E-04	5.090E-04	6.890E-04	8.700E-04
	9	93 273	(ug/lb picked)	1.3538	2.7107	4.0590	5.8150	9.5926	2.377E-04	4.751E-04	7.306E-04	1.026E-03	1.304E-03	1.452E-04	3.240E-04	5.040E-04	6.840E-04	8.650E-04
	10	89 687	(ug/lb picked)	1.3031	2.6098	3.9080	5.6640	9.4407	2.326E-04	4.650E-04	7.205E-04	1.015E-03	1.293E-03	1.401E-04	3.190E-04	4.990E-04	6.790E-04	8.600E-04
	11	86 102	(ug/lb picked)	1.2524	2.5089	3.7570	5.5130	9.2888	2.275E-04	4.549E-04	7.104E-04	1.004E-03	1.282E-03	1.350E-04	3.140E-04	4.940E-04	6.740E-04	8.550E-04
	12	82 517	(ug/lb picked)	1.2017	2.4080	3.6060	5.3620	9.1369	2.224E-04	4.448E-04	7.003E-04	9.93E-04	1.271E-03	1.299E-04	3.090E-04	4.890E-04	6.690E-04	8.500E-04
	13	78 932	(ug/lb picked)	1.1510	2.3071	3.4550	5.2110	8.9850	2.173E-04	4.347E-04	6.902E-04	9.82E-04	1.260E-03	1.248E-04	3.040E-04	4.840E-04	6.640E-04	8.450E-04
	14	75 347	(ug/lb picked)	1.1003	2.2062	3.3040	5.0600	8.8331	2.122E-04	4.246E-04	6.801E-04	9.71E-04	1.249E-03	1.197E-04	2.990E-04	4.790E-04	6.590E-04	8.400E-04
	15	71 762	(ug/lb picked)	1.0496	2.1053	3.1530	4.9090	8.6812	2.071E-04	4.145E-04	6.700E-04	9.60E-04	1.238E-03	1.146E-04	2.940E-04	4.740E-04	6.540E-04	8.350E-04
	16	68 177	(ug/lb picked)	0.9989	2.0044	3.0020	4.7580	8.5293	2.020E-04	4.044E-04	6.599E-04	9.49E-04	1.227E-03	1.095E-04	2.890E-04	4.690E-04	6.490E-04	8.300E-04
	17	64 592	(ug/lb picked)	0.9482	1.9035	2.8510	4.6070	8.3774	1.969E-04	3.943E-04	6.498E-04	9.38E-04	1.216E-03	1.044E-04	2.840E-04	4.640E-04	6.440E-04	8.250E-04
	18	61 007	(ug/lb picked)	0.8975	1.8026	2.7000	4.4560	8.2255	1.918E-04	3.842E-04	6.397E-04	9.27E-04	1.205E-03	9.93E-05	2.790E-04	4.590E-04	6.390E-04	8.200E-04
	19	57 422	(ug/lb picked)	0.8468	1.7017	2.5490	4.3050	8.0736	1.867E-04	3.741E-04	6.296E-04	9.16E-04	1.194E-03	9.42E-05	2.740E-04	4.540E-04	6.340E-04	8.150E-04
	20	53 837	(ug/lb picked)	0.7961	1.6008	2.3980	4.1540	7.9217	1.816E-04	3.640E-04	6.195E-04	9.05E-04	1.183E-03	8.91E-05	2.690E-04	4.490E-04	6.290E-04	8.100E-04
	21	50 252	(ug/lb picked)	0.7454	1.5000	2.2470	4.0030	7.7698	1.765E-04	3.539E-04	6.094E-04	8.94E-04	1.172E-03	8.40E-05	2.640E-04	4.440E-04	6.240E-04	8.050E-04
	22	46 667	(ug/lb picked)	0.6947	1.3991	2.0960	3.8520	7.6179	1.714E-04	3.438E-04	6.003E-04	8.83E-04	1.161E-03	7.89E-05	2.590E-04	4.390E-04	6.190E-04	8.000E-04
	23	43 081	(ug/lb picked)	0.6440	1.2982	1.9450	3.7010	7.4660	1.663E-04	3.337E-04	5.902E-04	8.72E-04	1.150E-03	7.38E-05	2.540E-04	4.340E-04	6.140E-04	7.950E-04
	24	39 496	(ug/lb picked)	0.5933	1.1973	1.7940	3.5460	7.3141	1.612E-04	3.236E-04	5.801E-04	8.61E-04	1.139E-03	6.87E-05	2.490E-04	4.290E-04	6.090E-04	7.900E-04
	25	35 911	(ug/lb picked)	0.5426	1.0964	1.6430	3.3910	7.1622	1.561E-04	3.135E-04	5.700E-04	8.50E-04	1.128E-03	6.36E-05	2.440E-04	4.240E-04	6.040E-04	7.850E-04
	26	32 326	(ug/lb picked)	0.4919	0.9955	1.4920	3.2360	7.0103	1.510E-04	3.034E-04	5.599E-04	8.39E-04	1.117E-03	5.85E-05	2.390E-04	4.190E-04	5.990E-04	7.800E-04
	27	28 741	(ug/lb picked)	0.4412	0.8946	1.3410	3.0810	6.8584	1.459E-04	2.933E-04	5.498E-04	8.28E-04	1.106E-03	5.34E-05	2.340E-04	4.140E-04	5.940E-04	7.750E-04
	28	25 156	(ug/lb picked)	0.3905	0.7937	1.1900	2.9260	6.7065	1.408E-04	2.832E-04	5.397E-04	8.17E-04	1.095E-03	4.83E-05	2.290E-04	4.090E-04	5.890E-04	7.700E-04
	29	21 571	(ug/lb picked)	0.3398	0.6928	1.0390	2.7710	6.5546	1.357E-04	2.731E-04	5.296E-04	8.06E-04	1.084E-03	4.32E-05	2.240E-04	4.040E-04	5.840E-04	7.650E-04
	30	17 986	(ug/lb picked)	0.2891	0.5919	0.8880	2.6160	6.4027	1.306E-04	2.630E-04	5.195E-04	7.95E-04	1.073E-03	3.81E-05	2.190E-04	3.990E-04	5.790E-04	7.600E-04
	31	14 401	(ug/lb picked)	0.2384	0.4910	0.7370	2.4610	6.2508	1.255E-04	2.529E-04	5.094E-04	7.84E-04	1.062E-03	3.30E-05	2.140E-04	3.940E-04	5.740E-04	7.550E-04
	32	10 816	(ug/lb picked)	0.1877	0.3901	0.5860	2.3060	6.0989	1.204E-04	2.428E-04	4.993E-04	7.73E-04	1.051E-03	2.79E-05	2.090E-04	3.890E-04	5.690E-04	7.500E-04
	33	7 231	(ug/lb picked)	0.1370	0.2892	0.4350	2.1510	5.9470	1.153E-04	2.327E-04	4.892E-04	7.62E-04	1.040E-03	2.28E-05	2.040E-04	3.840E-04	5.640E-04	7.450E-04
	34	3 646	(ug/lb picked)	0.0863	0.1883	0.2810	2.0000	5.7951	1.102E-04	2.226E-04	4.791E-04	7.51E-04	1.029E-03	1.78E-05	1.990E-04	3.790E-04	5.590E-04	7.400E-04
	35	0 061	(ug/lb picked)	0.0356	0.0863	0.1290	1.8490	5.6432	1.051E-04	2.125E-04	4.690E-04	7.40E-04	1.018E-03	1.27E-05	1.940E-04	3.740E-04	5.540E-04	7.350E-04

NOTES:

* (ug/lb/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 33 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 days)] * [WORK INTERVAL (hr/avg. lifetime)]

* RISK = [LADE(mg/day) * 0.1*(mg/kg/day)] * (DERMAL ABS. FACTOR/100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2				
					LADE CALCULATIONS (mg/day)					DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS		
TOTAL INSIDE	0	125.538	(ug/lb picked)	308.32	3.8202	7.2404	10.8608	14.4808	5.8696E-04	1.138E-03	1.707E-03	2.276E-03	2.844E-04	5.8696E-04	8.533E-04	1.138E-03			
	1	121.953	(ug/lb picked)	296.32	3.5168	7.0337	10.3503	13.6673	5.528E-04	1.106E-03	1.658E-03	2.211E-03	2.783E-04	5.528E-04	8.280E-04	1.106E-03			
	2	118.368	(ug/lb picked)	280.71	3.4134	6.8268	10.2403	13.6538	5.384E-04	1.073E-03	1.608E-03	2.148E-03	2.682E-04	5.384E-04	8.046E-04	1.073E-03			
	3	114.783	(ug/lb picked)	261.81	3.3101	6.6201	9.9336	13.2402	5.202E-04	1.040E-03	1.540E-03	2.081E-03	2.601E-04	5.202E-04	7.802E-04	1.040E-03			
	4	111.198	(ug/lb picked)	243.10	3.2067	6.4134	9.6200	12.8387	5.068E-04	1.006E-03	1.512E-03	2.018E-03	2.520E-04	5.068E-04	7.590E-04	1.006E-03			
	5	107.613	(ug/lb picked)	224.30	3.1033	6.2066	9.3068	12.4132	4.877E-04	9.753E-04	1.443E-03	1.911E-03	2.438E-04	4.877E-04	7.315E-04	9.753E-04			
	6	104.028	(ug/lb picked)	205.48	2.9999	5.9998	8.9987	11.9998	4.714E-04	9.428E-04	1.414E-03	1.888E-03	2.357E-04	4.714E-04	7.071E-04	9.428E-04			
	7	100.443	(ug/lb picked)	186.66	2.8995	5.7930	8.6966	11.5981	4.593E-04	9.103E-04	1.366E-03	1.821E-03	2.278E-04	4.593E-04	6.828E-04	9.103E-04			
	8	96.858	(ug/lb picked)	167.84	2.7931	5.5863	8.3784	11.1728	4.366E-04	8.778E-04	1.317E-03	1.759E-03	2.168E-04	4.366E-04	6.584E-04	8.778E-04			
	9	93.273	(ug/lb picked)	149.02	2.6896	5.3795	8.0983	10.7960	4.227E-04	8.454E-04	1.288E-03	1.691E-03	2.113E-04	4.227E-04	6.340E-04	8.454E-04			
	10	89.687	(ug/lb picked)	130.27	2.5864	5.1727	7.7591	10.3455	4.084E-04	8.126E-04	1.219E-03	1.626E-03	2.032E-04	4.084E-04	6.046E-04	8.126E-04			
	11	86.102	(ug/lb picked)	111.47	2.4830	4.9660	7.4480	9.8319	3.902E-04	7.804E-04	1.171E-03	1.581E-03	1.951E-04	3.902E-04	5.833E-04	7.804E-04			
	12	82.517	(ug/lb picked)	92.06	2.3796	4.7592	7.1368	9.5164	3.738E-04	7.479E-04	1.122E-03	1.498E-03	1.878E-04	3.738E-04	5.608E-04	7.479E-04			
	13	78.932	(ug/lb picked)	73.86	2.2762	4.5524	6.9268	9.1048	3.577E-04	7.154E-04	1.073E-03	1.431E-03	1.788E-04	3.577E-04	5.365E-04	7.154E-04			
	14	75.347	(ug/lb picked)	54.92	2.1728	4.3457	6.5185	8.6913	3.414E-04	6.828E-04	1.024E-03	1.388E-03	1.707E-04	3.414E-04	5.122E-04	6.828E-04			
	15	71.762	(ug/lb picked)	36.10	2.0694	4.1398	6.2583	8.2778	3.263E-04	6.504E-04	9.759E-04	1.301E-03	1.628E-04	3.263E-04	4.878E-04	6.504E-04			
	16	68.177	(ug/lb picked)	167.44	1.9661	3.9321	5.9682	7.9812	3.080E-04	6.179E-04	9.288E-04	1.268E-03	1.548E-04	3.080E-04	4.604E-04	6.179E-04			
	17	64.592	(ug/lb picked)	158.84	1.8627	3.7253	5.5880	7.4507	2.927E-04	5.854E-04	8.781E-04	1.171E-03	1.464E-04	2.927E-04	4.381E-04	5.854E-04			
	18	61.007	(ug/lb picked)	149.83	1.7593	3.5186	5.2779	7.0372	2.785E-04	5.528E-04	8.294E-04	1.108E-03	1.383E-04	2.785E-04	4.147E-04	5.528E-04			
	19	57.422	(ug/lb picked)	141.03	1.6559	3.3118	4.9777	6.8288	2.602E-04	5.204E-04	7.809E-04	1.041E-03	1.301E-04	2.602E-04	3.808E-04	5.204E-04			
	20	53.837	(ug/lb picked)	132.22	1.5525	3.1050	4.6878	6.2101	2.440E-04	4.879E-04	7.318E-04	9.740E-04	1.220E-04	2.440E-04	3.608E-04	4.879E-04			
	21	50.252	(ug/lb picked)	123.42	1.4491	2.8983	4.3474	5.7985	2.277E-04	4.554E-04	6.832E-04	9.108E-04	1.138E-04	2.277E-04	3.419E-04	4.554E-04			
	22	46.667	(ug/lb picked)	114.81	1.3458	2.6915	4.0373	5.3830	2.113E-04	4.200E-04	6.344E-04	8.498E-04	1.087E-04	2.113E-04	3.172E-04	4.200E-04			
	23	43.081	(ug/lb picked)	105.81	1.2424	2.4847	3.7271	4.9885	1.952E-04	3.900E-04	5.857E-04	7.808E-04	9.791E-05	1.952E-04	2.829E-04	3.900E-04			
	24	39.496	(ug/lb picked)	87.00	1.1390	2.2780	3.4188	4.5859	1.790E-04	3.500E-04	5.398E-04	7.158E-04	8.940E-05	1.790E-04	2.688E-04	3.500E-04			
	25	35.911	(ug/lb picked)	68.20	1.0356	2.0712	3.1086	4.1424	1.627E-04	3.285E-04	4.882E-04	6.508E-04	8.137E-05	1.627E-04	2.441E-04	3.285E-04			
	26	32.326	(ug/lb picked)	49.39	0.9322	1.8644	2.7888	3.7288	1.488E-04	2.900E-04	4.388E-04	5.890E-04	7.329E-05	1.488E-04	2.187E-04	2.900E-04			
	27	28.741	(ug/lb picked)	30.58	0.8288	1.6577	2.4988	3.3183	1.302E-04	2.605E-04	3.907E-04	5.210E-04	6.512E-05	1.302E-04	1.854E-04	2.605E-04			
	28	25.156	(ug/lb picked)	11.76	0.7254	1.4508	2.1793	2.9018	1.140E-04	2.280E-04	3.420E-04	4.580E-04	5.700E-05	1.140E-04	1.498E-04	2.280E-04			
	29	21.571	(ug/lb picked)	92.86	0.6221	1.2441	1.8682	2.4882	9.779E-05	1.955E-04	2.838E-04	3.810E-04	4.890E-05	9.779E-05	1.468E-04	1.955E-04			
	30	17.986	(ug/lb picked)	44.17	0.5187	1.0373	1.5580	2.0747	8.151E-05	1.630E-04	2.445E-04	3.280E-04	4.078E-05	8.151E-05	1.229E-04	1.630E-04			
	31	14.401	(ug/lb picked)	30.37	0.4153	0.8306	1.2498	1.6812	6.589E-05	1.305E-04	1.988E-04	2.810E-04	3.280E-05	6.589E-05	9.798E-05	1.305E-04			
	32	10.816	(ug/lb picked)	28.56	0.3118	0.6238	0.9387	1.2478	4.890E-05	9.800E-05	1.470E-04	2.101E-04	2.491E-05	4.890E-05	7.352E-05	9.800E-05			
	33	7.231	(ug/lb picked)	17.76	0.2085	0.4170	0.6258	0.8341	3.277E-05	6.538E-05	9.530E-05	1.311E-04	1.630E-05	3.277E-05	4.819E-05	6.538E-05			
	34	3.646	(ug/lb picked)	8.95	0.1051	0.2103	0.3164	0.4205	1.652E-05	3.304E-05	4.858E-05	6.808E-05	8.280E-06	1.652E-05	2.478E-05	3.304E-05			
	35	0.061	(ug/lb picked)	0.15	0.0017	0.0038	0.0063	0.0070	5.495E-07	8.495E-07	1.247E-06	1.689E-06	1.374E-07	5.495E-07	8.495E-07	1.247E-06			

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (207 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 days)] * [WORK INTERVAL (hr)/AVERAGE LIFETIME (hr)]

* RISK = [LADE(mg/day) * Qi*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/BODY WEIGHT (kg)

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY EXPOSURE				LADE CALCULATIONS				RISK ANALYSIS				TOXICOLOGICAL PARAMETERS			
	DAY	LEVELS	EXPOSURE	FACTOR	EXPOSURE (mg/day)	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #1	15 DAYS	30 DAYS	45 DAYS	60 DAYS	CHLOROTHALONIL Q1* (mg/kg/day)-1	AVERAGE WEIGHT:
															DERMAL ABS. FACT. #1 (%):	DERMAL ABS. FACT. #2 (%):
TOTAL INSIDE	0	125.538	306.32	(ug/lb picked)	1.8101	3.8202	5.4303	7.2404	9.0505	1.707E-04	1.136E-04	5.890E-05	2.844E-05	8.530E-05	0.611	70
	1	121.953	299.52	(ug/lb picked)	1.7564	3.5188	5.2752	7.0327	8.7902	1.658E-04	1.095E-04	5.528E-05	2.783E-05	8.290E-05	1.108E-04	20
	2	116.369	290.71	(ug/lb picked)	1.7087	3.4134	5.1202	6.8280	8.5358	1.608E-04	1.046E-04	5.394E-05	2.738E-05	8.046E-05	1.073E-04	10
	3	114.783	281.91	(ug/lb picked)	1.6550	3.3101	4.9951	6.6201	8.2451	1.500E-04	1.000E-04	5.202E-05	2.681E-05	7.802E-05	1.040E-04	
	4	111.198	273.10	(ug/lb picked)	1.6033	3.2067	4.8100	6.4134	8.0184	1.412E-04	1.000E-04	5.039E-05	2.520E-05	7.590E-05	1.008E-04	
	5	107.613	264.30	(ug/lb picked)	1.5516	3.1033	4.6548	6.2066	7.7936	1.318E-04	1.000E-04	4.877E-05	2.439E-05	7.315E-05	9.753E-05	
	6	104.028	255.49	(ug/lb picked)	1.5000	2.9999	4.4999	5.9999	7.4999	1.222E-04	1.000E-04	4.714E-05	2.357E-05	7.071E-05	9.428E-05	
	7	100.443	246.68	(ug/lb picked)	1.4483	2.8965	4.3448	5.7930	7.1902	1.136E-04	1.000E-04	4.552E-05	2.279E-05	6.828E-05	9.103E-05	
	8	96.856	237.88	(ug/lb picked)	1.3966	2.7931	4.1887	5.5863	6.9839	1.050E-04	1.000E-04	4.390E-05	2.198E-05	6.541E-05	8.778E-05	
	9	93.273	229.08	(ug/lb picked)	1.3448	2.6896	4.0348	5.3795	6.7705	1.000E-04	1.000E-04	4.227E-05	2.118E-05	6.340E-05	8.494E-05	
	10	89.687	220.27	(ug/lb picked)	1.2932	2.5864	3.8798	5.1727	6.5636	1.218E-04	1.000E-04	4.064E-05	2.038E-05	6.086E-05	8.129E-05	
	11	86.102	211.47	(ug/lb picked)	1.2415	2.4830	3.7245	4.9690	6.3584	1.171E-04	1.000E-04	3.902E-05	1.951E-05	5.883E-05	7.804E-05	
	12	82.517	202.66	(ug/lb picked)	1.1898	2.3798	3.5694	4.7592	6.1532	1.122E-04	1.000E-04	3.739E-05	1.870E-05	5.690E-05	7.479E-05	
	13	78.932	193.86	(ug/lb picked)	1.1381	2.2762	3.4143	4.5524	5.9480	1.073E-04	1.000E-04	3.577E-05	1.789E-05	5.497E-05	7.154E-05	
	14	75.347	185.05	(ug/lb picked)	1.0864	2.1728	3.2592	4.3457	5.7429	1.024E-04	1.000E-04	3.414E-05	1.707E-05	5.305E-05	6.829E-05	
	15	71.762	176.25	(ug/lb picked)	1.0347	2.0694	3.1042	4.1368	5.5378	9.750E-05	1.000E-04	3.252E-05	1.626E-05	5.112E-05	6.504E-05	
	16	68.177	167.44	(ug/lb picked)	0.9830	1.9661	2.9481	3.9323	5.3323	9.260E-05	1.000E-04	3.090E-05	1.544E-05	4.920E-05	6.179E-05	
	17	64.592	158.64	(ug/lb picked)	0.9313	1.8627	2.7940	3.7253	5.1253	8.769E-05	1.000E-04	2.928E-05	1.462E-05	4.735E-05	5.854E-05	
	18	61.007	149.83	(ug/lb picked)	0.8796	1.7593	2.6398	3.5188	4.9188	8.278E-05	1.000E-04	2.766E-05	1.380E-05	4.550E-05	5.529E-05	
	19	57.422	141.03	(ug/lb picked)	0.8279	1.6559	2.4836	3.3118	4.7138	7.787E-05	1.000E-04	2.604E-05	1.301E-05	4.365E-05	5.204E-05	
	20	53.837	132.22	(ug/lb picked)	0.7763	1.5525	2.3288	3.1050	4.5088	7.296E-05	1.000E-04	2.442E-05	1.220E-05	4.180E-05	4.879E-05	
	21	50.252	123.42	(ug/lb picked)	0.7246	1.4491	2.1727	2.8983	4.3038	6.805E-05	1.000E-04	2.277E-05	1.139E-05	3.995E-05	4.554E-05	
	22	46.667	114.61	(ug/lb picked)	0.6729	1.3458	2.0188	2.6915	4.1000	6.314E-05	1.000E-04	2.115E-05	1.057E-05	3.810E-05	4.229E-05	
	23	43.081	105.81	(ug/lb picked)	0.6212	1.2424	1.8534	2.4847	3.8955	5.823E-05	1.000E-04	1.953E-05	9.781E-06	3.625E-05	3.905E-05	
	24	39.496	97.00	(ug/lb picked)	0.5695	1.1390	1.7085	2.2780	3.6865	5.332E-05	1.000E-04	1.790E-05	8.948E-06	3.440E-05	3.500E-05	
	25	35.911	88.20	(ug/lb picked)	0.5178	1.0356	1.5534	2.0712	3.4775	4.841E-05	1.000E-04	1.627E-05	8.137E-06	3.255E-05	3.255E-05	
	26	32.326	79.39	(ug/lb picked)	0.4661	0.9322	1.3983	1.8644	3.2685	4.350E-05	1.000E-04	1.465E-05	7.325E-06	3.070E-05	2.980E-05	
	27	28.741	70.59	(ug/lb picked)	0.4144	0.8286	1.2432	1.6577	3.0595	3.859E-05	1.000E-04	1.302E-05	6.512E-06	2.885E-05	2.805E-05	
	28	25.156	61.78	(ug/lb picked)	0.3627	0.7254	1.0982	1.4509	2.8505	3.368E-05	1.000E-04	1.140E-05	5.700E-06	2.695E-05	2.605E-05	
	29	21.571	52.98	(ug/lb picked)	0.3110	0.6221	0.9331	1.2441	2.6415	2.877E-05	1.000E-04	1.000E-05	4.888E-06	2.505E-05	2.405E-05	
	30	17.986	44.17	(ug/lb picked)	0.2593	0.5187	0.7780	1.0373	2.4325	2.386E-05	1.000E-04	8.775E-06	4.078E-06	2.315E-05	2.205E-05	
	31	14.401	35.37	(ug/lb picked)	0.2078	0.4153	0.6228	0.8308	2.2235	1.895E-05	1.000E-04	7.660E-06	3.260E-06	2.125E-05	2.005E-05	
	32	10.816	26.56	(ug/lb picked)	0.1560	0.3119	0.4679	0.6236	1.9105	1.404E-05	1.000E-04	6.545E-06	2.451E-06	1.935E-05	1.805E-05	
	33	7.231	17.76	(ug/lb picked)	0.1043	0.2065	0.3128	0.4170	1.6015	9.000E-06	1.000E-04	5.430E-06	1.935E-06	1.645E-05	1.505E-05	
	34	3.646	8.95	(ug/lb picked)	0.0528	0.1061	0.1577	0.2103	1.3925	4.500E-06	1.000E-04	4.315E-06	1.405E-06	1.355E-05	1.205E-05	
	35	0.061	0.19	(ug/lb picked)	0.0008	0.0017	0.0028	0.0038	1.1835	3.405E-06	1.000E-04	3.205E-06	1.295E-06	1.245E-05	1.095E-05	

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day)-1] * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(lb)]

REVIEW OF CHLOROTHALONIL FOLIAR DISSEMINABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS			LADE CALCULATIONS				RISK ANALYSIS				DERMAL ABSORPTION FACTOR #2				
STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
TOTAL INSIDE															
0	125.538	log/lb picked)	300.32	3.8202	7.2404	10.8608	14.4808	1.136E-04	2.271E-04	3.413E-04	4.551E-04	5.690E-05	1.105E-04	1.707E-04	2.271E-04
1	121.953	(ug/lb picked)	299.92	3.5166	7.0337	10.5505	14.0673	1.05E-04	2.211E-04	3.316E-04	4.421E-04	5.520E-05	1.05E-04	1.68E-04	2.211E-04
2	118.368	(ug/lb picked)	290.71	3.4134	6.8209	10.2403	13.6536	1.073E-04	2.146E-04	3.216E-04	4.291E-04	5.361E-05	1.073E-04	1.606E-04	2.146E-04
3	114.783	(ug/lb picked)	281.81	3.3101	6.6081	9.9302	13.2402	1.046E-04	2.081E-04	3.121E-04	4.181E-04	5.202E-05	1.046E-04	1.536E-04	2.081E-04
4	111.198	(ug/lb picked)	273.10	3.2067	6.4134	9.6200	12.8287	1.008E-04	2.016E-04	3.022E-04	4.031E-04	5.039E-05	1.008E-04	1.512E-04	2.016E-04
5	107.613	(ug/lb picked)	264.30	3.1033	6.2096	9.3098	12.4132	9.793E-05	1.951E-04	2.926E-04	3.901E-04	4.877E-05	9.793E-05	1.483E-04	1.951E-04
6	104.028	(ug/lb picked)	255.49	2.9999	5.9996	8.9997	11.9998	9.426E-05	1.886E-04	2.826E-04	3.771E-04	4.714E-05	9.426E-05	1.414E-04	1.886E-04
7	100.443	(ug/lb picked)	246.68	2.8995	5.7930	8.6998	11.5991	9.103E-05	1.821E-04	2.715E-04	3.641E-04	4.552E-05	9.103E-05	1.366E-04	1.821E-04
8	96.858	(ug/lb picked)	237.86	2.7931	5.5903	8.3984	11.1728	8.774E-05	1.756E-04	2.634E-04	3.517E-04	4.369E-05	8.774E-05	1.317E-04	1.756E-04
9	93.273	(ug/lb picked)	229.05	2.6896	5.3795	8.0963	10.7580	8.454E-05	1.691E-04	2.536E-04	3.391E-04	4.227E-05	8.454E-05	1.266E-04	1.691E-04
10	89.687	(ug/lb picked)	220.27	2.5894	5.1727	7.7951	10.3455	8.128E-05	1.626E-04	2.439E-04	3.281E-04	4.044E-05	8.128E-05	1.216E-04	1.626E-04
11	86.102	(ug/lb picked)	211.47	2.4830	4.9680	7.4900	9.9319	7.804E-05	1.561E-04	2.341E-04	3.121E-04	3.902E-05	7.804E-05	1.171E-04	1.561E-04
12	82.517	(ug/lb picked)	202.66	2.3796	4.7592	7.1366	9.5164	7.479E-05	1.496E-04	2.244E-04	2.991E-04	3.739E-05	7.479E-05	1.122E-04	1.496E-04
13	78.932	(ug/lb picked)	193.86	2.2782	4.5524	6.8268	9.1048	7.154E-05	1.431E-04	2.146E-04	2.892E-04	3.577E-05	7.154E-05	1.073E-04	1.431E-04
14	75.347	(ug/lb picked)	185.05	2.1728	4.3437	6.5183	8.6913	6.826E-05	1.366E-04	2.046E-04	2.732E-04	3.314E-05	6.826E-05	1.024E-04	1.366E-04
15	71.762	(ug/lb picked)	176.25	2.0694	4.1398	6.2083	8.2778	6.504E-05	1.301E-04	1.941E-04	2.602E-04	3.252E-05	6.504E-05	9.793E-05	1.301E-04
16	68.177	(ug/lb picked)	167.44	1.9691	3.9321	5.9042	7.8642	6.179E-05	1.236E-04	1.854E-04	2.472E-04	3.090E-05	6.179E-05	9.299E-05	1.236E-04
17	64.592	(ug/lb picked)	158.64	1.8627	3.7253	5.5960	7.4507	5.854E-05	1.171E-04	1.756E-04	2.242E-04	2.877E-05	5.854E-05	8.781E-05	1.171E-04
18	61.007	(ug/lb picked)	149.83	1.7593	3.5166	5.2778	7.0373	5.526E-05	1.106E-04	1.696E-04	2.132E-04	2.769E-05	5.526E-05	8.294E-05	1.106E-04
19	57.422	(ug/lb picked)	141.03	1.6559	3.3118	4.9777	6.6238	5.204E-05	1.041E-04	1.591E-04	2.002E-04	2.602E-05	5.204E-05	7.806E-05	1.041E-04
20	53.837	(ug/lb picked)	132.22	1.5525	3.1060	4.6778	6.2101	4.879E-05	9.799E-05	1.444E-04	1.952E-04	2.440E-05	4.879E-05	7.319E-05	9.799E-05
21	50.252	(ug/lb picked)	123.42	1.4481	2.8983	4.3747	5.7969	4.554E-05	9.109E-05	1.366E-04	1.822E-04	2.277E-05	4.554E-05	6.832E-05	9.109E-05
22	46.667	(ug/lb picked)	114.61	1.3450	2.6915	4.0373	5.3030	4.230E-05	8.496E-05	1.266E-04	1.692E-04	2.115E-05	4.230E-05	6.344E-05	8.496E-05
23	43.081	(ug/lb picked)	105.81	1.2424	2.4847	3.7271	4.9969	3.905E-05	7.806E-05	1.171E-04	1.592E-04	1.942E-05	3.905E-05	5.837E-05	7.806E-05
24	39.496	(ug/lb picked)	97.00	1.1390	2.2760	3.4169	4.5939	3.506E-05	7.159E-05	1.074E-04	1.432E-04	1.790E-05	3.506E-05	5.366E-05	7.159E-05
25	35.911	(ug/lb picked)	88.20	1.0356	2.0712	3.1068	4.1424	3.255E-05	6.509E-05	9.794E-05	1.302E-04	1.627E-05	3.255E-05	4.882E-05	6.509E-05
26	32.326	(ug/lb picked)	79.39	0.9322	1.8644	2.7998	3.7368	2.903E-05	5.890E-05	8.798E-05	1.172E-04	1.465E-05	2.903E-05	4.393E-05	5.890E-05
27	28.741	(ug/lb picked)	70.58	0.8289	1.6937	2.4880	3.3153	2.605E-05	5.210E-05	7.818E-05	1.042E-04	1.302E-05	2.605E-05	3.907E-05	5.210E-05
28	25.156	(ug/lb picked)	61.78	0.7254	1.4909	2.1793	2.9018	2.280E-05	4.569E-05	6.840E-05	9.129E-05	1.140E-05	2.280E-05	3.426E-05	4.569E-05
29	21.571	(ug/lb picked)	52.99	0.6221	1.2841	1.8692	2.4932	1.955E-05	3.910E-05	5.895E-05	7.820E-05	9.775E-06	1.955E-05	2.933E-05	3.910E-05
30	17.986	(ug/lb picked)	44.17	0.5187	1.0373	1.5580	2.0747	1.630E-05	3.289E-05	4.880E-05	6.525E-05	8.151E-06	1.630E-05	2.445E-05	3.289E-05
31	14.401	(ug/lb picked)	35.37	0.4153	0.8306	1.2459	1.6612	1.305E-05	2.810E-05	3.916E-05	5.221E-05	6.399E-06	1.305E-05	1.959E-05	2.810E-05
32	10.816	(ug/lb picked)	26.56	0.3119	0.6236	0.9357	1.2478	9.803E-06	1.961E-05	2.841E-05	3.821E-05	4.901E-06	9.803E-06	1.470E-05	1.961E-05
33	7.231	(ug/lb picked)	17.76	0.2085	0.4170	0.6256	0.8341	6.553E-06	1.311E-05	1.949E-05	2.821E-05	3.277E-06	6.553E-06	9.830E-06	1.311E-05
34	3.645	(ug/lb picked)	8.65	0.1051	0.2103	0.3154	0.4205	3.304E-06	6.806E-06	9.813E-06	1.322E-05	1.652E-06	3.304E-06	4.859E-06	6.806E-06
35	0.061	(ug/lb picked)	0.15	0.0017	0.0035	0.0052	0.0070	5.466E-07	1.099E-07	1.646E-07	2.168E-07	2.747E-07	5.466E-07	6.242E-06	1.099E-07

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS (mg/day)										RISK ANALYSIS										TOXICOLOGICAL PARAMETERS		
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	90 DAYS	105 DAYS	120 DAYS	135 DAYS	150 DAYS	DERMAL ABSORPTION FACTOR #1										CHLOROTHALONIL Q1* (mg/kg/day)-1:		
TOTAL INSIDE	0	125.538	(ug/lb picked)	5.4303	10.8606	16.2910	21.7213	27.1516	32.5819	38.0122	43.4425	48.8728	54.3031	DERMAL ABSORPTION FACTOR #2										AVERAGE WEIGHT:		
	1	121.953	(ug/lb picked)	5.2732	10.5465	15.8198	21.0931	26.3664	31.6397	36.9130	42.1863	47.4596	52.7329	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS	DERMAL ABS. FACT. #1 (%):		
	2	118.368	(ug/lb picked)	5.1202	10.2403	15.3605	20.4807	25.6009	30.7211	35.8413	40.9615	46.0817	51.2019	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS	DERMAL ABS. FACT. #2 (%):		
	3	114.783	(ug/lb picked)	4.9651	9.9302	14.8953	19.8605	24.8257	29.7909	34.7561	39.7213	44.6865	49.6517	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS	0.011		
	4	111.198	(ug/lb picked)	4.8100	9.6200	14.4300	19.2400	23.9500	28.6600	33.3700	38.0800	42.7900	47.5000	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS	70		
	5	107.613	(ug/lb picked)	4.6549	9.3098	13.9648	18.7798	23.4948	28.2098	32.9248	37.6398	42.3548	47.0698	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS	20		
	6	104.028	(ug/lb picked)	4.4998	8.9997	13.4996	18.2996	22.9196	27.5396	32.1596	36.7796	41.3996	46.0196	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS	10		
	7	100.443	(ug/lb picked)	4.3448	8.6896	13.0344	17.7488	22.2688	26.8888	31.5088	36.1288	40.7488	45.3688	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	8	96.858	(ug/lb picked)	4.1897	8.3794	12.5691	17.1783	21.6983	26.3183	30.9383	35.5583	40.1783	44.7983	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	9	93.273	(ug/lb picked)	4.0346	8.0693	12.1036	16.7136	21.2336	25.8536	30.4736	35.0936	39.7136	44.3336	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	10	89.687	(ug/lb picked)	3.8795	7.7591	11.6387	16.1587	20.6787	25.2987	29.9187	34.5387	39.1587	43.7787	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	11	86.102	(ug/lb picked)	3.7245	7.4490	11.1734	15.6834	20.1934	24.7034	29.2134	33.7234	38.2334	42.7434	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	12	82.517	(ug/lb picked)	3.5694	7.1389	10.7082	15.2182	19.7282	24.2382	28.7482	33.2582	37.7682	42.2782	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	13	78.932	(ug/lb picked)	3.4143	6.8288	10.2430	14.7430	19.2530	23.7630	28.2730	32.7830	37.2930	41.8030	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	14	75.347	(ug/lb picked)	3.2592	6.5186	9.7777	14.2777	19.0077	23.5177	28.0277	32.5377	37.0477	41.5577	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	15	71.762	(ug/lb picked)	3.1042	6.2083	9.3125	13.8025	18.6225	23.1325	27.6425	32.1525	36.6625	41.1725	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	16	68.177	(ug/lb picked)	2.9491	5.8982	8.8473	13.3273	18.1473	22.6573	27.1673	31.6773	36.1873	40.6973	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	17	64.592	(ug/lb picked)	2.7940	5.5880	8.3820	12.8520	17.6720	22.1820	26.6920	31.2020	35.7120	40.2220	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	18	61.007	(ug/lb picked)	2.6389	5.2779	7.9168	12.3568	17.1968	21.7068	26.2168	30.7268	35.2368	39.7468	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	19	57.422	(ug/lb picked)	2.4838	4.9677	7.4516	11.8616	16.7016	21.2116	25.7216	30.2316	34.7416	39.2516	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	20	53.837	(ug/lb picked)	2.3288	4.6576	6.9863	11.3663	16.2463	20.7563	25.2663	29.7763	34.2863	38.7963	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	21	50.252	(ug/lb picked)	2.1737	4.3474	6.5211	10.8711	15.7911	20.3011	24.8111	29.3211	33.8311	38.3411	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	22	46.667	(ug/lb picked)	2.0186	4.0373	6.0559	10.3759	15.3059	19.8159	24.3259	28.8359	33.3459	37.8559	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	23	43.081	(ug/lb picked)	1.8635	3.7271	5.5908	9.8808	14.8108	19.3208	23.8308	28.3408	32.8508	37.3608	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	24	39.496	(ug/lb picked)	1.7083	3.4169	5.1254	9.3854	14.3254	18.8354	23.3454	27.8554	32.3654	36.8754	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	25	35.911	(ug/lb picked)	1.5534	3.1068	4.6602	8.8902	13.8402	18.3502	22.8602	27.3702	31.8802	36.3902	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	26	32.326	(ug/lb picked)	1.3983	2.7968	4.1950	8.3950	13.3550	17.8650	22.3750	26.8850	31.3950	35.9050	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	27	28.741	(ug/lb picked)	1.2432	2.4865	3.7397	7.8997	12.8097	17.3197	21.8297	26.3397	30.8497	35.3597	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	28	25.156	(ug/lb picked)	1.0882	2.1763	3.2845	7.4045	12.3145	16.8245	21.3345	25.8445	30.3545	34.8645	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	29	21.571	(ug/lb picked)	0.9331	1.8662	2.7993	6.9323	11.8463	16.3563	20.8663	25.3763	29.8863	34.3963	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	30	17.986	(ug/lb picked)	0.7780	1.5560	2.3440	6.1120	11.0240	15.5340	20.0440	24.5540	29.0640	33.5740	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	31	14.401	(ug/lb picked)	0.6228	1.2456	1.8688	5.2417	10.4834	15.7251	20.9668	26.2085	31.4502	36.6919	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	32	10.816	(ug/lb picked)	0.4679	0.9357	1.4036	3.6114	7.2228	10.8342	15.4456	20.0570	24.6684	29.2798	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	33	7.231	(ug/lb picked)	0.3128	0.6256	0.9383	2.4311	4.8622	7.2933	10.9399	15.5718	20.2037	24.8356	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	34	3.646	(ug/lb picked)	0.1577	0.3154	0.4731	1.2008	2.4016	3.6024	5.4036	8.1054	12.1581	18.2371	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			
	35	0.061	(ug/lb picked)	0.0028	0.0052	0.0078	0.0105	0.0140	0.0180	0.0220	0.0260	0.0300	0.0340	15 DAYS	18 DAYS	21 DAYS	24 DAYS	27 DAYS	30 DAYS	33 DAYS	36 DAYS	39 DAYS	42 DAYS			

NOTES:

* (ug/lb/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES.

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * DERMAL ABS. FACTOR(100)]/[BODY WEIGHT (kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISSEMINABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS BASED ON INSIDE EXPOSURE LEVELS
EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

PPA SUPPORT TASK-2110.003 VERSAR INC. 9/15/93 JLD LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS										EXPOSURE PARAMETERS					TOXICOLOGICAL PARAMETERS				
STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					CHLOROTHALONIL Q1* (mg/kg/day):					
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2					
									15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	
TOTAL INSIDE	0	125.536	(ug/lb picked)	306.32	1.8101	3.4202	5.4303	7.2404	1.422E-05	2.844E-05	4.267E-05	5.690E-05	7.113E-05	8.536E-05	1.136E-05	80 DAYS			
	1	121.953	(ug/lb picked)	299.52	1.7564	3.5168	5.2752	7.0337	1.342E-05	2.783E-05	4.145E-05	5.526E-05	6.908E-05	8.290E-05	1.105E-05				
	2	118.368	(ug/lb picked)	290.71	1.7067	3.4134	5.1202	6.8280	1.341E-05	2.682E-05	4.022E-05	5.304E-05	6.586E-05	7.968E-05	1.073E-05				
	3	114.783	(ug/lb picked)	281.81	1.6550	3.3101	4.9651	6.6321	1.300E-05	2.581E-05	3.901E-05	5.183E-05	6.465E-05	7.847E-05	1.040E-05				
	4	111.198	(ug/lb picked)	273.10	1.6033	3.2067	4.8100	6.4134	1.260E-05	2.520E-05	3.776E-05	5.058E-05	6.340E-05	7.720E-05	1.008E-05				
	5	107.613	(ug/lb picked)	264.30	1.5516	3.1033	4.6548	6.2066	1.219E-05	2.459E-05	3.651E-05	4.927E-05	6.201E-05	7.582E-05	9.933E-06				
	6	104.028	(ug/lb picked)	255.48	1.5000	2.9999	4.5000	6.0000	1.178E-05	2.397E-05	3.536E-05	4.714E-05	6.011E-05	7.392E-05	9.783E-06				
	7	100.443	(ug/lb picked)	246.69	1.4483	2.8965	4.3448	5.7930	1.136E-05	2.336E-05	3.414E-05	4.592E-05	5.898E-05	7.280E-05	9.603E-06				
	8	96.856	(ug/lb picked)	237.86	1.3966	2.7931	4.1897	5.5803	1.095E-05	2.275E-05	3.292E-05	4.369E-05	5.644E-05	7.028E-05	9.454E-06				
	9	93.273	(ug/lb picked)	229.06	1.3449	2.6898	4.0346	5.3704	1.054E-05	2.214E-05	3.170E-05	4.227E-05	5.504E-05	6.840E-05	9.305E-06				
	10	89.687	(ug/lb picked)	220.27	1.2932	2.5864	3.8796	5.1727	1.013E-05	2.153E-05	3.046E-05	4.044E-05	5.286E-05	6.572E-05	9.156E-06				
	11	86.102	(ug/lb picked)	211.47	1.2415	2.4830	3.7245	4.9690	9.720E-06	2.092E-05	2.925E-05	3.823E-05	4.951E-05	6.180E-05	8.904E-06				
	12	82.517	(ug/lb picked)	202.66	1.1898	2.3796	3.5694	4.7562	9.309E-06	2.031E-05	2.804E-05	3.700E-05	4.828E-05	6.050E-05	8.729E-06				
	13	78.932	(ug/lb picked)	193.86	1.1381	2.2762	3.4143	4.5435	8.898E-06	1.970E-05	2.683E-05	3.577E-05	4.685E-05	5.955E-05	8.549E-06				
	14	75.347	(ug/lb picked)	185.05	1.0864	2.1728	3.2592	4.3308	8.487E-06	1.909E-05	2.562E-05	3.414E-05	4.512E-05	5.780E-05	8.420E-06				
	15	71.762	(ug/lb picked)	176.25	1.0347	2.0694	3.1041	4.1180	8.076E-06	1.848E-05	2.441E-05	3.252E-05	4.376E-05	5.604E-05	8.290E-06				
	16	68.177	(ug/lb picked)	167.44	0.9830	1.9661	2.9490	3.9054	7.665E-06	1.787E-05	2.320E-05	3.090E-05	4.234E-05	5.454E-05	8.179E-06				
	17	64.592	(ug/lb picked)	158.64	0.9313	1.8627	2.7940	3.7263	7.254E-06	1.726E-05	2.199E-05	2.927E-05	4.091E-05	5.304E-05	8.064E-06				
	18	61.007	(ug/lb picked)	149.83	0.8796	1.7593	2.6390	3.5186	6.843E-06	1.665E-05	2.078E-05	2.785E-05	3.926E-05	5.152E-05	7.952E-06				
	19	57.422	(ug/lb picked)	141.03	0.8280	1.6558	2.4839	3.3118	6.432E-06	1.604E-05	1.957E-05	2.652E-05	3.803E-05	5.044E-05	7.840E-06				
	20	53.837	(ug/lb picked)	132.22	0.7763	1.5523	2.3288	3.1050	6.021E-06	1.543E-05	1.836E-05	2.440E-05	3.600E-05	4.879E-05	7.729E-06				
	21	50.252	(ug/lb picked)	123.42	0.7246	1.4489	2.1737	2.8993	5.610E-06	1.482E-05	1.709E-05	2.277E-05	3.390E-05	4.644E-05	7.618E-06				
	22	46.667	(ug/lb picked)	114.61	0.6729	1.3458	2.0186	2.6915	5.199E-06	1.421E-05	1.594E-05	2.115E-05	3.172E-05	4.420E-05	7.506E-06				
	23	43.081	(ug/lb picked)	105.81	0.6212	1.2424	1.8635	2.4847	4.788E-06	1.360E-05	1.473E-05	1.952E-05	2.926E-05	4.305E-05	7.395E-06				
	24	39.496	(ug/lb picked)	97.00	0.5695	1.1390	1.7085	2.2760	4.377E-06	1.299E-05	1.352E-05	1.790E-05	2.865E-05	4.180E-05	7.283E-06				
	25	35.911	(ug/lb picked)	88.20	0.5178	1.0356	1.5534	2.0712	4.066E-06	1.238E-05	1.221E-05	1.627E-05	2.641E-05	3.955E-05	7.170E-06				
	26	32.326	(ug/lb picked)	79.38	0.4661	0.9322	1.3983	1.8644	3.655E-06	1.177E-05	1.110E-05	1.495E-05	2.492E-05	3.800E-05	7.058E-06				
	27	28.741	(ug/lb picked)	70.56	0.4144	0.8288	1.2432	1.6577	3.244E-06	1.116E-05	1.000E-05	1.465E-05	2.397E-05	3.690E-05	6.946E-06				
	28	25.156	(ug/lb picked)	61.78	0.3627	0.7254	1.0882	1.4509	2.833E-06	1.055E-05	9.14E-06	1.352E-05	2.285E-05	3.580E-05	6.830E-06				
	29	21.571	(ug/lb picked)	52.96	0.3110	0.6221	0.9231	1.2441	2.422E-06	9.94E-06	8.03E-06	1.170E-05	2.048E-05	3.460E-05	6.720E-06				
	30	17.986	(ug/lb picked)	44.17	0.2593	0.5187	0.7700	1.0373	2.011E-06	9.33E-06	7.69E-06	1.050E-05	1.927E-05	3.350E-05	6.609E-06				
	31	14.401	(ug/lb picked)	35.37	0.2076	0.4153	0.6229	0.8306	1.600E-06	8.72E-06	6.94E-06	9.30E-06	1.806E-05	3.255E-05	6.490E-06				
	32	10.816	(ug/lb picked)	26.56	0.1560	0.3118	0.4678	0.6228	1.189E-06	8.11E-06	6.113E-06	8.175E-06	1.685E-05	3.195E-05	6.380E-06				
	33	7.231	(ug/lb picked)	17.76	0.1043	0.2085	0.3128	0.4170	7.68E-07	7.50E-06	5.500E-06	7.331E-06	1.406E-05	2.895E-05	6.270E-06				
	34	3.646	(ug/lb picked)	8.95	0.0526	0.1081	0.1577	0.2103	4.10E-07	6.89E-06	4.079E-06	5.151E-06	1.223E-05	2.785E-05	6.003E-06				
	35	0.061	(ug/lb picked)	0.15	0.0038	0.0017	0.0026	0.0035	2.01E-08	1.374E-06	2.061E-06	2.747E-06	4.121E-06	5.465E-06	1.195E-06				

NOTES:
 * (ug/lb/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
 * EXPOSURE (mg/day) = EXPOSURE (mg/lb/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
 * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (007 +/- 52 lb/hour).
 * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
 * RISK = [LADE(mg/day) * Q1*(mg/kg/day, 1) * (DERMAL ABS. FACTOR/100)]/BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOSGEABLE RESIDUE/EXPOSURE STUDY
LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
TOTAL INSIDE	0	125.536	(ug/lb picked)	308.32	3.8202	7.2404	10.8608	14.4808	18.1008	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	5.888E-06	1.138E-05	1.707E-05	2.276E-05	0.011
	1	121.953	(ug/lb picked)	299.52	3.5166	7.0337	10.5505	14.0673	17.5841	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	5.528E-06	1.108E-05	1.658E-05	2.211E-05	70
	2	116.396	(ug/lb picked)	290.71	3.4154	6.8309	10.2463	13.6636	17.0794	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	5.364E-06	1.073E-05	1.606E-05	2.146E-05	5
	3	114.783	(ug/lb picked)	281.91	3.3101	6.6201	9.9302	13.2402	16.5603	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	5.202E-06	1.046E-05	1.560E-05	2.061E-05	1
	4	111.196	(ug/lb picked)	273.10	3.2067	6.4134	9.6206	12.8213	16.0313	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	5.040E-06	1.020E-05	1.512E-05	2.016E-05	
	5	107.613	(ug/lb picked)	264.30	3.1033	6.2069	9.3069	12.4133	15.6069	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	4.878E-06	9.753E-06	1.483E-05	1.951E-05	
	6	104.028	(ug/lb picked)	255.49	2.9999	5.9996	8.9997	11.9996	15.0000	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	4.716E-06	9.428E-06	1.414E-05	1.888E-05	
	7	100.443	(ug/lb picked)	246.68	2.8965	5.7930	8.6886	11.5861	14.4808	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	4.554E-06	9.103E-06	1.366E-05	1.821E-05	
	8	96.858	(ug/lb picked)	237.88	2.7931	5.5903	8.3784	11.2700	14.0673	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	4.392E-06	8.778E-06	1.317E-05	1.759E-05	
	9	93.273	(ug/lb picked)	229.08	2.6898	5.3795	8.0683	10.7990	13.6636	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	4.227E-06	8.454E-06	1.268E-05	1.691E-05	
	10	89.687	(ug/lb picked)	220.27	2.5864	5.1727	7.7561	10.3455	13.2402	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	4.064E-06	8.129E-06	1.219E-05	1.628E-05	
	11	86.102	(ug/lb picked)	211.47	2.4830	4.9690	7.4400	9.8319	12.8213	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	3.902E-06	7.804E-06	1.171E-05	1.561E-05	
	12	82.517	(ug/lb picked)	202.66	2.3798	4.7592	7.1308	9.5164	12.4133	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	3.739E-06	7.479E-06	1.122E-05	1.498E-05	
	13	78.932	(ug/lb picked)	193.86	2.2762	4.5524	6.8286	9.1048	12.0063	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	3.577E-06	7.154E-06	1.073E-05	1.431E-05	
	14	75.347	(ug/lb picked)	185.05	2.1728	4.3457	6.5165	8.6913	11.5981	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	3.414E-06	6.829E-06	1.024E-05	1.369E-05	
	15	71.762	(ug/lb picked)	176.25	2.0694	4.1389	6.2063	8.2778	11.1866	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	3.252E-06	6.504E-06	9.798E-06	1.301E-05	
	16	68.177	(ug/lb picked)	167.44	1.9661	3.9321	5.8962	7.8642	10.7794	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	3.090E-06	6.179E-06	9.288E-06	1.232E-05	
	17	64.592	(ug/lb picked)	158.64	1.8627	3.7253	5.5860	7.4507	10.3702	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	2.928E-06	5.854E-06	8.781E-06	1.171E-05	
	18	61.007	(ug/lb picked)	149.83	1.7593	3.5186	5.2779	6.9377	9.9626	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	2.766E-06	5.529E-06	8.294E-06	1.109E-05	
	19	57.422	(ug/lb picked)	141.03	1.6559	3.3118	4.9677	6.4248	9.5548	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	2.604E-06	5.204E-06	7.808E-06	1.041E-05	
	20	53.837	(ug/lb picked)	132.22	1.5525	3.1050	4.6578	6.0101	9.1474	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	2.442E-06	4.879E-06	7.319E-06	9.798E-06	
	21	50.252	(ug/lb picked)	123.42	1.4491	2.8983	4.3474	5.7065	8.7395	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	2.277E-06	4.554E-06	6.832E-06	9.108E-06	
	22	46.667	(ug/lb picked)	114.61	1.3458	2.6915	4.0373	5.3030	8.3303	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	2.115E-06	4.230E-06	6.344E-06	8.459E-06	
	23	43.081	(ug/lb picked)	105.81	1.2424	2.4847	3.7271	4.8965	7.9116	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	1.952E-06	3.905E-06	5.857E-06	7.808E-06	
	24	39.496	(ug/lb picked)	97.00	1.1390	2.2780	3.4168	4.5059	7.5000	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	1.790E-06	3.580E-06	5.350E-06	7.198E-06	
	25	35.911	(ug/lb picked)	88.20	1.0356	2.0712	3.1068	4.1234	7.0866	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	1.627E-06	3.255E-06	4.845E-06	6.506E-06	
	26	32.326	(ug/lb picked)	79.39	0.9322	1.8644	2.7968	3.7286	6.6726	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	1.465E-06	2.930E-06	4.365E-06	5.800E-06	
	27	28.741	(ug/lb picked)	70.58	0.8289	1.6577	2.4865	3.3153	6.2610	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	1.302E-06	2.605E-06	3.807E-06	5.210E-06	
	28	25.158	(ug/lb picked)	61.78	0.7254	1.4508	2.1703	2.9018	5.8466	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	1.140E-06	2.280E-06	3.420E-06	4.590E-06	
	29	21.571	(ug/lb picked)	52.96	0.6221	1.2441	1.8692	2.4882	5.4300	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	1.000E-06	1.955E-06	2.833E-06	3.810E-06	
	30	17.986	(ug/lb picked)	44.17	0.5187	1.0373	1.5590	2.0747	4.0756	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	8.779E-07	1.630E-06	2.445E-06	3.290E-06	
	31	14.401	(ug/lb picked)	35.37	0.4153	0.8306	1.2459	1.6012	3.263E-06	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	7.558E-07	1.305E-06	1.908E-06	2.610E-06	
	32	10.816	(ug/lb picked)	26.59	0.3119	0.6226	0.9357	1.2476	2.451E-06	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	6.341E-07	1.000E-06	1.470E-06	1.981E-06	
	33	7.231	(ug/lb picked)	17.78	0.2065	0.4170	0.6256	0.8341	1.638E-06	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	5.127E-07	8.533E-07	1.240E-06	1.611E-06	
	34	3.646	(ug/lb picked)	8.95	0.1051	0.2103	0.3154	0.4205	0.280E-07	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	3.912E-07	6.341E-07	9.000E-07	1.191E-06	
	35	0.061	(ug/lb picked)	0.15	0.0017	0.0035	0.0052	0.0070	0.0070	2.044E-05	5.888E-05	8.532E-05	1.138E-04	1.422E-04	2.747E-08	4.589E-08	5.242E-08	6.989E-08	

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day)-1] * (DERMAL ABS. FACTOR/100)/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISSEMINABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
				(mg/day)					(mg/day)					(mg/kg/day):				
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	CHLOROTHALONIL Q1*	AVERAGE WEIGHT:	DERMAL ABS. FACT. #1 (%)	DERMAL ABS. FACT. #2 (%)	
TOTAL INSIDE	0	125.538	(ug/lb picked)	5.4303	10.8606	16.2910	21.7213	4.2671E-05	8.5336E-05	1.2801E-04	1.7071E-04	2.1295E-04	2.5506E-04	9.530E-06	1.707E-05	2.300E-05	3.413E-05	0.011
	1	121.953	(ug/lb picked)	5.2752	10.5505	15.8257	21.1010	4.144E-05	8.288E-05	1.242E-04	1.656E-04	2.070E-04	2.484E-04	8.290E-06	1.656E-05	2.247E-05	3.318E-05	70
	2	115.368	(ug/lb picked)	5.1202	10.2403	15.3605	20.4807	4.026E-05	8.048E-05	1.207E-04	1.609E-04	2.014E-04	2.414E-04	8.048E-06	1.609E-05	2.141E-05	3.108E-05	5
	3	114.783	(ug/lb picked)	4.9651	9.9302	14.8953	19.8604	3.901E-05	7.802E-05	1.170E-04	1.560E-04	1.950E-04	2.341E-04	7.802E-06	1.560E-05	2.082E-05	3.121E-05	1
	4	111.198	(ug/lb picked)	4.8100	9.6200	14.4300	19.2401	3.779E-05	7.558E-05	1.134E-04	1.512E-04	1.891E-04	2.268E-04	7.558E-06	1.512E-05	2.008E-05	3.022E-05	
	5	107.813	(ug/lb picked)	4.6549	9.3099	13.9648	18.6188	3.657E-05	7.315E-05	1.097E-04	1.483E-04	1.862E-04	2.240E-04	7.315E-06	1.483E-05	1.944E-05	2.928E-05	
	6	104.028	(ug/lb picked)	4.4999	8.9997	13.4998	17.9994	3.536E-05	7.071E-05	1.061E-04	1.443E-04	1.822E-04	2.200E-04	7.071E-06	1.443E-05	1.912E-05	2.828E-05	
	7	100.443	(ug/lb picked)	4.3448	8.6896	13.0344	17.3781	3.414E-05	6.828E-05	1.024E-04	1.398E-04	1.776E-04	2.154E-04	6.828E-06	1.398E-05	1.868E-05	2.731E-05	
	8	96.658	(ug/lb picked)	4.1897	8.3794	12.5691	16.7588	3.292E-05	6.584E-05	9.878E-05	1.317E-04	1.695E-04	2.073E-04	6.584E-06	1.317E-05	1.795E-05	2.644E-05	
	9	93.273	(ug/lb picked)	4.0346	8.0693	12.1038	16.1385	3.170E-05	6.340E-05	9.510E-05	1.280E-04	1.656E-04	2.032E-04	6.340E-06	1.280E-05	1.702E-05	2.536E-05	
	10	89.687	(ug/lb picked)	3.8795	7.7591	11.6387	15.5182	3.048E-05	6.096E-05	9.145E-05	1.219E-04	1.595E-04	1.970E-04	6.096E-06	1.219E-05	1.629E-05	2.439E-05	
	11	86.102	(ug/lb picked)	3.7245	7.4490	11.1734	14.9078	2.926E-05	5.853E-05	8.770E-05	1.171E-04	1.542E-04	1.917E-04	5.853E-06	1.171E-05	1.556E-05	2.341E-05	
	12	82.517	(ug/lb picked)	3.5694	7.1386	10.7082	14.2778	2.805E-05	5.609E-05	8.414E-05	1.122E-04	1.493E-04	1.868E-04	5.609E-06	1.122E-05	1.483E-05	2.244E-05	
	13	78.932	(ug/lb picked)	3.4143	6.8288	10.2430	13.6573	2.683E-05	5.365E-05	8.048E-05	1.073E-04	1.443E-04	1.818E-04	5.365E-06	1.073E-05	1.410E-05	2.148E-05	
	14	75.347	(ug/lb picked)	3.2592	6.5185	9.7777	13.0370	2.561E-05	5.122E-05	7.693E-05	1.024E-04	1.398E-04	1.776E-04	5.122E-06	1.024E-05	1.337E-05	2.048E-05	
	15	71.762	(ug/lb picked)	3.1042	6.2083	9.3125	12.4167	2.439E-05	4.878E-05	7.317E-05	9.756E-05	1.280E-04	1.656E-04	4.878E-06	9.756E-06	1.400E-05	1.951E-05	
	16	68.177	(ug/lb picked)	2.9491	5.8982	8.8473	11.7984	2.317E-05	4.634E-05	6.910E-05	9.010E-05	1.171E-04	1.542E-04	4.634E-06	9.010E-06	1.317E-05	1.854E-05	
	17	64.592	(ug/lb picked)	2.7940	5.5880	8.3820	11.1760	2.195E-05	4.391E-05	6.585E-05	8.781E-05	1.122E-04	1.493E-04	4.391E-06	8.781E-06	1.244E-05	1.759E-05	
	18	61.007	(ug/lb picked)	2.6389	5.2779	7.9168	10.5557	2.073E-05	4.147E-05	6.230E-05	8.284E-05	1.122E-04	1.493E-04	4.147E-06	8.284E-06	1.244E-05	1.659E-05	
	19	57.422	(ug/lb picked)	2.4838	4.9677	7.4518	9.9394	1.951E-05	3.903E-05	5.855E-05	7.808E-05	1.024E-04	1.337E-04	3.903E-06	7.808E-06	1.171E-05	1.561E-05	
	20	53.837	(ug/lb picked)	2.3288	4.6576	6.9863	9.3151	1.830E-05	3.660E-05	5.490E-05	7.319E-05	1.024E-04	1.337E-04	3.660E-06	7.319E-06	1.086E-05	1.464E-05	
	21	50.252	(ug/lb picked)	2.1737	4.3474	6.5211	8.6948	1.708E-05	3.418E-05	5.124E-05	6.832E-05	9.510E-05	1.280E-04	3.418E-06	6.832E-06	1.025E-05	1.366E-05	
	22	46.667	(ug/lb picked)	2.0186	4.0373	6.0559	8.0748	1.586E-05	3.172E-05	4.759E-05	6.344E-05	8.517E-05	1.171E-04	3.172E-06	6.344E-06	9.510E-05	1.286E-05	
	23	43.081	(ug/lb picked)	1.8635	3.7271	5.5908	7.4542	1.464E-05	2.928E-05	4.393E-05	5.857E-05	8.284E-05	1.122E-04	2.928E-06	5.857E-06	8.284E-05	1.171E-05	
	24	39.496	(ug/lb picked)	1.7085	3.4168	5.1254	6.8338	1.342E-05	2.685E-05	4.027E-05	5.398E-05	7.319E-05	1.024E-04	2.685E-06	5.398E-06	7.319E-05	1.074E-05	
	25	35.911	(ug/lb picked)	1.5534	3.1068	4.6602	6.2138	1.221E-05	2.441E-05	3.692E-05	4.882E-05	6.585E-05	8.781E-05	2.441E-06	4.882E-06	6.585E-05	9.784E-05	
	26	32.326	(ug/lb picked)	1.3983	2.7968	4.1950	5.5933	1.099E-05	2.197E-05	3.290E-05	4.393E-05	5.857E-05	7.808E-05	2.197E-06	4.393E-06	5.857E-05	8.784E-05	
	27	28.741	(ug/lb picked)	1.2432	2.4865	3.7297	4.8730	9.788E-06	1.954E-05	2.900E-05	3.907E-05	5.124E-05	6.832E-05	1.954E-06	3.907E-06	5.124E-05	7.819E-05	
	28	25.156	(ug/lb picked)	1.0882	2.1783	3.2645	4.2527	8.590E-06	1.710E-05	2.596E-05	3.420E-05	4.510E-05	5.857E-05	1.710E-06	3.420E-06	4.510E-05	6.840E-05	
	29	21.571	(ug/lb picked)	0.9331	1.8692	2.7993	3.7329	7.331E-06	1.466E-05	2.196E-05	2.933E-05	3.844E-05	5.124E-05	1.466E-06	2.933E-06	3.844E-05	5.895E-05	
	30	17.986	(ug/lb picked)	0.7780	1.5590	2.3340	3.1120	6.115E-06	1.220E-05	1.834E-05	2.443E-05	3.248E-05	4.268E-05	1.220E-06	2.443E-06	3.248E-05	4.800E-05	
	31	14.401	(ug/lb picked)	0.6228	1.2458	1.8688	2.4817	4.894E-06	9.788E-06	1.466E-05	1.954E-05	2.596E-05	3.420E-05	9.788E-06	1.954E-06	2.596E-05	3.918E-05	
	32	10.816	(ug/lb picked)	0.4679	0.9357	1.4038	1.8714	3.678E-06	7.352E-06	1.103E-05	1.470E-05	1.954E-05	2.596E-05	7.352E-06	1.470E-06	2.596E-05	3.918E-05	
	33	7.231	(ug/lb picked)	0.3128	0.6256	0.9383	1.2511	2.458E-06	4.915E-06	7.373E-06	9.830E-06	1.317E-05	1.776E-05	4.915E-06	9.830E-06	1.317E-05	1.776E-05	
	34	3.646	(ug/lb picked)	0.1577	0.3154	0.4731	0.6308	1.239E-06	2.478E-06	3.717E-06	4.950E-06	6.585E-06	8.781E-06	2.478E-06	4.950E-06	6.585E-06	8.781E-06	
	35	0.061	(ug/lb picked)	0.0028	0.0052	0.0079	0.0108	2.081E-06	4.121E-06	6.182E-06	8.243E-06	1.093E-05	1.457E-05	4.121E-06	8.243E-06	1.093E-05	1.457E-05	

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/BODY WEIGHT (kg)

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS
EXPOSURES CALCULATED BASED ON FOR (ug/cm²) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS										
				(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)										
TOTAL INSIDE	0	124.479	(ug/lb picked)	305.72	1.7948	3.5897	5.3845	7.1783	DERMAL ABSORPTION FACTOR #1	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #2	15 DAYS	30 DAYS	45 DAYS	60 DAYS
1	121.300	(ug/lb picked)	297.81	1.7480	3.4890	5.2470	6.9980	8.7480	0.481E-04	2.832E-04	5.641E-04	8.481E-04	1.128E-03	1.410E-04	2.820E-04	4.231E-04	5.641E-04	7.051E-04
2	118.121	(ug/lb picked)	290.11	1.7032	3.4083	5.1095	6.8127	8.5159	0.481E-04	2.748E-04	5.487E-04	8.248E-04	1.099E-03	1.374E-04	2.748E-04	4.128E-04	5.487E-04	6.8127E-04
3	114.943	(ug/lb picked)	282.30	1.6573	3.3147	4.9720	6.6230	8.2740	0.481E-04	2.658E-04	5.396E-04	8.156E-04	1.092E-03	1.302E-04	2.658E-04	4.006E-04	5.396E-04	6.6230E-04
4	111.764	(ug/lb picked)	274.48	1.6115	3.2200	4.8345	6.4855	8.1365	0.481E-04	2.568E-04	5.306E-04	8.066E-04	1.085E-03	1.260E-04	2.568E-04	3.906E-04	5.266E-04	6.516E-04
5	108.585	(ug/lb picked)	266.66	1.5657	3.1313	4.6970	6.3480	7.9990	0.481E-04	2.478E-04	5.218E-04	7.978E-04	1.078E-03	1.228E-04	2.478E-04	3.816E-04	5.116E-04	6.416E-04
6	105.406	(ug/lb picked)	258.84	1.5199	3.0397	4.5595	6.2100	7.8600	0.481E-04	2.388E-04	5.128E-04	7.888E-04	1.071E-03	1.196E-04	2.388E-04	3.726E-04	5.026E-04	6.326E-04
7	102.227	(ug/lb picked)	251.07	1.4740	2.9480	4.4220	6.0710	7.7220	0.481E-04	2.298E-04	5.038E-04	7.798E-04	1.064E-03	1.164E-04	2.298E-04	3.636E-04	4.946E-04	6.246E-04
8	99.046	(ug/lb picked)	243.28	1.4282	2.8563	4.2845	5.9355	7.5865	0.481E-04	2.208E-04	4.948E-04	7.708E-04	1.057E-03	1.132E-04	2.208E-04	3.546E-04	4.866E-04	6.166E-04
9	95.870	(ug/lb picked)	235.48	1.3823	2.7648	4.1470	5.7980	7.4490	0.481E-04	2.118E-04	4.858E-04	7.618E-04	1.050E-03	1.100E-04	2.118E-04	3.456E-04	4.776E-04	6.076E-04
10	92.691	(ug/lb picked)	227.68	1.3365	2.6733	4.0085	5.6595	7.3100	0.481E-04	2.028E-04	4.768E-04	7.528E-04	1.043E-03	1.068E-04	2.028E-04	3.366E-04	4.686E-04	5.986E-04
11	89.512	(ug/lb picked)	219.84	1.2907	2.5819	3.8720	5.5130	7.1640	0.481E-04	1.938E-04	4.678E-04	7.438E-04	1.036E-03	1.036E-04	1.938E-04	3.276E-04	4.596E-04	5.896E-04
12	86.333	(ug/lb picked)	212.03	1.2448	2.4904	3.7345	5.3645	6.9750	0.481E-04	1.848E-04	4.588E-04	7.348E-04	1.029E-03	1.009E-04	1.848E-04	3.186E-04	4.506E-04	5.806E-04
13	83.154	(ug/lb picked)	204.23	1.1990	2.3989	3.5970	5.2150	6.8260	0.481E-04	1.758E-04	4.498E-04	7.258E-04	1.022E-03	9.89E-05	1.758E-04	3.096E-04	4.416E-04	5.716E-04
14	79.976	(ug/lb picked)	196.42	1.1532	2.3073	3.4585	4.9760	6.5270	0.481E-04	1.668E-04	4.408E-04	7.168E-04	1.015E-03	9.60E-05	1.668E-04	3.006E-04	4.326E-04	5.626E-04
15	76.797	(ug/lb picked)	188.61	1.1073	2.2160	3.3220	4.7370	6.2880	0.481E-04	1.578E-04	4.318E-04	7.078E-04	1.008E-03	9.31E-05	1.578E-04	2.916E-04	4.236E-04	5.536E-04
16	73.618	(ug/lb picked)	180.81	1.0615	2.1250	3.1844	4.5980	6.1490	0.481E-04	1.488E-04	4.228E-04	6.988E-04	1.001E-03	9.02E-05	1.488E-04	2.826E-04	4.146E-04	5.446E-04
17	70.439	(ug/lb picked)	173.00	1.0156	2.0315	3.0468	4.4590	5.9100	0.481E-04	1.398E-04	4.138E-04	6.898E-04	9.94E-05	8.73E-05	1.398E-04	2.736E-04	4.056E-04	5.356E-04
18	67.260	(ug/lb picked)	165.19	0.9698	1.9380	2.9094	4.3200	5.7710	0.481E-04	1.308E-04	4.048E-04	6.808E-04	9.87E-05	8.44E-05	1.308E-04	2.646E-04	3.966E-04	5.266E-04
19	64.082	(ug/lb picked)	157.38	0.9240	1.8460	2.7718	4.1810	5.6320	0.481E-04	1.218E-04	3.958E-04	6.718E-04	9.80E-05	8.15E-05	1.218E-04	2.556E-04	3.876E-04	5.176E-04
20	60.903	(ug/lb picked)	149.56	0.8781	1.7544	2.6344	4.0420	5.4930	0.481E-04	1.128E-04	3.868E-04	6.628E-04	9.73E-05	7.86E-05	1.128E-04	2.466E-04	3.786E-04	5.086E-04
21	57.724	(ug/lb picked)	141.77	0.8323	1.6648	2.4968	3.9030	5.3540	0.481E-04	1.038E-04	3.778E-04	6.538E-04	9.66E-05	7.57E-05	1.038E-04	2.376E-04	3.696E-04	5.000E-04
22	54.545	(ug/lb picked)	133.96	0.7865	1.5750	2.3594	3.7640	5.2150	0.481E-04	9.48E-05	3.688E-04	6.448E-04	9.59E-05	7.28E-05	9.48E-05	2.286E-04	3.606E-04	4.910E-04
23	51.366	(ug/lb picked)	126.16	0.7406	1.4813	2.2218	3.6250	5.0760	0.481E-04	8.58E-05	3.598E-04	6.358E-04	9.52E-05	7.00E-05	8.58E-05	2.196E-04	3.516E-04	4.820E-04
24	48.188	(ug/lb picked)	118.35	0.6948	1.3898	2.0844	3.4860	4.9370	0.481E-04	7.68E-05	3.508E-04	6.268E-04	9.45E-05	6.71E-05	7.68E-05	2.106E-04	3.426E-04	4.730E-04
25	45.009	(ug/lb picked)	110.54	0.6490	1.2979	1.9468	3.3470	4.7980	0.481E-04	6.78E-05	3.418E-04	6.178E-04	9.38E-05	6.42E-05	6.78E-05	2.016E-04	3.336E-04	4.640E-04
26	41.830	(ug/lb picked)	102.73	0.6031	1.2063	1.8094	3.2080	4.6590	0.481E-04	5.88E-05	3.328E-04	6.088E-04	9.31E-05	6.13E-05	5.88E-05	1.926E-04	3.246E-04	4.550E-04
27	38.651	(ug/lb picked)	94.93	0.5573	1.1148	1.6718	3.0690	4.5200	0.481E-04	4.98E-05	3.238E-04	6.000E-04	9.24E-05	5.84E-05	4.98E-05	1.836E-04	3.156E-04	4.460E-04
28	35.472	(ug/lb picked)	87.12	0.5115	1.0228	1.5344	2.9300	4.3810	0.481E-04	4.08E-05	3.148E-04	5.912E-04	9.17E-05	5.55E-05	4.08E-05	1.746E-04	3.066E-04	4.370E-04
29	32.294	(ug/lb picked)	79.31	0.4656	0.9313	1.3968	2.7910	4.2420	0.481E-04	3.18E-05	3.058E-04	5.824E-04	9.10E-05	5.26E-05	3.18E-05	1.656E-04	2.976E-04	4.280E-04
30	29.115	(ug/lb picked)	71.51	0.4198	0.8396	1.2594	2.6520	4.1030	0.481E-04	2.28E-05	2.968E-04	5.736E-04	9.03E-05	4.97E-05	2.28E-05	1.566E-04	2.886E-04	4.190E-04
31	25.936	(ug/lb picked)	63.70	0.3740	0.7479	1.1218	2.5130	3.9640	0.481E-04	1.38E-05	2.878E-04	5.648E-04	8.96E-05	4.68E-05	1.38E-05	1.476E-04	2.796E-04	4.100E-04
32	22.757	(ug/lb picked)	55.89	0.3281	0.6563	0.9944	2.3740	3.8250	0.481E-04	4.88E-06	2.788E-04	5.560E-04	8.89E-05	4.39E-05	4.88E-06	1.386E-04	2.706E-04	4.010E-04
33	19.578	(ug/lb picked)	48.08	0.2823	0.5646	0.8468	2.2350	3.6860	0.481E-04	3.98E-06	2.698E-04	5.472E-04	8.82E-05	4.30E-05	3.98E-06	1.296E-04	2.616E-04	3.920E-04
34	16.400	(ug/lb picked)	40.28	0.2365	0.4729	0.7094	2.0960	3.5470	0.481E-04	3.08E-06	2.608E-04	5.384E-04	8.75E-05	4.21E-05	3.08E-06	1.206E-04	2.526E-04	3.830E-04
35	13.221	(ug/lb picked)	32.47	0.1908	0.3813	0.5718	1.9570	3.4080	0.481E-04	2.18E-06	2.518E-04	5.296E-04	8.68E-05	4.12E-05	2.18E-06	1.116E-04	2.436E-04	3.740E-04

NOTES:

- * (ug/lb) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoe picked) * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (807 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- * RISK = (LADE (mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100))/[BODY WEIGHT (kg)]

REVIEW OF CHLOROTHALONIL FOIAR DISLOSAGEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS
EXPOSURES CALCULATED BASED ON FOR (ug/cm2) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS										
TOTAL INSIDE	0	124 478	(ug/lb picked)	305.72	3.5087	7.1793	10.7690	14.3587	17.9484	1.782E-03	3.564E-03	5.346E-03	7.128E-03	8.910E-03	1.069E-02	1.247E-02	1.425E-02	1.603E-02	1.781E-02
	1	121 300	(ug/lb picked)	297.81	3.4680	6.9980	10.4940	13.9920	17.4880	1.762E-03	3.514E-03	5.296E-03	7.078E-03	8.860E-03	1.064E-02	1.242E-02	1.420E-02	1.598E-02	1.776E-02
	2	119 121	(ug/lb picked)	290.11	3.4083	6.8127	10.2180	13.6283	17.0440	1.742E-03	3.464E-03	5.236E-03	7.018E-03	8.798E-03	1.052E-02	1.228E-02	1.406E-02	1.584E-02	1.762E-02
	3	114 943	(ug/lb picked)	282.30	3.3147	6.6293	9.9440	13.2587	16.5740	1.722E-03	3.414E-03	5.186E-03	6.966E-03	8.746E-03	1.042E-02	1.218E-02	1.396E-02	1.574E-02	1.752E-02
	4	111 764	(ug/lb picked)	274.49	3.2230	6.4440	9.6690	12.9820	16.3040	1.702E-03	3.364E-03	5.138E-03	6.918E-03	8.698E-03	1.022E-02	1.208E-02	1.386E-02	1.564E-02	1.742E-02
	5	108 585	(ug/lb picked)	266.88	3.1313	6.2527	9.3940	12.7020	16.0240	1.682E-03	3.314E-03	5.090E-03	6.870E-03	8.650E-03	1.002E-02	1.188E-02	1.366E-02	1.544E-02	1.722E-02
	6	105 406	(ug/lb picked)	259.88	3.0397	6.0773	9.1190	12.4220	15.7440	1.662E-03	3.264E-03	5.042E-03	6.822E-03	8.598E-03	9.820E-03	1.168E-02	1.346E-02	1.524E-02	1.702E-02
	7	102 227	(ug/lb picked)	251.07	2.9480	5.8959	8.8440	12.1420	15.4640	1.642E-03	3.214E-03	4.994E-03	6.772E-03	8.558E-03	9.620E-03	1.148E-02	1.326E-02	1.504E-02	1.682E-02
	8	99 048	(ug/lb picked)	243.28	2.8563	5.7128	8.5690	11.8620	15.1840	1.622E-03	3.164E-03	4.946E-03	6.722E-03	8.508E-03	9.420E-03	1.128E-02	1.306E-02	1.484E-02	1.662E-02
	9	95 870	(ug/lb picked)	235.48	2.7646	5.5263	8.2938	11.5820	14.9040	1.602E-03	3.114E-03	4.898E-03	6.672E-03	8.458E-03	9.220E-03	1.108E-02	1.286E-02	1.464E-02	1.642E-02
	10	92 691	(ug/lb picked)	227.68	2.6730	5.3408	8.0180	11.3020	14.6240	1.582E-03	3.064E-03	4.850E-03	6.622E-03	8.408E-03	9.020E-03	1.088E-02	1.266E-02	1.444E-02	1.622E-02
	11	89 512	(ug/lb picked)	219.84	2.5813	5.1528	7.7430	11.0220	14.3440	1.562E-03	3.014E-03	4.802E-03	6.572E-03	8.358E-03	8.820E-03	1.068E-02	1.246E-02	1.424E-02	1.602E-02
	12	86 333	(ug/lb picked)	212.03	2.4896	4.9703	7.4680	10.7420	14.0640	1.542E-03	2.964E-03	4.754E-03	6.522E-03	8.308E-03	8.620E-03	1.048E-02	1.226E-02	1.404E-02	1.582E-02
	13	83 154	(ug/lb picked)	204.23	2.3980	4.7859	7.1930	10.4620	13.7840	1.522E-03	2.914E-03	4.706E-03	6.472E-03	8.258E-03	8.420E-03	1.028E-02	1.206E-02	1.384E-02	1.562E-02
	14	79 976	(ug/lb picked)	196.42	2.3063	4.6028	6.9180	10.1820	13.5040	1.502E-03	2.864E-03	4.658E-03	6.422E-03	8.208E-03	8.220E-03	1.008E-02	1.186E-02	1.364E-02	1.542E-02
	15	76 797	(ug/lb picked)	188.61	2.2146	4.4203	6.6430	9.9020	13.2240	1.482E-03	2.814E-03	4.610E-03	6.372E-03	8.158E-03	8.020E-03	9.820E-03	1.168E-02	1.346E-02	1.524E-02
	16	73 618	(ug/lb picked)	180.81	2.1230	4.2358	6.3680	9.6220	12.9440	1.462E-03	2.764E-03	4.562E-03	6.322E-03	8.108E-03	7.820E-03	9.620E-03	1.148E-02	1.326E-02	1.504E-02
	17	70 439	(ug/lb picked)	173.00	2.0313	4.0528	6.0930	9.3420	12.6640	1.442E-03	2.714E-03	4.514E-03	6.272E-03	8.058E-03	7.620E-03	9.420E-03	1.128E-02	1.306E-02	1.484E-02
	18	67 260	(ug/lb picked)	165.19	1.9398	3.8703	5.8180	9.0620	12.3840	1.422E-03	2.664E-03	4.466E-03	6.222E-03	7.998E-03	7.420E-03	9.220E-03	1.108E-02	1.286E-02	1.464E-02
	19	64 082	(ug/lb picked)	157.38	1.8480	3.6859	5.5430	8.7820	12.1040	1.402E-03	2.614E-03	4.418E-03	6.172E-03	7.948E-03	7.220E-03	9.020E-03	1.088E-02	1.266E-02	1.444E-02
	20	60 903	(ug/lb picked)	149.58	1.7563	3.5128	5.2680	8.5020	11.8240	1.382E-03	2.564E-03	4.370E-03	6.122E-03	7.898E-03	7.020E-03	8.820E-03	1.068E-02	1.246E-02	1.424E-02
	21	57 724	(ug/lb picked)	141.77	1.6646	3.3292	4.9930	8.2220	11.5440	1.362E-03	2.514E-03	4.322E-03	6.072E-03	7.848E-03	6.820E-03	8.620E-03	1.048E-02	1.226E-02	1.404E-02
	22	54 545	(ug/lb picked)	133.96	1.5730	3.1458	4.7180	7.9420	11.2640	1.342E-03	2.464E-03	4.274E-03	6.022E-03	7.798E-03	6.620E-03	8.420E-03	1.028E-02	1.206E-02	1.384E-02
	23	51 366	(ug/lb picked)	126.16	1.4813	2.9628	4.4430	7.6620	10.9840	1.322E-03	2.414E-03	4.226E-03	5.972E-03	7.748E-03	6.420E-03	8.220E-03	1.008E-02	1.186E-02	1.364E-02
	24	48 185	(ug/lb picked)	118.35	1.3898	2.7792	4.1680	7.3820	10.7040	1.302E-03	2.364E-03	4.178E-03	5.922E-03	7.698E-03	6.220E-03	8.020E-03	9.820E-03	1.168E-02	1.346E-02
	25	45 009	(ug/lb picked)	110.54	1.2979	2.5959	3.8930	7.1020	10.4240	1.282E-03	2.314E-03	4.130E-03	5.872E-03	7.648E-03	6.020E-03	7.820E-03	9.620E-03	1.148E-02	1.326E-02
	26	41 830	(ug/lb picked)	102.73	1.2063	2.4128	3.6180	6.8220	10.1440	1.262E-03	2.264E-03	4.082E-03	5.822E-03	7.598E-03	5.820E-03	7.620E-03	9.420E-03	1.128E-02	1.306E-02
	27	38 651	(ug/lb picked)	94.93	1.1146	2.2292	3.3430	6.5420	9.8640	1.242E-03	2.214E-03	4.034E-03	5.772E-03	7.548E-03	5.620E-03	7.420E-03	9.220E-03	1.108E-02	1.286E-02
	28	35 472	(ug/lb picked)	87.12	1.0229	2.0459	3.0680	6.2620	9.5840	1.222E-03	2.164E-03	3.986E-03	5.722E-03	7.498E-03	5.420E-03	7.220E-03	9.020E-03	1.088E-02	1.266E-02
	29	32 294	(ug/lb picked)	79.31	0.9313	1.8625	2.7930	5.9820	9.3040	1.202E-03	2.114E-03	3.938E-03	5.672E-03	7.448E-03	5.220E-03	7.020E-03	8.820E-03	1.068E-02	1.246E-02
	30	29 115	(ug/lb picked)	71.51	0.8398	1.6792	2.5180	5.7020	9.0240	1.182E-03	2.064E-03	3.890E-03	5.622E-03	7.398E-03	5.020E-03	6.820E-03	8.620E-03	1.048E-02	1.226E-02
	31	25 938	(ug/lb picked)	63.70	0.7479	1.4958	2.2430	5.4220	8.7440	1.162E-03	2.014E-03	3.842E-03	5.572E-03	7.348E-03	4.820E-03	6.620E-03	8.420E-03	1.028E-02	1.206E-02
	32	22 757	(ug/lb picked)	55.88	0.6563	1.3125	1.9680	5.1420	8.4640	1.142E-03	1.964E-03	3.794E-03	5.522E-03	7.298E-03	4.620E-03	6.420E-03	8.220E-03	1.008E-02	1.186E-02
	33	19 578	(ug/lb picked)	48.08	0.5646	1.1292	1.6930	4.8620	8.1840	1.122E-03	1.914E-03	3.746E-03	5.472E-03	7.248E-03	4.420E-03	6.220E-03	8.020E-03	9.820E-03	1.168E-02
	34	16 400	(ug/lb picked)	40.28	0.4729	0.9458	1.4180	4.5820	7.9040	1.102E-03	1.864E-03	3.698E-03	5.422E-03	7.198E-03	4.220E-03	6.020E-03	7.820E-03	9.620E-03	1.148E-02
	35	13 221	(ug/lb picked)	32.47	0.3813	0.7625	1.1430	4.3020	7.6240	1.082E-03	1.814E-03	3.650E-03	5.372E-03	7.148E-03	4.020E-03	5.820E-03	7.620E-03	9.420E-03	1.128E-02

NOTES

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS
- * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365 days) * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]]
- * RISK = (LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100))/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISODGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS				
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	90 DAYS	DERMAL ABSORPTION FACTOR #1	DERMAL ABSORPTION FACTOR #2	15 DAYS	30 DAYS	45 DAYS	60 DAYS	CHLOROTHALONIL Q1* (mg/kg/day):	AVERAGE WEIGHT:	DERMAL ABS. FACT. #1 (%):	DERMAL ABS. FACT. #2 (%):
TOTAL INSIDE	0	124.478	(ug/lb picked)	3.5897	7.1793	10.7690	14.3587	17.9484	1.198E-04	2.396E-04	1.198E-04	2.396E-04	1.198E-04	2.396E-04	5.841E-05	1.802E-04	1.802E-04	1.802E-04
	1	121.300	(ug/lb picked)	3.4860	6.9690	10.4540	13.9320	17.4100	1.098E-04	2.196E-04	1.098E-04	2.196E-04	1.098E-04	2.196E-04	5.407E-05	1.696E-04	1.696E-04	1.696E-04
	2	119.121	(ug/lb picked)	3.4083	6.8167	10.2160	13.6220	17.141E-04	1.071E-04	2.142E-04	1.071E-04	2.142E-04	1.071E-04	2.142E-04	5.353E-05	1.671E-04	1.671E-04	1.671E-04
	3	114.943	(ug/lb picked)	3.3147	6.6293	9.8440	13.1207	16.5820	1.042E-04	2.084E-04	1.042E-04	2.084E-04	1.042E-04	2.084E-04	5.208E-05	1.642E-04	1.642E-04	1.642E-04
	4	111.784	(ug/lb picked)	3.2220	6.4460	9.6860	12.8920	16.3230	1.013E-04	2.026E-04	1.013E-04	2.026E-04	1.013E-04	2.026E-04	5.065E-05	1.613E-04	1.613E-04	1.613E-04
	5	108.585	(ug/lb picked)	3.1313	6.2627	9.5280	12.6230	16.0640	9.841E-05	1.968E-04	9.841E-05	1.968E-04	9.841E-05	1.968E-04	4.921E-05	1.584E-04	1.584E-04	1.584E-04
	6	105.408	(ug/lb picked)	3.0397	6.0793	9.3690	12.3540	15.8050	9.553E-05	1.911E-04	9.553E-05	1.911E-04	9.553E-05	1.911E-04	4.777E-05	1.555E-04	1.555E-04	1.555E-04
	7	102.227	(ug/lb picked)	2.9480	5.8960	9.2100	12.0850	15.5460	9.265E-05	1.853E-04	9.265E-05	1.853E-04	9.265E-05	1.853E-04	4.630E-05	1.526E-04	1.526E-04	1.526E-04
	8	99.046	(ug/lb picked)	2.8563	5.7126	8.9560	11.8160	15.2870	8.977E-05	1.795E-04	8.977E-05	1.795E-04	8.977E-05	1.795E-04	4.538E-05	1.497E-04	1.497E-04	1.497E-04
	9	95.870	(ug/lb picked)	2.7646	5.5293	8.7970	11.5470	15.0280	8.689E-05	1.736E-04	8.689E-05	1.736E-04	8.689E-05	1.736E-04	4.446E-05	1.468E-04	1.468E-04	1.468E-04
	10	92.691	(ug/lb picked)	2.6730	5.3460	8.6380	11.2780	14.7690	8.401E-05	1.678E-04	8.401E-05	1.678E-04	8.401E-05	1.678E-04	4.354E-05	1.439E-04	1.439E-04	1.439E-04
	11	89.512	(ug/lb picked)	2.5813	5.1626	8.4790	11.0090	14.5100	8.113E-05	1.620E-04	8.113E-05	1.620E-04	8.113E-05	1.620E-04	4.262E-05	1.410E-04	1.410E-04	1.410E-04
	12	86.333	(ug/lb picked)	2.4896	4.9793	8.3200	10.7400	14.2510	7.825E-05	1.561E-04	7.825E-05	1.561E-04	7.825E-05	1.561E-04	4.170E-05	1.381E-04	1.381E-04	1.381E-04
	13	83.154	(ug/lb picked)	2.3979	4.7959	8.1610	10.4710	13.9920	7.537E-05	1.502E-04	7.537E-05	1.502E-04	7.537E-05	1.502E-04	4.078E-05	1.352E-04	1.352E-04	1.352E-04
	14	79.976	(ug/lb picked)	2.3063	4.6126	7.9920	10.2020	13.7330	7.249E-05	1.443E-04	7.249E-05	1.443E-04	7.249E-05	1.443E-04	3.986E-05	1.323E-04	1.323E-04	1.323E-04
	15	76.797	(ug/lb picked)	2.2146	4.4293	7.8330	9.9330	13.4740	6.961E-05	1.384E-04	6.961E-05	1.384E-04	6.961E-05	1.384E-04	3.894E-05	1.294E-04	1.294E-04	1.294E-04
	16	73.618	(ug/lb picked)	2.1230	4.2459	7.6740	9.6640	13.2150	6.673E-05	1.325E-04	6.673E-05	1.325E-04	6.673E-05	1.325E-04	3.802E-05	1.265E-04	1.265E-04	1.265E-04
	17	70.439	(ug/lb picked)	2.0313	4.0626	7.5150	9.3950	12.9560	6.385E-05	1.266E-04	6.385E-05	1.266E-04	6.385E-05	1.266E-04	3.710E-05	1.236E-04	1.236E-04	1.236E-04
	18	67.260	(ug/lb picked)	1.9396	3.8793	7.3560	9.1260	12.6970	6.097E-05	1.207E-04	6.097E-05	1.207E-04	6.097E-05	1.207E-04	3.618E-05	1.207E-04	1.207E-04	1.207E-04
	19	64.082	(ug/lb picked)	1.8479	3.6959	7.1970	8.8570	12.4380	5.809E-05	1.148E-04	5.809E-05	1.148E-04	5.809E-05	1.148E-04	3.526E-05	1.178E-04	1.178E-04	1.178E-04
	20	60.903	(ug/lb picked)	1.7563	3.5126	7.0380	8.5880	12.1790	5.521E-05	1.089E-04	5.521E-05	1.089E-04	5.521E-05	1.089E-04	3.434E-05	1.149E-04	1.149E-04	1.149E-04
	21	57.724	(ug/lb picked)	1.6646	3.3293	6.8790	8.3190	11.9200	5.233E-05	1.030E-04	5.233E-05	1.030E-04	5.233E-05	1.030E-04	3.342E-05	1.120E-04	1.120E-04	1.120E-04
	22	54.545	(ug/lb picked)	1.5730	3.1459	6.7200	8.0500	11.6610	4.945E-05	9.711E-05	4.945E-05	9.711E-05	4.945E-05	9.711E-05	3.250E-05	1.091E-04	1.091E-04	1.091E-04
	23	51.366	(ug/lb picked)	1.4813	2.9626	6.5610	7.7810	11.4020	4.657E-05	9.122E-05	4.657E-05	9.122E-05	4.657E-05	9.122E-05	3.158E-05	1.062E-04	1.062E-04	1.062E-04
	24	48.188	(ug/lb picked)	1.3896	2.7793	6.4020	7.5120	11.1430	4.369E-05	8.533E-05	4.369E-05	8.533E-05	4.369E-05	8.533E-05	3.066E-05	1.033E-04	1.033E-04	1.033E-04
	25	45.009	(ug/lb picked)	1.2979	2.5959	6.2430	7.2430	10.8840	4.081E-05	7.909E-05	4.081E-05	7.909E-05	4.081E-05	7.909E-05	2.974E-05	1.004E-04	1.004E-04	1.004E-04
	26	41.830	(ug/lb picked)	1.2063	2.4126	6.0840	6.9740	10.6250	3.791E-05	7.285E-05	3.791E-05	7.285E-05	3.791E-05	7.285E-05	2.882E-05	9.75E-05	9.75E-05	9.75E-05
	27	38.651	(ug/lb picked)	1.1146	2.2293	5.9250	6.7050	10.3660	3.503E-05	6.661E-05	3.503E-05	6.661E-05	3.503E-05	6.661E-05	2.790E-05	9.46E-05	9.46E-05	9.46E-05
	28	35.472	(ug/lb picked)	1.0230	2.0460	5.7660	6.4360	10.1070	3.215E-05	6.037E-05	3.215E-05	6.037E-05	3.215E-05	6.037E-05	2.698E-05	9.17E-05	9.17E-05	9.17E-05
	29	32.294	(ug/lb picked)	0.9313	1.8625	5.6070	6.1670	9.8480	2.927E-05	5.413E-05	2.927E-05	5.413E-05	2.927E-05	5.413E-05	2.606E-05	8.88E-05	8.88E-05	8.88E-05
	30	29.115	(ug/lb picked)	0.8396	1.6792	5.4480	5.8980	9.5890	2.639E-05	4.789E-05	2.639E-05	4.789E-05	2.639E-05	4.789E-05	2.514E-05	8.59E-05	8.59E-05	8.59E-05
	31	25.938	(ug/lb picked)	0.7479	1.4959	5.2890	5.6390	9.3300	2.351E-05	4.165E-05	2.351E-05	4.165E-05	2.351E-05	4.165E-05	2.422E-05	8.30E-05	8.30E-05	8.30E-05
	32	22.757	(ug/lb picked)	0.6563	1.3125	5.1300	5.3790	9.0710	2.063E-05	3.541E-05	2.063E-05	3.541E-05	2.063E-05	3.541E-05	2.330E-05	8.01E-05	8.01E-05	8.01E-05
	33	19.578	(ug/lb picked)	0.5646	1.1292	4.9710	5.1190	8.8120	1.774E-05	3.016E-05	1.774E-05	3.016E-05	1.774E-05	3.016E-05	2.238E-05	7.72E-05	7.72E-05	7.72E-05
	34	16.400	(ug/lb picked)	0.4729	0.9458	4.8120	4.9600	8.5530	1.486E-05	2.472E-05	1.486E-05	2.472E-05	1.486E-05	2.472E-05	2.146E-05	7.43E-05	7.43E-05	7.43E-05
	35	13.221	(ug/lb picked)	0.3813	0.7625	4.6530	4.8010	8.2940	1.198E-05	2.066E-05	1.198E-05	2.066E-05	1.198E-05	2.066E-05	2.054E-05	7.14E-05	7.14E-05	7.14E-05

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISODGEABLE RESIDUE/EXPOSURE STUDY

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm2) LEVELS

EXPOSURE PARAMETERS										TOXICOLOGICAL PARAMETERS																			
DAILY WORK HOURS:										CHLOROTHALONIL Q1* (mg/kg/day):																			
ANNUAL EXPOSURE (days):										AVERAGE WEIGHT:																			
TOTAL WORK INTERVAL (hrs):										DERMAL ABS. FACT. #1 (%):																			
AVERAGE LIFETIME (hrs):										DERMAL ABS. FACT. #2 (%):																			
AVERAGE PICKING RATE (lb/hour):																													
LADE CALCULATIONS										RISK ANALYSIS																			
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	15 DAYS					30 DAYS					45 DAYS					60 DAYS									
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	90 DAYS	105 DAYS	120 DAYS	135 DAYS	150 DAYS	165 DAYS	180 DAYS	195 DAYS	210 DAYS	225 DAYS	240 DAYS	255 DAYS	270 DAYS	285 DAYS	300 DAYS					
TOTAL INSIDE	0	124.478	(ug/lb picked)	305.72	5.3645	10.7690	16.1535	21.5380	26.9225	32.3070	37.6915	43.0760	48.4605	53.8450	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	1	121.300	(ug/lb picked)	297.91	5.2470	10.4940	15.7410	20.9880	26.2350	31.4820	36.7290	41.9760	47.2230	52.4700	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	2	116.121	(ug/lb picked)	290.11	5.1065	10.2160	15.3255	20.4350	25.5440	30.6530	35.7620	40.8710	45.9800	51.0890	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	3	114.943	(ug/lb picked)	282.30	4.9720	9.9440	14.9160	19.8880	24.8600	29.8320	34.8040	39.7760	44.7480	49.7200	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	4	111.764	(ug/lb picked)	274.49	4.8345	9.6690	14.5035	19.3380	24.1725	29.0070	33.8415	38.6760	43.5105	48.3450	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	5	108.565	(ug/lb picked)	266.68	4.6970	9.3940	14.0810	18.7680	23.4550	28.1420	32.8290	37.5160	42.2030	46.8900	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	6	105.408	(ug/lb picked)	258.88	4.5595	9.1190	13.6785	18.2378	22.7971	27.3564	31.9157	36.4750	41.0343	45.5936	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	7	102.227	(ug/lb picked)	251.07	4.4220	8.8440	13.2959	17.8552	22.4145	26.9738	31.5331	36.0924	40.6517	45.2110	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	8	99.048	(ug/lb picked)	243.26	4.2845	8.5690	12.8634	17.4227	21.9820	26.5413	31.1006	35.6599	40.2192	44.7785	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	9	95.870	(ug/lb picked)	235.46	4.1470	8.2939	12.4408	16.9999	21.5592	26.1185	30.6778	35.2371	39.7964	44.3557	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	10	92.691	(ug/lb picked)	227.65	4.0095	8.0168	12.0284	16.5875	21.1468	25.7061	30.2654	34.8247	39.3840	43.9433	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	11	89.512	(ug/lb picked)	219.84	3.8720	7.7439	11.6159	16.1750	20.7341	25.2932	29.8523	34.4114	38.9705	43.5296	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	12	86.333	(ug/lb picked)	212.03	3.7345	7.4689	11.2004	15.7595	20.3186	24.8777	29.4368	33.9959	38.5550	43.1141	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	13	83.154	(ug/lb picked)	204.23	3.5970	7.1939	10.7908	15.3499	20.0090	24.5681	29.1272	33.6863	38.2454	42.8045	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	14	79.976	(ug/lb picked)	196.42	3.4595	6.9189	10.3784	14.9375	19.5466	24.1057	28.6648	33.2239	37.7830	42.3421	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	15	76.797	(ug/lb picked)	188.61	3.3220	6.6438	9.9659	14.5250	19.0841	23.6432	28.2023	32.7614	37.3205	41.8796	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	16	73.618	(ug/lb picked)	180.81	3.1844	6.3689	9.5444	14.1005	18.6596	23.2187	27.7778	32.3369	36.8960	41.4551	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	17	70.439	(ug/lb picked)	173.00	3.0469	6.0939	9.1408	13.7178	18.2769	22.8360	27.3951	31.9542	36.5133	41.0724	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	18	67.260	(ug/lb picked)	165.19	2.9094	5.8188	8.7283	13.2768	17.8359	22.3950	26.9541	31.5132	36.0723	40.6314	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	19	64.082	(ug/lb picked)	157.38	2.7719	5.5438	8.3158	12.8178	17.3769	21.9360	26.4951	31.0542	35.6133	40.1724	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	20	60.903	(ug/lb picked)	149.58	2.6344	5.2688	7.9033	12.3768	16.9359	21.4950	26.0541	30.6132	35.1723	39.7314	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	21	57.724	(ug/lb picked)	141.77	2.4969	4.9938	7.4808	11.9377	16.4968	21.0559	25.6150	30.1741	34.7332	39.2923	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	22	54.545	(ug/lb picked)	133.96	2.3594	4.7188	7.0763	11.4977	16.0559	20.6150	25.1741	29.7332	34.2923	38.8514	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	23	51.366	(ug/lb picked)	126.16	2.2219	4.4438	6.8055	11.0577	15.6150	20.1741	24.7332	29.2923	33.8514	38.4105	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	24	48.188	(ug/lb picked)	118.35	2.0844	4.1688	6.4808	10.6177	15.1741	19.7332	24.2923	28.8514	33.4105	37.9696	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	25	45.009	(ug/lb picked)	110.54	1.9469	3.8938	6.1408	10.1768	14.7359	19.2950	23.8541	28.4132	32.9723	37.5314	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	26	41.830	(ug/lb picked)	102.73	1.8094	3.6188	5.9188	9.7368	14.2959	18.8550	23.4141	27.9732	32.5323	37.0914	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	27	38.651	(ug/lb picked)	94.93	1.6719	3.3438	5.5937	9.2968	13.8150	18.3741	22.9332	27.4923	32.0514	36.6105	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011
	28	35.472	(ug/lb picked)	87.12	1.5344	3.0688	5.3267	9.0177	13.3741	17.9332	22.4923	27.0514	31.6105	36.1696	0.706E-04	8.481E-05	1.692E-04	2.538E-04	3.385E-04	4.231E-04	5.077E-04	5.923E-04	6.769E-04	7.615E-04	8.461E-04	9.307E-04	1.0153E-03	1.1000E-03	0.011

REVIEW OF CHLOROTHALONIL FOLIAR DISODGEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS
EXPOSURES CALCULATED BASED ON FOR (ug/cm2) LEVELS

EXPOSURE PARAMETERS										TOXICOLOGICAL PARAMETERS									
DAILY WORK HOURS:					ANNUAL EXPOSURE (days):					CHLOROTHALONIL Q1* (mg/kg/day):					AVERAGE WEIGHT:				
TOTAL WORK INTERVAL (hrs):					AVERAGE LIFETIME (hrs):					DERMAL ABS. FACT. #1 (%):					DERMAL ABS. FACT. #2 (%):				
AVERAGE PICKING RATE (lb/hour):					15/20/45/70					0					70				
					10					5					1				
					70					307									
LADE CALCULATIONS										RISK ANALYSIS									
EXPOSURE		EXPOSURE		EXPOSURE		EXPOSURE		EXPOSURE		DERMAL ABSORPTION FACTOR #1		DERMAL ABSORPTION FACTOR #2		DERMAL ABSORPTION FACTOR #3		DERMAL ABSORPTION FACTOR #4		DERMAL ABSORPTION FACTOR #5	
STUDY	DAY	EXPOSURE	LEVELS	EXPOSURE	FACTOR	EXPOSURE	(mg/day)	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
TOTAL INSIDE																			
0	124.478	(ug/lb picked)		305.72	1.7848	3.5897	5.3845	7.1793	1.410E-05	2.820E-05	4.231E-05	5.641E-05	7.051E-05	8.461E-05	9.872E-05	1.128E-05	2.256E-05	3.384E-05	4.512E-05
1	121.300	(ug/lb picked)		297.81	1.7490	3.4980	5.2470	6.9960	1.374E-05	2.748E-05	4.122E-05	5.496E-05	6.870E-05	8.244E-05	9.618E-05	1.103E-05	2.206E-05	3.314E-05	4.422E-05
2	115.121	(ug/lb picked)		290.11	1.7032	3.4063	5.1085	6.8127	1.339E-05	2.678E-05	4.015E-05	5.333E-05	6.651E-05	7.969E-05	9.287E-05	1.071E-05	2.142E-05	3.213E-05	4.284E-05
3	114.943	(ug/lb picked)		282.30	1.6573	3.3147	4.9720	6.6263	1.302E-05	2.604E-05	3.907E-05	5.206E-05	6.505E-05	7.804E-05	9.103E-05	1.053E-05	2.106E-05	3.177E-05	4.248E-05
4	111.784	(ug/lb picked)		274.48	1.6115	3.2220	4.8345	6.4480	1.266E-05	2.532E-05	3.799E-05	5.089E-05	6.378E-05	7.677E-05	8.976E-05	1.039E-05	2.077E-05	3.148E-05	4.219E-05
5	106.585	(ug/lb picked)		266.88	1.5657	3.1313	4.6970	6.2827	1.230E-05	2.460E-05	3.690E-05	4.921E-05	6.152E-05	7.383E-05	8.614E-05	1.004E-05	2.028E-05	3.100E-05	4.171E-05
6	105.406	(ug/lb picked)		258.88	1.5198	3.0397	4.5595	6.0793	1.194E-05	2.390E-05	3.592E-05	4.777E-05	5.960E-05	7.143E-05	8.326E-05	9.719E-05	1.111E-05	2.192E-05	3.263E-05
7	102.227	(ug/lb picked)		251.07	1.4740	2.9480	4.4220	5.8890	1.158E-05	2.318E-05	3.474E-05	4.633E-05	5.793E-05	6.952E-05	8.111E-05	9.504E-05	1.089E-05	2.173E-05	3.244E-05
8	99.048	(ug/lb picked)		243.26	1.4282	2.8563	4.2845	5.7128	1.122E-05	2.246E-05	3.398E-05	4.489E-05	5.570E-05	6.651E-05	7.732E-05	8.994E-05	1.025E-05	2.104E-05	3.185E-05
9	95.870	(ug/lb picked)		235.48	1.3823	2.7646	4.1470	5.5480	1.086E-05	2.172E-05	3.290E-05	4.344E-05	5.399E-05	6.454E-05	7.509E-05	8.771E-05	1.002E-05	2.075E-05	3.156E-05
10	92.691	(ug/lb picked)		227.65	1.3365	2.6730	4.0095	5.3480	1.050E-05	2.100E-05	3.190E-05	4.200E-05	5.200E-05	6.200E-05	7.200E-05	8.400E-05	9.600E-05	1.080E-05	1.200E-05
11	89.512	(ug/lb picked)		219.84	1.2907	2.5813	3.8720	5.1828	1.014E-05	2.028E-05	3.042E-05	4.050E-05	5.050E-05	6.050E-05	7.050E-05	8.250E-05	9.450E-05	1.065E-05	1.185E-05
12	86.333	(ug/lb picked)		212.03	1.2448	2.4899	3.7345	4.9793	9.781E-06	1.956E-05	2.894E-05	3.832E-05	4.770E-05	5.708E-05	6.646E-05	7.584E-05	8.522E-05	9.460E-05	1.039E-05
13	83.154	(ug/lb picked)		204.23	1.1989	2.3980	3.5970	4.7658	9.421E-06	1.894E-05	2.804E-05	3.742E-05	4.680E-05	5.618E-05	6.556E-05	7.494E-05	8.432E-05	9.370E-05	1.030E-05
14	79.976	(ug/lb picked)		196.42	1.1530	2.3063	3.4595	4.6128	9.056E-06	1.832E-05	2.718E-05	3.604E-05	4.499E-05	5.394E-05	6.289E-05	7.184E-05	8.079E-05	8.974E-05	9.869E-05
15	76.797	(ug/lb picked)		188.61	1.1071	2.2148	3.3220	4.4283	8.691E-06	1.770E-05	2.610E-05	3.495E-05	4.390E-05	5.285E-05	6.180E-05	7.075E-05	7.970E-05	8.865E-05	9.760E-05
16	73.618	(ug/lb picked)		180.81	1.0612	2.1233	3.1844	4.2458	8.326E-06	1.708E-05	2.502E-05	3.387E-05	4.282E-05	5.177E-05	6.072E-05	6.967E-05	7.862E-05	8.757E-05	9.652E-05
17	70.439	(ug/lb picked)		173.00	1.0153	2.0318	3.0469	4.0828	7.961E-06	1.646E-05	2.394E-05	3.192E-05	4.077E-05	4.972E-05	5.867E-05	6.762E-05	7.657E-05	8.552E-05	9.447E-05
18	67.260	(ug/lb picked)		165.18	0.9694	1.9400	2.9089	3.8793	7.596E-06	1.584E-05	2.290E-05	3.090E-05	3.880E-05	4.675E-05	5.470E-05	6.265E-05	7.060E-05	7.855E-05	8.650E-05
19	64.082	(ug/lb picked)		157.36	0.9235	1.8496	2.7719	3.6959	7.230E-06	1.522E-05	2.178E-05	2.894E-05	3.684E-05	4.479E-05	5.274E-05	6.069E-05	6.864E-05	7.659E-05	8.454E-05
20	60.903	(ug/lb picked)		149.56	0.8776	1.7583	2.6344	3.5128	6.865E-06	1.460E-05	2.070E-05	2.760E-05	3.450E-05	4.140E-05	4.830E-05	5.520E-05	6.210E-05	6.900E-05	7.590E-05
21	57.724	(ug/lb picked)		141.77	0.8317	1.6669	2.4969	3.3292	6.500E-06	1.398E-05	1.992E-05	2.670E-05	3.360E-05	4.050E-05	4.740E-05	5.430E-05	6.120E-05	6.810E-05	7.500E-05
22	54.545	(ug/lb picked)		133.96	0.7858	1.5754	2.3594	3.1459	6.135E-06	1.336E-05	1.894E-05	2.570E-05	3.260E-05	3.950E-05	4.640E-05	5.330E-05	6.020E-05	6.710E-05	7.400E-05
23	51.366	(ug/lb picked)		126.16	0.7399	1.4839	2.2219	2.9568	5.770E-06	1.274E-05	1.832E-05	2.502E-05	3.192E-05	3.880E-05	4.570E-05	5.260E-05	5.950E-05	6.640E-05	7.330E-05
24	48.188	(ug/lb picked)		118.35	0.6940	1.3924	2.0844	2.7782	5.405E-06	1.212E-05	1.770E-05	2.440E-05	3.130E-05	3.820E-05	4.510E-05	5.200E-05	5.890E-05	6.580E-05	7.270E-05
25	45.009	(ug/lb picked)		110.54	0.6481	1.3009	1.9469	2.5959	5.040E-06	1.150E-05	1.628E-05	2.300E-05	3.090E-05	3.780E-05	4.470E-05	5.160E-05	5.850E-05	6.540E-05	7.230E-05
26	41.830	(ug/lb picked)		102.73	0.6021	1.2093	1.8094	2.4128	4.675E-06	1.088E-05	1.502E-05	2.170E-05	2.880E-05	3.570E-05	4.260E-05	4.950E-05	5.640E-05	6.330E-05	7.020E-05
27	38.651	(ug/lb picked)		94.93	0.5562	1.1178	1.7179	2.2292	4.310E-06	1.026E-05	1.422E-05	2.040E-05	2.690E-05	3.380E-05	4.070E-05	4.760E-05	5.450E-05	6.140E-05	6.830E-05
28	35.472	(ug/lb picked)		87.12	0.5103	1.0263	1.6264	2.0459	3.945E-06	9.640E-06	1.314E-05	1.890E-05	2.500E-05	3.110E-05	3.720E-05	4.330E-05	4.940E-05	5.550E-05	6.160E-05
29	32.294	(ug/lb picked)		79.31	0.4644	0.9348	1.5344	1.8719	3.580E-06	9.020E-06	1.208E-05	1.730E-05	2.340E-05	2.950E-05	3.560E-05	4.170E-05	4.780E-05	5.390E-05	6.000E-05
30	29.115	(ug/lb picked)		71.51	0.4185	0.8433	1.4439	1.7823	3.215E-06	8.400E-06	1.106E-05	1.600E-05	2.150E-05	2.700E-05	3.250E-05	3.800E-05	4.350E-05	4.900E-05	5.450E-05
31	25.936	(ug/lb picked)		63.70	0.3726	0.7518	1.3534	1.6872	2.850E-06	7.780E-06	1.008E-05	1.460E-05	1.990E-05	2.540E-05	3.090E-05	3.640E-05	4.190E-05	4.740E-05	5.290E-05
32	22.757	(ug/lb picked)		55.89	0.3267	0.6603	1.2629	1.4959	2.485E-06	7.160E-06	9.15E-06	1.310E-05	1.790E-05	2.270E-05	2.750E-05	3.230E-05	3.710E-05	4.190E-05	4.670E-05
33	19.578	(ug/lb picked)		48.08	0.2808	0.5693	1.1724	1.3125	2.150E-06	6.540E-06	8.15E-06	1.175E-05	1.650E-05	2.130E-05	2.610E-05	3.090E-05	3.570E-05	4.050E-05	4.530E-05
34	16.400	(ug/lb picked)		40.28	0.2349	0.4778	1.0819	1.1292	1.940E-06	5.920E-06	7.45E-06	1.031E-05	1.510E-05	1.990E-05	2.470E-05	2.950E-05	3.430E-05	3.910E-05	4.390E-05
35	13.221	(ug/lb picked)		32.47	0.1890	0.3863	0.9914	0.9453	1.730E-06	5.300E-06	6.75E-06	9.31E-06	1.390E-05	1.870E-05	2.350E-05	2.830E-05	3.310E-05	3.790E-05	4.270E-05

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (207 +/- 32 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/365) (days)] * [WORK INTERVAL (hr)/AVG. LIFETIME (hr)]
- RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR/1000)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISSEMINABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON PDR (ug/cm²) LEVELS

PPA SUPPORT TASK 2110.003																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS					TOXICOLOGICAL PARAMETERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #1	DERMAL ABSORPTION FACTOR #2	15 DAYS	30 DAYS	45 DAYS	60 DAYS	AVERAGE WEIGHT	DERMAL ABS. FACT. #1 (%)	DERMAL ABS. FACT. #2 (%)	0.011																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
TOTAL INSIDE	0	124.479	(ug/lb picked)	305.72	3.5897	7.1793	10.7680	14.3567	2.832E-05	5.641E-05	8.461E-05	1.128E-04	1.415E-04	1.702E-04	5.841E-05	1.128E-04	1.702E-04	2.276E-04	2.850E-04	3.424E-04	4.000E-04	4.576E-04	5.152E-04	5.728E-04	6.304E-04	6.880E-04	7.456E-04	8.032E-04	8.608E-04	9.184E-04	9.760E-04	1.0336E-03	1.0912E-03	1.1488E-03	1.2064E-03	1.2640E-03	1.3216E-03	1.3792E-03	1.4368E-03	1.4944E-03	1.5520E-03	1.6096E-03	1.6672E-03	1.7248E-03	1.7824E-03	1.8400E-03	1.8976E-03	1.9552E-03	2.0128E-03	2.0704E-03	2.1280E-03	2.1856E-03	2.2432E-03	2.3008E-03	2.3584E-03	2.4160E-03	2.4736E-03	2.5312E-03	2.5888E-03	2.6464E-03	2.7040E-03	2.7616E-03	2.8192E-03	2.8768E-03	2.9344E-03	2.9920E-03	3.0496E-03	3.1072E-03	3.1648E-03	3.2224E-03	3.2800E-03	3.3376E-03	3.3952E-03	3.4528E-03	3.5104E-03	3.5680E-03	3.6256E-03	3.6832E-03	3.7408E-03	3.7984E-03	3.8560E-03	3.9136E-03	3.9712E-03	4.0288E-03	4.0864E-03	4.1440E-03	4.2016E-03	4.2592E-03	4.3168E-03	4.3744E-03	4.4320E-03	4.4896E-03	4.5472E-03	4.6048E-03	4.6624E-03	4.7200E-03	4.7776E-03	4.8352E-03	4.8928E-03	4.9504E-03	5.0080E-03	5.0656E-03	5.1232E-03	5.1808E-03	5.2384E-03	5.2960E-03	5.3536E-03	5.4112E-03	5.4688E-03	5.5264E-03	5.5840E-03	5.6416E-03	5.6992E-03	5.7568E-03	5.8144E-03	5.8720E-03	5.9296E-03	5.9872E-03	6.0448E-03	6.1024E-03	6.1600E-03	6.2176E-03	6.2752E-03	6.3328E-03	6.3904E-03	6.4480E-03	6.5056E-03	6.5632E-03	6.6208E-03	6.6784E-03	6.7360E-03	6.7936E-03	6.8512E-03	6.9088E-03	6.9664E-03	7.0240E-03	7.0816E-03	7.1392E-03	7.1968E-03	7.2544E-03	7.3120E-03	7.3696E-03	7.4272E-03	7.4848E-03	7.5424E-03	7.6000E-03	7.6576E-03	7.7152E-03	7.7728E-03	7.8304E-03	7.8880E-03	7.9456E-03	8.0032E-03	8.0608E-03	8.1184E-03	8.1760E-03	8.2336E-03	8.2912E-03	8.3488E-03	8.4064E-03	8.4640E-03	8.5216E-03	8.5792E-03	8.6368E-03	8.6944E-03	8.7520E-03	8.8096E-03	8.8672E-03	8.9248E-03	8.9824E-03	9.0400E-03	9.0976E-03	9.1552E-03	9.2128E-03	9.2704E-03	9.3280E-03	9.3856E-03	9.4432E-03	9.5008E-03	9.5584E-03	9.6160E-03	9.6736E-03	9.7312E-03	9.7888E-03	9.8464E-03	9.9040E-03	9.9616E-03	1.00192E-02	1.00768E-02	1.01344E-02	1.01920E-02	1.02496E-02	1.03072E-02	1.03648E-02	1.04224E-02	1.04800E-02	1.05376E-02	1.05952E-02	1.06528E-02	1.07104E-02	1.07680E-02	1.08256E-02	1.08832E-02	1.09408E-02	1.09984E-02	1.10560E-02	1.11136E-02	1.11712E-02	1.12288E-02	1.12864E-02	1.13440E-02	1.14016E-02	1.14592E-02	1.15168E-02	1.15744E-02	1.16320E-02	1.16896E-02	1.17472E-02	1.18048E-02	1.18624E-02	1.19200E-02	1.19776E-02	1.20352E-02	1.20928E-02	1.21504E-02	1.22080E-02	1.22656E-02	1.23232E-02	1.23808E-02	1.24384E-02	1.24960E-02	1.25536E-02	1.26112E-02	1.26688E-02	1.27264E-02	1.27840E-02	1.28416E-02	1.28992E-02	1.29568E-02	1.30144E-02	1.30720E-02	1.31296E-02	1.31872E-02	1.32448E-02	1.33024E-02	1.33600E-02	1.34176E-02	1.34752E-02	1.35328E-02	1.35904E-02	1.36480E-02	1.37056E-02	1.37632E-02	1.38208E-02	1.38784E-02	1.39360E-02	1.39936E-02	1.40512E-02	1.41088E-02	1.41664E-02	1.42240E-02	1.42816E-02	1.43392E-02	1.43968E-02	1.44544E-02	1.45120E-02	1.45696E-02	1.46272E-02	1.46848E-02	1.47424E-02	1.48000E-02	1.48576E-02	1.49152E-02	1.49728E-02	1.50304E-02	1.50880E-02	1.51456E-02	1.52032E-02	1.52608E-02	1.53184E-02	1.53760E-02	1.54336E-02	1.54912E-02	1.55488E-02	1.56064E-02	1.56640E-02	1.57216E-02	1.57792E-02	1.58368E-02	1.58944E-02	1.59520E-02	1.60096E-02	1.60672E-02	1.61248E-02	1.61824E-02	1.62400E-02	1.62976E-02	1.63552E-02	1.64128E-02	1.64704E-02	1.65280E-02	1.65856E-02	1.66432E-02	1.67008E-02	1.67584E-02	1.68160E-02	1.68736E-02	1.69312E-02	1.69888E-02	1.70464E-02	1.71040E-02	1.71616E-02	1.72192E-02	1.72768E-02	1.73344E-02	1.73920E-02	1.74496E-02	1.75072E-02	1.75648E-02	1.76224E-02	1.76800E-02	1.77376E-02	1.77952E-02	1.78528E-02	1.79104E-02	1.79680E-02	1.80256E-02	1.80832E-02	1.81408E-02	1.81984E-02	1.82560E-02	1.83136E-02	1.83712E-02	1.84288E-02	1.84864E-02	1.85440E-02	1.86016E-02	1.86592E-02	1.87168E-02	1.87744E-02	1.88320E-02	1.88896E-02	1.89472E-02	1.90048E-02	1.90624E-02	1.91200E-02	1.91776E-02	1.92352E-02	1.92928E-02	1.93504E-02	1.94080E-02	1.94656E-02	1.95232E-02	1.95808E-02	1.96384E-02	1.96960E-02	1.97536E-02	1.98112E-02	1.98688E-02	1.99264E-02	1.99840E-02	2.00416E-02	2.00992E-02	2.01568E-02	2.02144E-02	2.02720E-02	2.03296E-02	2.03872E-02	2.04448E-02	2.05024E-02	2.05600E-02	2.06176E-02	2.06752E-02	2.07328E-02	2.07904E-02	2.08480E-02	2.09056E-02	2.09632E-02	2.10208E-02	2.10784E-02	2.11360E-02	2.11936E-02	2.12512E-02	2.13088E-02	2.13664E-02	2.14240E-02	2.14816E-02	2.15392E-02	2.15968E-02	2.16544E-02	2.17120E-02	2.17696E-02	2.18272E-02	2.18848E-02	2.19424E-02	2.20000E-02	2.20576E-02	2.21152E-02	2.21728E-02	2.22304E-02	2.22880E-02	2.23456E-02	2.24032E-02	2.24608E-02	2.25184E-02	2.25760E-02	2.26336E-02	2.26912E-02	2.27488E-02	2.28064E-02	2.28640E-02	2.29216E-02	2.29792E-02	2.30368E-02	2.30944E-02	2.31520E-02	2.32096E-02	2.32672E-02	2.33248E-02	2.33824E-02	2.34400E-02	2.34976E-02	2.35552E-02	2.36128E-02	2.36704E-02	2.37280E-02	2.37856E-02	2.38432E-02	2.39008E-02	2.39584E-02	2.40160E-02	2.40736E-02	2.41312E-02	2.41888E-02	2.42464E-02	2.43040E-02	2.43616E-02	2.44192E-02	2.44768E-02	2.45344E-02	2.45920E-02	2.46496E-02	2.47072E-02	2.47648E-02	2.48224E-02	2.48800E-02	2.49376E-02	2.49952E-02	2.50528E-02	2.51104E-02	2.51680E-02	2.52256E-02	2.52832E-02	2.53408E-02	2.53984E-02	2.54560E-02	2.55136E-02	2.55712E-02	2.56288E-02	2.56864E-02	2.57440E-02	2.58016E-02	2.58592E-02	2.59168E-02	2.59744E-02	2.60320E-02	2.60896E-02	2.61472E-02	2.62048E-02	2.62624E-02	2.63200E-02	2.63776E-02	2.64352E-02	2.64928E-02	2.65504E-02	2.66080E-02	2.66656E-02	2.67232E-02	2.67808E-02	2.68384E-02	2.68960E-02	2.69536E-02	2.70112E-02	2.70688E-02	2.71264E-02	2.71840E-02	2.72416E-02	2.72992E-02	2.73568E-02	2.74144E-02	2.74720E-02	2.75296E-02	2.75872E-02	2.76448E-02	2.77024E-02	2.77600E-02	2.78176E-02	2.78752E-02	2.79328E-02	2.79904E-02	2.80480E-02	2.81056E-02	2.81632E-02	2.82208E-02	2.82784E-02	2.83360E-02	2.83936E-02	2.84512E-02	2.85088E-02	2.85664E-02	2.86240E-02	2.86816E-02	2.87392E-02	2.87968E-02	2.88544E-02	2.89120E-02	2.89696E-02	2.90272E-02	2.90848E-02	2.91424E-02	2.92000E-02	2.92576E-02	2.93152E-02	2.93728E-02	2.94304E-02	2.94880E-02	2.95456E-02	2.96032E-02	2.96608E-02	2.97184E-02	2.97760E-02	2.98336E-02	2.98912E-02	2.99488E-02	3.00064E-02	3.00640E-02	3.01216E-02	3.01792E-02	3.02368E-02	3.02944E-02	3.03520E-02	3.04096E-02	3.04672E-02	3.05248E-02	3.05824E-02	3.06400E-02	3.06976E-02	3.07552E-02	3.08128E-02	3.08704E-02	3.09280E-02	3.09856E-02	3.10432E-02	3.11008E-02	3.11584E-02	3.12160E-02	3.12736E-02	3.13312E-02	3.13888E-02	3.14464E-02	3.15040E-02	3.15616E-02	3.16192E-02	3.16768E-02	3.17344E-02	3.17920E-02	3.18496E-02	3.19072E-02	3.19648E-02	3.20224E-02	3.20800E-02	3.21376E-02	3.21952E-02	3.22528E-02	3.23104E-02	3.23680E-02	3.24256E-02	3.24832E-02	3.25408E-02	3.25984E-02	3.26560E-02	3.27136E-02	3.27712E-02	3.28288E-02	3.28864E-02	3.29440E-02	3.30016E-02	3.30592E-02	3.31168E-02	3.31744E-02	3.32320E-02	3.32896E-02	3.33472E-02	3.34048E-02	3.34624E-02	3.35200E-02	3.35776E-02	3.36352E-02	3.36928E-02	3.37504E-02	3.38080E-02	3.38656E-02	3.39232E-02	3.39808E-02	3.40384E-02	3.40960E-02	3.41536E-02	3.42112E-02	3.42688E-02	3.43264E-02	3.43840E-02	3.44416E-02	3.44992E-02	3.45568E-02	3.46144E-02	3.46720E-02	3.47296E-02	3.47872E-02	3.48448E-02	3.49024E-02	3.49600E-02	3.50176E-02	3.50752E-02	3.51328E-02	3.51904E-02	3.52480E-02	3.53056E-02	3.53632E-02	3.54208E-02	3.54784E-02	3.55360E-02	3.55936E-02	3.56512E-02	3.57088E-02	3.57664E-02	3.58240E-02	3.58816E-02	3.59392E-02	3.59968E-02	3.60544E-02	3.61120E-02	3.61696E-02	3.62272E-02	3.62848E-02	3.63424E-02	3.64000E-02	3.64576E-02	3.65152E-02	3.65728E-02	3.66304E-02	3.66880E-02	3.67456E-02	3.68032E-02	3.68608E-02	3.69184E-02	3.69760E-02	3.70336E-02	3.70912E-02	3.71488E-02	3.72064E-02	3.72640E-02	3.73216E-02	3.73792E-02	3.74368E-02	3.74944E-02	3.75520E-02	3.76096E-02	3.76672E-02	3.77248E-02	3.77824E-02	3.78400E-02	3.78976E-02	3.79552E-02	3.80128E-02	3.80704E-02	3.81280E-02	3.81856E-02	3.82432E-02	3.83008E-02	3.83584E-02	3.84160E-02	3.84736E-02	3.85312E-02	3.85888E-02	3.86464E-02	3.87040E-02	3.87616E-02	3.88192E-02	3.88768E-02	3.89344E-02	3.89920E-02	3.90496E-02	3.91072E-02	3.91648E-02	3.92224E-02	3.92800E-02	3.93376E-02	3.93952E-02	3.94528E-02	3.95104E-02	3.95680E-02	3.96256E-02	3.96832E-02	3.97408E-02	3.97984E-02	3.98560E-02	3.99136E-02	3.99712E-02	4.00288E-02	4.00864E-02	4.01440E-02	4.02016E-02	4.02592E-02

REVIEW OF CHLOROTHALONIL FOLIAR DISODGEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FOR (ug/cm²) LEVELS

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADE CALCULATIONS										RISK ANALYSIS										TOXICOLOGICAL PARAMETERS		
				(mg/day)										DERMAL ABSORPTION FACTOR #1										DERMAL ABSORPTION FACTOR #2		
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	CHLOROTHALONIL Q1* (mg/kg/day)-1:	AVERAGE WEIGHT:	DERMAL ABS. FACT. #1 (%):
TOTAL INSIDE	0	124.478	(ug/lb picked)	5.3045	10.7690	16.1535	21.5390	4.231E-05	8.461E-05	1.269E-04	1.692E-04	8.461E-05	1.692E-04	2.538E-05	3.385E-05	8.461E-05	1.692E-04	2.538E-05	3.385E-05	8.461E-05	1.692E-04	2.538E-05	3.385E-05	0.011	70	5
	1	121.300	(ug/lb picked)	5.2470	10.4940	15.7410	20.9880	4.125E-05	8.249E-05	1.237E-04	1.648E-04	4.125E-05	8.249E-05	2.474E-05	3.280E-05	4.125E-05	8.249E-05	2.474E-05	3.280E-05	4.125E-05	8.249E-05	2.474E-05	3.280E-05			
	2	116.121	(ug/lb picked)	5.1065	10.2180	15.3285	20.4380	4.028E-05	8.056E-05	1.204E-04	1.606E-04	4.028E-05	8.056E-05	2.409E-05	3.125E-05	4.028E-05	8.056E-05	2.409E-05	3.125E-05	4.028E-05	8.056E-05	2.409E-05	3.125E-05			
	3	114.943	(ug/lb picked)	4.9720	9.9440	14.9160	19.8880	3.907E-05	7.813E-05	1.172E-04	1.563E-04	3.907E-05	7.813E-05	2.344E-05	3.125E-05	3.907E-05	7.813E-05	2.344E-05	3.125E-05	4.9720	9.9440	14.9160	19.8880			
	4	111.764	(ug/lb picked)	4.8245	9.6490	14.4735	19.3380	3.797E-05	7.597E-05	1.140E-04	1.519E-04	3.797E-05	7.597E-05	2.271E-05	3.038E-05	3.797E-05	7.597E-05	2.271E-05	3.038E-05	4.8245	9.6490	14.4735	19.3380			
	5	106.585	(ug/lb picked)	4.6970	9.3940	14.0610	18.7680	3.690E-05	7.381E-05	1.107E-04	1.476E-04	3.690E-05	7.381E-05	2.214E-05	2.952E-05	3.690E-05	7.381E-05	2.214E-05	2.952E-05	4.6970	9.3940	14.0610	18.7680			
	6	105.406	(ug/lb picked)	4.5595	9.1190	13.6785	18.2379	3.582E-05	7.165E-05	1.075E-04	1.433E-04	3.582E-05	7.165E-05	2.146E-05	2.886E-05	3.582E-05	7.165E-05	2.146E-05	2.886E-05	4.5595	9.1190	13.6785	18.2379			
	7	102.227	(ug/lb picked)	4.4220	8.8440	13.2959	17.6878	3.474E-05	6.948E-05	1.042E-04	1.390E-04	3.474E-05	6.948E-05	2.089E-05	2.806E-05	3.474E-05	6.948E-05	2.089E-05	2.806E-05	4.4220	8.8440	13.2959	17.6878			
	8	98.046	(ug/lb picked)	4.2945	8.5890	12.8534	17.1378	3.366E-05	6.733E-05	1.010E-04	1.347E-04	3.366E-05	6.733E-05	2.030E-05	2.760E-05	3.366E-05	6.733E-05	2.030E-05	2.760E-05	4.2945	8.5890	12.8534	17.1378			
	9	95.870	(ug/lb picked)	4.1470	8.2839	12.4409	16.5879	3.258E-05	6.517E-05	9.775E-05	1.300E-04	3.258E-05	6.517E-05	1.985E-05	2.697E-05	3.258E-05	6.517E-05	1.985E-05	2.697E-05	4.1470	8.2839	12.4409	16.5879			
	10	92.691	(ug/lb picked)	4.0095	8.0189	12.0284	16.0378	3.150E-05	6.301E-05	9.451E-05	1.260E-04	3.150E-05	6.301E-05	1.930E-05	2.644E-05	3.150E-05	6.301E-05	1.930E-05	2.644E-05	4.0095	8.0189	12.0284	16.0378			
	11	89.512	(ug/lb picked)	3.8720	7.7439	11.6159	15.4878	3.042E-05	6.085E-05	9.127E-05	1.217E-04	3.042E-05	6.085E-05	1.890E-05	2.594E-05	3.042E-05	6.085E-05	1.890E-05	2.594E-05	3.8720	7.7439	11.6159	15.4878			
	12	86.333	(ug/lb picked)	3.7345	7.4689	11.2034	14.9378	2.934E-05	5.868E-05	8.803E-05	1.174E-04	2.934E-05	5.868E-05	1.869E-05	2.547E-05	3.7345	7.4689	1.869E-05	2.547E-05	3.7345	7.4689	11.2034	14.9378			
	13	83.154	(ug/lb picked)	3.5970	7.1939	10.7908	14.3878	2.826E-05	5.652E-05	8.479E-05	1.130E-04	2.826E-05	5.652E-05	1.848E-05	2.501E-05	3.5970	7.1939	1.848E-05	2.501E-05	3.5970	7.1939	10.7908	14.3878			
	14	79.976	(ug/lb picked)	3.4595	6.9189	10.3764	13.8378	2.718E-05	5.436E-05	8.154E-05	1.087E-04	2.718E-05	5.436E-05	1.827E-05	2.454E-05	3.4595	6.9189	1.827E-05	2.454E-05	3.4595	6.9189	10.3764	13.8378			
	15	76.797	(ug/lb picked)	3.3220	6.6439	9.9630	13.2878	2.610E-05	5.220E-05	7.830E-05	1.044E-04	2.610E-05	5.220E-05	1.806E-05	2.407E-05	3.3220	6.6439	1.806E-05	2.407E-05	3.3220	6.6439	9.9630	13.2878			
	16	73.618	(ug/lb picked)	3.1844	6.3689	9.5533	12.7378	2.502E-05	5.004E-05	7.505E-05	1.001E-04	2.502E-05	5.004E-05	1.785E-05	2.360E-05	3.1844	6.3689	1.785E-05	2.360E-05	3.1844	6.3689	9.5533	12.7378			
	17	70.439	(ug/lb picked)	3.0469	6.0939	9.1408	12.1878	2.394E-05	4.786E-05	7.182E-05	9.576E-05	2.394E-05	4.786E-05	1.764E-05	2.313E-05	3.0469	6.0939	1.764E-05	2.313E-05	3.0469	6.0939	9.1408	12.1878			
	18	67.260	(ug/lb picked)	2.9094	5.8189	8.7283	11.6378	2.286E-05	4.572E-05	6.858E-05	9.144E-05	2.286E-05	4.572E-05	1.743E-05	2.269E-05	2.9094	5.8189	1.743E-05	2.269E-05	2.9094	5.8189	9.1408	12.1878			
	19	64.082	(ug/lb picked)	2.7719	5.5439	8.3158	11.0878	2.178E-05	4.359E-05	6.534E-05	8.712E-05	2.178E-05	4.359E-05	1.722E-05	2.222E-05	2.7719	5.5439	1.722E-05	2.222E-05	2.7719	5.5439	9.1408	12.1878			
	20	60.903	(ug/lb picked)	2.6344	5.2689	7.9033	10.5377	2.070E-05	4.140E-05	6.210E-05	8.260E-05	2.070E-05	4.140E-05	1.692E-05	2.175E-05	2.6344	5.2689	1.692E-05	2.175E-05	2.6344	5.2689	9.1408	12.1878			
	21	57.724	(ug/lb picked)	2.4969	4.9939	7.4908	9.9877	1.962E-05	3.924E-05	5.886E-05	7.848E-05	1.962E-05	3.924E-05	1.671E-05	2.128E-05	2.4969	4.9939	1.671E-05	2.128E-05	2.4969	4.9939	9.1408	12.1878			
	22	54.545	(ug/lb picked)	2.3594	4.7189	7.0783	9.4377	1.854E-05	3.708E-05	5.562E-05	7.419E-05	1.854E-05	3.708E-05	1.650E-05	2.081E-05	2.3594	4.7189	1.650E-05	2.081E-05	2.3594	4.7189	9.1408	12.1878			
	23	51.366	(ug/lb picked)	2.2219	4.4439	6.6658	8.8877	1.746E-05	3.492E-05	5.237E-05	6.943E-05	1.746E-05	3.492E-05	1.629E-05	2.042E-05	2.2219	4.4439	1.629E-05	2.042E-05	2.2219	4.4439	9.1408	12.1878			
	24	48.188	(ug/lb picked)	2.0844	4.1689	6.2533	8.3377	1.638E-05	3.276E-05	4.913E-05	6.511E-05	1.638E-05	3.276E-05	1.607E-05	2.003E-05	2.0844	4.1689	1.607E-05	2.003E-05	2.0844	4.1689	9.1408	12.1878			
	25	45.009	(ug/lb picked)	1.9469	3.8939	5.8408	7.7877	1.530E-05	3.059E-05	4.586E-05	6.081E-05	1.530E-05	3.059E-05	1.586E-05	1.954E-05	1.9469	3.8939	1.586E-05	1.954E-05	1.9469	3.8939	9.1408	12.1878			
	26	41.830	(ug/lb picked)	1.8094	3.6189	5.4283	7.2377	1.422E-05	2.843E-05	4.260E-05	5.657E-05	1.422E-05	2.843E-05	1.563E-05	1.907E-05	1.8094	3.6189	1.563E-05	1.907E-05	1.8094	3.6189	9.1408	12.1878			
	27	38.651	(ug/lb picked)	1.6719	3.3439	5.0157	6.6878	1.314E-05	2.627E-05	3.941E-05	5.255E-05	1.314E-05	2.627E-05	1.541E-05	1.858E-05	1.6719	3.3439	1.541E-05	1.858E-05	1.6719	3.3439	9.1408	12.1878			
	28	35.472	(ug/lb picked)	1.5344	3.0689	4.6032	6.1378	1.206E-05	2.411E-05	3.617E-05	4.822E-05	1.206E-05	2.411E-05	1.519E-05	1.811E-05	1.5344	3.0689	1.519E-05	1.811E-05	1.5344	3.0689	9.1408	12.1878			
	29	32.294	(ug/lb picked)	1.3969	2.7939	4.1907	5.5878	1.098E-05	2.195E-05	3.293E-05	4.390E-05	1.098E-05	2.195E-05	1.497E-05	1.796E-05	1.3969	2.7939	1.497E-05	1.796E-05	1.3969	2.7939	9.1408	12.1878			
	30	29.115	(ug/lb picked)	1.2594	2.5189	3.7782	5.0378	9.885E-06	1.979E-05	2.980E-05	3.958E-05	9.885E-06	1.979E-05	1.476E-05	1.771E-05	1.2594	2.5189	1.476E-05	1.771E-05	1.2594	2.5189	9.1408	12.1878			
	31	25.936	(ug/lb picked)	1.1219	2.2439	3.3657	4.4878	8.815E-06	1.763E-05	2.644E-05	3.538E-05	8.815E-06	1.763E-05	1.455E-05	1.752E-05	1.1219	2.2439	1.455E-05	1.752E-05	1.1219	2.2439	9.1408	12.1878			
	32	22.757	(ug/lb picked)	0.9844	1.9689	2.9532	3.9378	7.735E-06	1.547E-05	2.320E-05	3.094E-05	7.735E-06	1.547E-05	1.434E-05	1.731E-05	0.9844	1.9689	1.434E-05	1.731E-05	0.9844	1.9689	9.1408	12.1878			
	33	19.578	(ug/lb picked)	0.8469	1.6939	2.5407	3.3878	6.664E-06	1.331E-05	1.990E-05	2.692E-05	6.664E-06	1.331E-05	1.413E-05	1.710E-05	0.8469	1.6939	1.413E-05	1.710E-05	0.8469	1.6939	9.1408	12.1878			
	34	16.400	(ug/lb picked)	0.7094	1.4189	2.1282	2.8378	5.574E-06	1.119E-05	1.672E-05	2.220E-05	5.574E-06	1.119E-05	1.392E-05	1.689E-05	0.7094	1.4189	1.392E-05	1.689E-05	0.7094	1.4189	9.1408	12.1878			
	35	13.221	(ug/lb picked)	0.5719	1.1439	1.7158	2.2878	4.485E-06	8.967E-06	1.348E-05	1.797E-05	4.485E-06	8.967E-06	1.370E-05	1.666E-05	0.5719	1.1439	1.370E-05	1.666E-05	0.5719	1.1439	9.1408	12.1878			

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS or EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (207 +/- 52 lb/hour).



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Chemical: Chlorothalonil

PC Code:
081901

HED File Code: 14000 Risk Reviews

Memo Date: 10/5/1993

File ID:

Accession #: 412-06-0009

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