

Web Table 1. List and Prevalence of 48 Chemicals Examined for Risk of Total Prostate Cancer

Pesticide	Type	Prevalence of use (% Ever)		Quartile Medians-Total Prostate Cancer ^b			
		Prostate Cases n (%)	Rest of Cohort ^a n (%)	Q1	Q2	Q3	Q4
Atrazine	Herbicide (TR)	1342 (68.4)	36,752 (70.1)	12.0	48.8	108.5	336.0
Dicamba	Herbicide	838 (42.7)	25,516 (48.7)	8.8	24.5	58.8	224.8
Cyanazine	Herbicide (TR)	675 (34.4)	19,542 (37.3)	8.8	24.5	56.0	224.8
Chlorimuron-ethyl	Herbicide	303 (15.4)	8,238 (15.7)	8.8	30.0		
Metolachlor	Herbicide	768 (39.1)	23,757 (45.3)	8.8	24.5	56.0	224.8
EPTC	Herbicide	300 (15.3)	9,552 (18.2)	8.8	56.0		
Alachlor	Herbicide	917 (46.7)	24,548 (46.8)	8.8	24.5	86.0	236.0
Metribuzin	Herbicide	372 (19.0)	8,750 (16.7)	8.8	20.0	24.5	103.3
Paraquat	Herbicide	178 (9.1)	4,453 (8.5)	2.5	8.8	24.5	108.5
Petroleum Oil	Herbicide	206 (10.5)	4,838 (9.2)	8.8	24.5	56.0	236.0
Pendimethalin	Herbicide	408 (20.1)	12,323 (23.5)	7.0	15.0	24.5	105.0
Imazethapyr	Herbicide	642 (32.7)	20,810 (39.7)	8.8	24.5	56.0	
Glyphosate	Herbicide	1464 (74.6)	42,420 (80.9)	8.8	24.0	56.0	224.8
2,4,5 T P	Herbicide	51 (2.6)	1,061 (2.0)	8.8	24.5	108.5	
Butylate	Herbicide	241 (12.3)	5,764 (11.0)	8.8	24.5	56.0	116.0
Trifluralin	Herbicide	893 (45.5)	25,245 (48.1)	14.5	50.8	108.5	236.0
2,4-D	Herbicide	1469 (74.9)	39,677 (75.7)	10.0	50.8	118.5	396.0
2,4,5 T	Herbicide	245 (12.5)	3,860 (7.4)	8.8	50.8		
Permethrin (crop)	Insecticide	196 (10.0)	7,587 (14.5)	8.8	55.7		
Permethrin (animal)	Insecticide	177 (9.0)	6,540 (12.5)	8.8	56.0		
Terbufos	Insecticide (OP)	639 (32.6)	17,838 (34.0)	12.0	48.8	108.5	336.0
Fonofos	Insecticide (OP)	384 (19.6)	9,681 (18.5)	8.8	24.5	50.8	116.0
Lindane	Insecticide (OC)	157 (8.0)	3,215 (6.1)	8.8	20.0	24.5	108.0
Carbofuran	Insecticide	534 (27.2)	12,292 (23.4)	8.8	24.5	108.5	
Chlorpyrifos	Insecticide (OP)	668 (34.1)	20,233 (38.6)	8.8	24.0	50.8	116.0
Malathion	Insecticide (OP)	746 (38.1)	17,212 (32.8)	8.8	20.0	38.8	116.5
Parathion	Insecticide (OP)	99 (5.1)	1,592 (3.0)	8.8	24.5	116.0	
Carbaryl	Insecticide	558 (28.4)	11,601 (22.1)	8.8	20.0	45.0	175.0
Diazinon	Insecticide (OP)	258 (13.2)	5,626 (10.7)	8.8	38.8		
Aldicarb	Insecticide	92 (4.7)	2,315 (4.4)	8.0	24.5	103.3	
Phorate	Insecticide (OP)	304 (15.5)	6,418 (12.2)	8.8	24.5	56.0	116.0
Aldrin	Insecticide (OC)	257 (13.1)	3,315 (6.3)	8.8	24.5	50.8	103.3
Chlordane	Insecticide (OC)	233 (11.9)	3,917 (7.5)	8.8	24.5		
Dieldrin	Insecticide (OC)	56 (2.9)	725 (1.4)	8.8	24.5		
DDT	Insecticide (OC)	384 (19.6)	4,332 (8.3)	8.8	24.5	116.0	
Heptachlor	Insecticide (OC)	178 (9.1)	2,402 (4.6)	8.8	24.5	56.0	
Toxaphene	Insecticide (OC)	153 (7.8)	2,319 (4.4)	8.8	24.5	108.5	
Coumaphos	Insecticide (OP)	139 (7.1)	3,614 (6.9)	8.8	20.0	38.8	176.5
DDVP	Insecticide (OP)	172 (8.8)	4,563 (8.7)	8.8	24.5	103.3	752.3
Methyl Bromide	Fumigant	281 (14.3)	7,374 (14.1)	3.5	15.5	35.0	122.5
Aluminum Phosphide	Fumigant	30 (1.5)	1,271 (2.4)	3.5	24.5		
Mix 80/20	Fumigant	72 (3.4)	877 (1.7)	3.5	12.3	54.3	
Ethylene Dibromide	Fumigant	37 (1.9)	929 (1.8)	3.5	15.5	87.5	
Benomyl	Fungicide	82 (4.2)	1,790 (3.4)	3.5	24.5	108.5	
Chlorothalonil	Fungicide	142 (7.2)	4,395 (8.4)	7.9	28.0	64.0	200.0
Captan	Fungicide	170 (8.7)	4,879 (9.3)	0.3	7.8	64.0	
Maneb/Mancozeb	Fungicide	79 (4.0)	1,720 (3.3)	7.0	30.0	224.8	
Metalaxyl	Fungicide	197 (10.0)	4,884 (9.3)	1.0	12.3	25.0	59.3

Abbreviations: Triazine (TR); Organophosphate (OP); Organochlorine (OC); quartile 1 (Q1); quartile 2 (Q2); quartile 3 (Q3); quartile 4 (Q4).

^a Male applicators with no previous history of cancer and complete follow-up.

^b Tertile cutpoints or median cutpoints provided for some chemicals.

Web Table 2. Cumulative Lifetime Pesticide Exposure and Risk of Total and Aggressive Prostate Cancer in the AHS, 2007

	Intensity Weighted Days		Intensity Weighted Days	
	Total PCA		Aggressive PCA ^a	
	Cases ^b	RR ^c (95% CI)	Cases ^b	RR ^c (95% CI)
<u>Dicamba</u>				
Nonexposed	837	Ref	380	Ref
Q1	212	0.97 (0.82, 1.14)	102	0.85 (0.67, 1.07)
Q2	208	0.89 (0.75, 1.05)	99	0.92 (0.72, 1.16)
Q3	209	0.90 (0.76, 1.06)	100	0.82 (0.64, 1.04)
Q4	209	1.04 (0.88, 1.22)	100	0.96 (0.75, 1.22)
p-trend		0.50		0.98
<u>Chlorimuron</u>				
Nonexposed	718	Ref	348	Ref
Q1	76	1.01 (0.79, 1.29)	32	0.90 (0.62, 1.31)
Q2	76	1.09 (0.86, 1.39)	31	1.20 (0.83, 1.74)
Q3	76	1.02 (0.80, 1.32)	31	0.80 (0.53, 1.21)
Q4	75	0.89 (0.70, 1.13)	31	0.74 (0.51, 1.08)
p-trend		0.36		0.10
<u>Metolachlor</u>				
Nonexposed	910	Ref	427	Ref
Q1	192	1.04 (0.88, 1.23)	93	1.03 (0.81, 1.31)
Q2	192	1.05 (0.89, 1.23)	89	1.00 (0.79, 1.26)
Q3	192	0.98 (0.83, 1.16)	91	0.95 (0.74, 1.20)
Q4	192	0.91 (0.78, 1.07)	91	0.98 (0.78, 1.24)
p-trend		0.21		0.81
<u>EPTC</u>				
Nonexposed	1352	Ref	624	Ref
Q1	75	1.00 (0.79, 1.26)	39	1.01 (0.72, 1.41)
Q2	76	1.25 (0.99, 1.58)	37	1.29 (0.93, 1.81)
Q3	74	0.93 (0.73, 1.17)	38	0.97 (0.70, 1.35)
Q4	75	0.93 (0.73, 1.17)	38	1.01 (0.73, 1.41)
p-trend		0.48		0.98
<u>Alachlor</u>				
Nonexposed	745	Ref	362	Ref
Q1	230	0.96 (0.83, 1.12)	104	0.89 (0.71, 1.12)
Q2	231	1.03 (0.89, 1.20)	104	0.95 (0.76, 1.18)
Q3	227	0.99 (0.85, 1.15)	104	0.96 (0.77, 1.20)
Q4	229	0.99 (0.86, 1.15)	103	0.90 (0.73, 1.13)
p-trend		0.96		0.49
<u>Metribuzin</u>				
Nonexposed	633	Ref	295	Ref
Q1	93	0.97 (0.77, 1.21)	45	0.86 (0.62, 1.19)
Q2	93	1.17 (0.93, 1.47)	42	1.03 (0.73, 1.45)
Q3	93	0.94 (0.75, 1.17)	44	0.99 (0.71, 1.38)
Q4	93	1.08 (0.87, 1.35)	43	1.11 (0.80, 1.54)
p-trend		0.57		0.46
<u>Paraquat</u>				
Nonexposed	844	Ref	391	Ref
Q1	45	0.96 (0.71, 1.31)	21	0.92 (0.57, 1.49)
Q2	44	0.97 (0.71, 1.33)	20	0.93 (0.58, 1.49)
Q3	45	0.93 (0.68, 1.27)	21	1.32 (0.83, 2.08)
Q4	44	1.03 (0.75, 1.42)	20	1.30 (0.80, 2.10)
p-trend		0.88		0.22
<u>Petroleum Oil</u>				

Nonexposed	796	Ref	364	Ref
Q1	52	0.96 (0.71, 1.28)	27	0.87 (0.57, 1.31)
Q2	52	1.17 (0.88, 1.55)	26	1.34 (0.89, 2.03)
Q3	51	1.05 (0.79, 1.39)	26	1.30 (0.87, 1.96)
Q4	51	1.14 (0.86, 1.52)	26	1.30 (0.87, 1.93)
p-trend		0.34		0.14
<u>Pendimethalin</u>				
Nonexposed	649	Ref	305	Ref
Q1	102	0.84 (0.68, 1.05)	50	0.80 (0.59, 1.10)
Q2	102	0.92 (0.74, 1.15)	46	1.02 (0.74, 1.42)
Q3	102	0.90 (0.72, 1.13)	48	0.97 (0.70, 1.34)
Q4	102	1.16 (0.93, 1.43)	48	1.32 (0.97, 1.80)
p-trend		0.15		0.06
<u>Imazethapyr</u>				
Nonexposed	1019	Ref	470	Ref
Q1	161	1.00 (0.84, 1.20)	78	0.95 (0.73, 1.23)
Q2	160	1.06 (0.88, 1.26)	77	0.89 (0.69, 1.16)
Q3	161	1.11 (0.92, 1.32)	77	0.97 (0.75, 1.25)
Q4	160	1.00 (0.84, 1.20)	77	1.08 (0.84, 1.38)
p-trend		0.86		0.51
<u>Glyphosate</u>				
Nonexposed	385	Ref	188	Ref
Q1	366	0.91 (0.79, 1.06)	170	0.93 (0.74, 1.16)
Q2	366	0.96 (0.83, 1.12)	169	0.91 (0.73, 1.13)
Q3	366	1.01 (0.87, 1.17)	170	1.01 (0.82, 1.25)
Q4	366	0.99 (0.86, 1.15)	169	0.94 (0.75, 1.18)
<u>2,4,5-TP</u>				
Nonexposed	939	Ref	434	Ref
Q1	17	0.73 (0.44, 1.21)	8	0.93 (0.44, 1.95)
Q2	18	1.14 (0.72, 1.79)	8	1.49 (0.74, 3.01)
Q3	16	0.83 (0.52, 1.35)	8	1.04 (0.51, 2.09)
Q4			7	1.31 (0.62, 2.77)
p-trend		0.50		0.46
<u>Butylate</u>				
Nonexposed	756	Ref	348	Ref
Q1	62	0.74 (0.57, 0.96)	30	0.71 (0.48, 1.05)
Q2	61	0.90 (0.69, 1.17)	30	1.03 (0.71, 1.51)
Q3	58	1.24 (0.95, 1.63)	30	1.38 (0.94, 2.02)
Q4	60	1.20 (0.92, 1.56)	29	1.28 (0.87, 1.87)
p-trend		0.08		0.08
<u>Trifluralin</u>				
Nonexposed	784	Ref	357	Ref
Q1	224	0.94 (0.81, 1.09)	109	0.95 (0.76, 1.19)
Q2	223	1.05 (0.89, 1.22)	107	1.04 (0.83, 1.30)
Q3	223	0.98 (0.84, 1.14)	108	1.05 (0.84, 1.31)
Q4	223	0.97 (0.83, 1.13)	108	0.99 (0.79, 1.24)
p-trend		0.78		0.96
<u>2,4-D</u>				
Nonexposed	392	Ref	186	Ref
Q1	369	0.99 (0.85, 1.15)	173	0.95 (0.76, 1.18)
Q2	366	0.97 (0.83, 1.14)	173	0.85 (0.67, 1.07)
Q3	367	1.01 (0.87, 1.18)	173	0.88 (0.71, 1.10)
Q4	367	0.95 (0.82, 1.11)	172	0.96 (0.76, 1.20)
p-trend		0.52		0.79

<u>2,4,5-T</u>				
Nonexposed	744	Ref	343	Ref
Q1	62	1.32 (1.02, 1.71)	31	1.15 (0.78, 1.70)
Q2	62	1.09 (0.84, 1.42)	31	1.20 (0.81, 1.77)
Q3	60	0.96 (0.73, 1.25)	29	1.00 (0.68, 1.46)
Q4	61	0.82 (0.63, 1.06)	30	0.87 (0.59, 1.26)
p-trend		0.10		0.42
<u>Permethrin crop</u>				
Nonexposed	1468	Ref	693	Ref
Q1	49	0.93 (0.69, 1.23)	22	0.95 (0.60, 1.49)
Q2	49	1.07 (0.80, 1.43)	22	1.07 (0.69, 1.66)
Q3	49	0.86 (0.64, 1.16)	22	0.65 (0.41, 1.03)
Q4	49	1.05 (0.79, 1.40)	21	1.33 (0.86, 2.05)
p-trend		0.85		0.38
<u>Permethrin animal</u>				
Nonexposed	1529	Ref	709	Ref
Q1	45	0.98 (0.69, 1.37)	24	1.07 (0.67, 1.70)
Q2	44	1.16 (0.83, 1.63)	23	1.11 (0.71, 1.74)
Q3	44	1.11 (0.81, 1.51)	24	1.09 (0.72, 1.64)
Q4	44	0.84 (0.62, 1.13)	23	1.11 (0.73, 1.68)
p-trend		0.32		0.58
<u>Carbofuran</u>				
Nonexposed	1128	Ref	508	Ref
Q1	140	0.97 (0.81, 1.16)	69	1.11 (0.85, 1.44)
Q2	127	1.23 (1.02, 1.47)	66	1.11 (0.87, 1.43)
Q3	134	1.13 (0.94, 1.36)	64	1.13 (0.86, 1.47)
Q4	133	0.88 (0.74, 1.05)	66	1.22 (0.95, 1.58)
p-trend		0.24		0.12
<u>Carbaryl</u>				
Nonexposed	483	Ref	237	Ref
Q1	140	1.04 (0.86, 1.26)	67	1.05 (0.78, 1.42)
Q2	139	1.13 (0.92, 1.38)	60	1.03 (0.76, 1.40)
Q3	140	1.25 (1.02, 1.53)	64	1.19 (0.88, 1.60)
Q4	139	0.91 (0.73, 1.13)	63	0.99 (0.71, 1.39)
p-trend		0.18		0.85
<u>Aldicarb</u>				
Nonexposed	913	Ref	436	Ref
Q1	23	0.95 (0.62, 1.44)	10	0.87 (0.39, 1.93)
Q2	23	1.73 (1.13, 2.65)	10	2.99 (1.52, 5.87)
Q3	23	0.98 (0.63, 1.53)	10	1.06 (0.50, 2.27)
Q4	23	1.00 (0.64, 1.56)	9	0.72 (0.33, 1.57)
p-trend		0.97		0.47
<u>Methyl bromide</u>				
Nonexposed	1570	Ref	750	Ref
Q1	72	0.94 (0.73, 1.20)	30	1.17 (0.80, 1.71)
Q2	69	0.90 (0.70, 1.16)	30	0.79 (0.53, 1.18)
Q3	70	0.94 (0.73, 1.21)	30	1.10 (0.74, 1.63)
Q4	70	0.94 (0.73, 1.21)	29	0.93 (0.63, 1.38)
p-trend		0.66		0.78
<u>Aluminum Phosphide</u>				
Nonexposed	959	Ref	445	Ref
T1	10	1.07 (0.57, 1.99)	10	1.58 (0.84, 2.96)
T2	11	0.64 (0.35, 1.17)	8	0.78 (0.39, 1.57)
T3	9	0.85 (0.44, 1.65)		

p-trend		0.49		0.53
<u>Mix 80/20</u>				
Nonexposed	912	Ref	425	Ref
Q1	25	1.73 (1.16, 2.58)	10	1.71 (0.88, 3.32)
Q2	24	1.15 (0.76, 1.73)	9	1.54 (0.79, 2.99)
Q3	23	1.05 (0.69, 1.59)	9	0.84 (0.42, 1.69)
Q4			9	1.44 (0.74, 2.79)
p-trend		0.79		0.33
<u>Ethylene Dibromide</u>				
Nonexposed	953	Ref	447	Ref
T1	13	1.16 (0.67, 2.01)	7	0.89 (0.39, 2.00)
T2	13	1.18 (0.68, 2.05)	7	0.56 (0.26, 1.20)
T3	11	0.44 (0.24, 0.81)		
p-trend		0.009		0.13
<u>Benomyl</u>				
Nonexposed	904	Ref	424	Ref
Q1	21	1.06 (0.69, 1.64)	10	1.33 (0.71, 2.50)
Q2	20	1.00 (0.64, 1.57)	9	0.93 (0.47, 1.81)
Q3	21	1.36 (0.88, 2.12)	10	1.20 (0.61, 2.35)
Q4	20	0.71 (0.45, 1.11)	9	1.18 (0.62, 2.24)
p-trend		0.19		0.59
<u>Chlorothalonil</u>				
Nonexposed	1720	Ref	797	Ref
Q1	37	0.87 (0.61, 1.24)	18	1.09 (0.63, 1.89)
Q2	34	1.25 (0.88, 1.76)	17	1.82 (1.09, 3.03)
Q3	36	0.86 (0.62, 1.21)	17	1.00 (0.61, 1.65)
Q4	35	0.88 (0.62, 1.23)	17	1.09 (0.67, 1.79)
p-trend		0.39		0.72
<u>Captan</u>				
Nonexposed	1508	Ref	692	Ref
Q1	44	1.07 (0.78, 1.45)	23	0.86 (0.57, 1.32)
Q2	41	1.05 (0.77, 1.44)	23	1.90 (1.21, 2.98)
Q3	43	1.10 (0.81, 1.49)	23	1.39 (0.91, 2.12)
Q4	42	0.96 (0.70, 1.33)	23	1.35 (0.87, 2.08)
p-trend		0.86		0.14
<u>Maneb/Mancozeb</u>				
Nonexposed	907	Ref	425	Ref
Q1	20	0.86 (0.54, 1.36)	11	1.14 (0.62, 2.10)
Q2	20	0.89 (0.55, 1.42)	8	1.10 (0.54, 2.23)
Q3	20	0.84 (0.54, 1.31)	9	1.59 (0.81, 3.14)
Q4	19	0.83 (0.52, 1.32)	9	0.67 (0.34, 1.31)
p-trend		0.41		0.29
<u>Metalaxyl</u>				
Nonexposed	791	Ref	379	Ref
Q1	50	0.96 (0.72, 1.28)	23	1.04 (0.68, 1.58)
Q2	49	1.01 (0.74, 1.37)	22	1.04 (0.65, 1.66)
Q3	49	1.11 (0.82, 1.51)	22	1.19 (0.75, 1.88)
Q4	49	1.03 (0.76, 1.40)	22	1.13 (0.70, 1.82)
p-trend		0.78		0.59

Abbreviations: Agricultural Health Study (AHS); Prostate Cancer (PCA); quartile 1 (Q1); quartile 2 (Q2); quartile 3 (Q3); quartile 4 (Q4).

^aDistant Stage OR Poorly differentiated (after 1/1/2003 Gleason 7-10) OR Gleason \geq 7 OR Fatal (underlying cause-prostate cancer)

^bNumbers do not sum to total due to missing data.

^cAdjusted for age, state, race, family history of prostate cancer, smoking, fruit servings, and leisure time physical activity in the winter

Web Table 3. Cumulative Lifetime Pesticide Exposure and Risk of Total Prostate Cancer by Family History of Prostate Cancer in the Agricultural Health Study

FAMILY HISTORY	Intensity Weighted Days NO		Intensity Weighted Days YES		p-interaction
	Cases ^a	RR ^b (95% CI)	Cases ^a	RR ^b (95% CI)	
<u>Dicamba</u>					
Nonexposed	638	Ref	122	Ref	
Q1	163	0.97 (0.81, 1.17)	42	1.17 (0.80, 1.71)	
Q2	163	0.93 (0.76, 1.13)	37	0.90 (0.60, 1.33)	
Q3	154	0.88 (0.73, 1.07)	44	1.02 (0.70, 1.49)	
Q4	160	1.05 (0.87, 1.27)	42	1.20 (0.82, 1.75)	
p-trend		0.55		0.37	0.22
<u>Chlorimuron</u>					
Nonexposed	530	Ref	114	Ref	
Q1	58	0.99 (0.75, 1.32)	17	1.29 (0.77, 2.15)	
Q2	53	0.98 (0.74, 1.30)	18	1.56 (0.92, 2.62)	
Q3	56	1.02 (0.76, 1.37)	9	0.65 (0.32, 1.32)	
Q4	54	0.90 (0.68, 1.20)	11	0.79 (0.43, 1.48)	
p-trend		0.51		0.32	0.11
<u>Metolachlor</u>					
Nonexposed	716	Ref	134	Ref	
Q1	137	0.94 (0.78, 1.13)	40	1.43 (0.99, 2.08)	
Q2	151	1.05 (0.87, 1.25)	30	0.99 (0.65, 1.51)	
Q3	140	0.92 (0.76, 1.10)	41	1.15 (0.78, 1.69)	
Q4	144	0.86 (0.72, 1.03)	37	1.04 (0.72, 1.52)	
p-trend		0.10		0.96	0.53
<u>EPTC</u>					
Nonexposed	1064	Ref	207	Ref	
Q1	60	1.03 (0.79, 1.34)	14	0.95 (0.55, 1.64)	
Q2	54	1.16 (0.88, 1.53)	21	1.70 (1.08, 2.68)	
Q3	50	0.86 (0.65, 1.15)	20	1.12 (0.70, 1.79)	
Q4	50	0.81 (0.61, 1.08)	20	1.28 (0.80, 2.03)	
p-trend		0.12		0.29	0.22
<u>Alachlor</u>					
Nonexposed	587	Ref	105	Ref	
Q1	172	0.92 (0.77, 1.09)	45	1.21 (0.85, 1.73)	
Q2	175	1.01 (0.85, 1.20)	47	1.26 (0.89, 1.79)	
Q3	186	1.04 (0.88, 1.22)	30	0.82 (0.54, 1.24)	
Q4	165	0.92 (0.77, 1.09)	49	1.38 (0.98, 1.94)	
p-trend		0.46		0.16	0.11
<u>Metribuzin</u>					
Nonexposed	469	Ref	87	Ref	
Q1	67	0.90 (0.69, 1.18)	18	1.05 (0.62, 1.78)	
Q2	65	1.07 (0.82, 1.40)	24	1.61 (1.00, 2.58)	
Q3	70	0.94 (0.73, 1.22)	18	0.88 (0.51, 1.49)	
Q4	69	1.03 (0.79, 1.33)	20	1.43 (0.87, 2.37)	
p-trend		0.85		0.27	0.33
<u>Paraquat</u>					
Nonexposed	618	Ref	146	Ref	
Q1	37	1.08 (0.77, 1.52)	5	0.62 (0.25, 1.52)	
Q2	31	0.93 (0.64, 1.35)	4	**	
Q3	28	0.83 (0.56, 1.24)	9	1.13 (0.56, 2.28)	
Q4	32	0.96 (0.65, 1.40)	6	1.13 (0.48, 2.66)	
p-trend		0.74		0.67	0.59

<u>Petroleum Oil</u>					
Nonexposed	587	Ref	124	Ref	
Q1	34	0.81 (0.56, 1.16)	13	1.39 (0.78, 2.48)	
Q2	40	1.15 (0.83, 1.59)	10	1.31 (0.68, 2.51)	
Q3	38	1.02 (0.73, 1.41)	10	1.14 (0.60, 2.18)	
Q4	36	1.11 (0.80, 1.56)	9	0.97 (0.49, 1.91)	
p-trend		0.49		0.89	0.66
<u>Pendimethalin</u>					
Nonexposed	483	Ref	101	Ref	
Q1	76	0.86 (0.67, 1.10)	22	0.92 (0.54, 1.55)	
Q2	73	0.87 (0.67, 1.13)	21	1.19 (0.73, 1.94)	
Q3	76	0.87 (0.66, 1.14)	13	0.70 (0.38, 1.28)	
Q4	69	1.03 (0.80, 1.33)	21	1.61 (1.00, 2.60)	
p-trend		0.78		0.07	0.62
<u>Imazethapyr</u>					
Nonexposed	796	Ref	153	Ref	
Q1	122	0.97 (0.79, 1.19)	32	1.09 (0.72, 1.65)	
Q2	127	1.07 (0.87, 1.31)	26	0.92 (0.59, 1.43)	
Q3	112	1.04 (0.84, 1.28)	41	1.26 (0.87, 1.84)	
Q4	127	1.01 (0.82, 1.23)	27	0.91 (0.58, 1.43)	
p-trend		0.90		0.81	0.99
<u>Glyphosate</u>					
Nonexposed	280	Ref	48	Ref	
Q1	255	0.89 (0.75, 1.06)	61	1.00 (0.65, 1.53)	
Q2	251	0.93 (0.77, 1.12)	65	1.01 (0.68, 1.50)	
Q3	270	1.01 (0.85, 1.20)	61	1.00 (0.68, 1.48)	
Q4	280	1.02 (0.86, 1.21)	60	0.95 (0.64, 1.40)	
p-trend		0.27		0.71	0.86
<u>2,4,5-TP</u>					
Nonexposed	687	Ref	157	Ref	
T1	11	0.64 (0.34, 1.20)	6	1.10 (0.45, 2.68)	
T2	15	1.20 (0.72, 2.01)	3	**	
T3	13	0.92 (0.54, 1.57)	1	**	
p-trend		0.82		0.19	0.33
<u>Butylate</u>					
Nonexposed	561	Ref	110	Ref	
Q1	42	0.66 (0.48, 0.91)	16	1.02 (0.60, 1.74)	
Q2	51	1.05 (0.78, 1.40)	7	0.48 (0.22, 1.02)	
Q3	35	1.01 (0.72, 1.43)	21	2.20 (1.35, 3.56)	
Q4	46	1.23 (0.91, 1.66)	9	1.03 (0.52, 2.04)	
p-trend		0.14		0.40	0.01
<u>Trifluralin</u>					
Nonexposed	611	Ref	112	Ref	
Q1	172	0.95 (0.80, 1.13)	41	1.01 (0.69, 1.47)	
Q2	170	1.06 (0.88, 1.26)	41	1.00 (0.69, 1.45)	
Q3	170	1.04 (0.87, 1.24)	41	0.85 (0.58, 1.23)	
Q4	161	0.93 (0.78, 1.12)	43	1.04 (0.72, 1.49)	
p-trend		0.52		0.92	0.69
<u>2,4-D</u>					
Nonexposed	290	Ref	43	Ref	
Q1	262	0.93 (0.78, 1.11)	60	1.21 (0.80, 1.82)	
Q2	256	0.88 (0.74, 1.05)	68	1.29 (0.85, 1.95)	
Q3	287	1.03 (0.86, 1.22)	51	0.86 (0.56, 1.31)	
Q4	260	0.87 (0.73, 1.03)	73	1.17 (0.78, 1.75)	

p-trend		0.25		0.90	0.42
<u>2,4,5-T</u>					
Nonexposed	544	Ref	121	Ref	
Q1	43	1.23 (0.90, 1.68)	18	2.03 (1.22, 3.37)	
Q2	45	1.05 (0.77, 1.43)	11	1.13 (0.61, 2.10)	
Q3	45	0.96 (0.71, 1.30)	10	0.93 (0.48, 1.78)	
Q4	50	0.90 (0.68, 1.21)	6	0.49 (0.21, 1.11)	
p-trend		0.43		0.06	0.22
<u>Permethrin crop</u>					
Nonexposed	1141	Ref	239	Ref	
Q1	37	0.93 (0.66, 1.29)	11	0.92 (0.47, 1.81)	
Q2	40	1.12 (0.82, 1.54)	7	0.77 (0.32, 1.87)	
Q3	36	0.79 (0.56, 1.11)	11	1.30 (0.69, 2.44)	
Q4	33	0.91 (0.64, 1.29)	11	1.52 (0.83, 2.78)	
p-trend		0.46		0.15	0.16
<u>Permethrin animal</u>					
Nonexposed	1183	Ref	246	Ref	
Q1	37	1.10 (0.76, 1.58)	6	0.52 (0.19, 1.41)	
Q2	32	1.16 (0.80, 1.67)	10	1.27 (0.61, 2.64)	
Q3	33	1.14 (0.80, 1.62)	9	1.05 (0.52, 2.14)	
Q4	35	0.86 (0.61, 1.21)	7	0.69 (0.34, 1.40)	0.78
p-trend		0.48		0.35	
<u>Carbofuran</u>					
Nonexposed	891	Ref	169	Ref	
Q1	112	1.00 (0.82, 1.22)	20	0.75 (0.46, 1.22)	
Q2	91	1.10 (0.89, 1.36)	28	1.79 (1.21, 2.66)	
Q3	102	1.13 (0.92, 1.39)	29	1.33 (0.89, 1.99)	
Q4	98	0.88 (0.71, 1.08)	32	1.11 (0.76, 1.61)	
p-trend		0.30		0.49	0.28
<u>Carbaryl</u>					
Nonexposed	357	Ref	86	Ref	
Q1	100	1.04 (0.83, 1.31)	30	1.08 (0.70, 1.67)	
Q2	107	1.15 (0.91, 1.47)	23	1.09 (0.67, 1.76)	
Q3	100	1.23 (0.96, 1.56)	22	1.32 (0.79, 2.18)	
Q4	101	0.98 (0.75, 1.27)	12	0.49 (0.25, 0.97)	
p-trend		0.59		0.03	0.19
<u>Aldicarb</u>					
Nonexposed	674	Ref	154	Ref	
Q1	16	0.87 (0.53, 1.44)	3	**	
Q2	17	1.65 (1.01, 2.72)	1	**	
Q3	17	0.98 (0.59, 1.63)	3	**	
Q4	15	0.83 (0.47, 1.45)	3	**	
p-trend		0.56			
<u>Methyl bromide</u>					
Nonexposed	1166	Ref	245	Ref	
Q1	48	0.88 (0.65, 1.19)	16	1.58 (0.92, 2.73)	
Q2	48	0.84 (0.62, 1.14)	11	1.22 (0.64, 2.34)	
Q3	45	0.81 (0.60, 1.11)	13	2.00 (1.10, 3.67)	
Q4	55	1.00 (0.75, 1.33)	10	1.10 (0.55, 2.17)	
p-trend		0.97		0.79	0.10
<u>Aluminum Phosphide</u>					
Nonexposed	710	Ref	157	Ref	
T1	6	0.82 (0.37, 1.84)	4	**	
T2	8	0.60 (0.29, 1.23)	3	**	

T3	6	0.83 (0.37, 1.86)	1	**	
p-trend		0.50			
<u>Mix 80/20</u>					
Nonexposed	675	Ref	147	Ref	
T1	18	1.71 (1.07, 2.74)	7	2.34 (1.08, 5.06)	
T2	17	0.98 (0.61, 1.59)	6	2.07 (0.90, 4.72)	
T3	16	0.98 (0.60, 1.62)	4	0.96 (0.35, 2.67)	
p-trend		0.93		0.92	0.69
<u>Ethylene Dibromide</u>					
Nonexposed	699	Ref	160	Ref	
T1	10	1.22 (0.65, 2.28)	3	**	
T2	11	1.50 (0.82, 2.75)	0	**	
T3	8	0.46 (0.23, 0.93)	2	**	
p-trend		0.04			
<u>Benomyl</u>					
Nonexposed	665	Ref	156	Ref	
Q1	15	1.02 (0.61, 1.71)	2	**	
Q2	14	0.98 (0.57, 1.67)	1	**	
Q3	16	1.33 (0.80, 2.20)	2	**	
Q4	16	0.76 (0.46, 1.26)	3	**	
p-trend		0.37			
<u>Chlorothalonil</u>					
Nonexposed	1262	Ref	275	Ref	
Q1	27	0.86 (0.57, 1.30)	8	1.92 (0.91, 4.03)	
Q2	24	1.21 (0.80, 1.82)	6	1.69 (0.74, 3.87)	
Q3	23	0.75 (0.49, 1.15)	8	1.41 (0.68, 2.92)	
Q4	28	0.96 (0.65, 1.40)	3	**	
p-trend		0.65		0.29	0.16
<u>Captan</u>					
Nonexposed	1174	Ref	246	Ref	
Q1	37	1.11 (0.79, 1.54)	7	0.88 (0.39, 1.99)	
Q2	31	0.98 (0.68, 1.41)	7	1.25 (0.61, 2.54)	
Q3	33	1.14 (0.81, 1.62)	7	0.96 (0.44, 2.12)	
Q4	32	1.00 (0.69, 1.45)	8	0.96 (0.47, 1.96)	
p-trend		0.93		0.90	0.84
<u>Maneb/Mancozeb</u>					
Nonexposed	663	Ref	155	Ref	
Q1	17	1.04 (0.63, 1.73)	2	**	
Q2	15	0.92 (0.53, 1.60)	3	**	
Q3	15	0.88 (0.53, 1.47)	4	**	
Q4	14	0.93 (0.54, 1.60)	3	**	
p-trend		0.75			
<u>Metalaxyl</u>					
Nonexposed	588	Ref	142	Ref	
Q1	34	0.9 (0.63, 1.27)	9	1.1 (0.56, 2.18)	
Q2	37	1.12 (0.78, 1.61)	4	**	
Q3	36	1.13 (0.79, 1.63)	5	0.86 (0.34, 2.20)	
Q4	35	1.07 (0.74, 1.54)	6	0.95 (0.40, 2.25)	
p-trend		0.66		0.89	0.67

Abbreviations: quartile 1 (Q1); quartile 2 (Q2); quartile 3 (Q3); quartile 4 (Q4).

^aNumbers do not sum to total due to missing data.

^bAdjusted for age, state, race, smoking, fruit servings, and leisure time physical activity in the winter