Draft Washington Human Health Criteria

<u>Section 1</u> – Freshwater criteria comparison by chemical

<u>Section 2</u> – Marine water criteria comparison by chemical

<u>Section 3</u> – Comparison Summary of current NTR and Governor's proposal

Draft WA Human Health Criteria - FRESHWATER

FRESHWATER	Scenario 1 (NTR)	Scenario 2	Scenario 3	Governor's Proposal	Compared to NTR, does the criteria go up, down, or stay the same?			What Factor does Gov's Proposal go down compared to NTR?	Change in TOX from NTR?
Body Weight (BW) →	70 kg	80 kg	80 kg	Lowest of NTR or Scenario 3					
Drinking Water Intake (DI) →	2 L	2 L	2 L						
Fish Consumption Rate (FCR) →	6.5 g/day	175 g/day	175 g/day		Scenario 2	Scenario 3	Gov's Proposal		yes(L)
Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
1,1,2,2-Tetrachloroethane	0.17	0.14	1.4	0.17	down	up	same	1.0	no
1,1,2-Trichloroethane	0.60	0.50	5.0	0.60	down	up	same	1.0	no
1,1-Dichloroethylene	0.057	1,342	1,342	0.057	up	up	same	1.0	yes(H)
1,2,4-Trichlorobenzene	NC	36	36	36	--	--	--	--	--
1,2-Dichlorobenzene	2,700	614	614	614	down	down	down	4.4	no
1,2-Dichloroethane	0.38	0.40	4.0	0.38	up	up	same	1.0	no
1,2-Dichloropropane	NC	0.44	4.4	4.4	--	--	--	--	--
1,2-Diphenylhydrazine	0.040	0.016	0.16	0.040	down	up	same	1.0	no
1,2-Trans-Dichloroethylene	NC	703	703	703	--	--	--	--	--
1,3-Dichlorobenzene	400	91	91	91	down	down	down	4.4	no
1,3-Dichloropropene	10	10	10	10	up	up	same	1.0	no
1,4-Dichlorobenzene	400	91	91	91	down	down	down	4.4	no
2,3,7,8-TCDD (Dioxin)	0.000000013	0.000000064	0.000000064	0.000000013	up	up	same	1.0	yes(H)
2,4,6-Trichlorophenol	2.1	0.26	2.6	2.1	down	up	same	1.0	no
2,4-Dichlorophenol	93	26	26	26	down	down	down	3.5	no
2,4-Dimethylphenol	NC	87	87	87	--	--	--	--	--
2,4-Dinitrophenol	70	71	71	70	up	up	same	1.0	no
2,4-Dinitrotoluene	0.11	0.10	0.97	0.11	down	up	same	1.0	no
2-Chloronaphthalene	NC	171	171	171	--	--	--	--	--
2-Chlorophenol	NC	16	16	16	--	--	--	--	--
2-Methyl-4,6-Dinitrophenol	13	11	11	11	down	down	down	1.3	no
3,3'-Dichlorobenzidine	0.040	0.0031	0.031	0.031	down	down	down	1.3	no
4,4'-DDD	0.00083	0.000036	0.00036	0.00036	down	down	down	2.3	no
4,4'-DDE	0.00059	0.000025	0.00025	0.00025	down	down	down	2.4	no
4,4'-DDT	0.00059	0.000025	0.00025	0.00025	down	down	down	2.4	no
Acenaphthene	NC	108	108	108	--	--	--	--	--
Acrolein	320	1.0	1.0	1.0	down	down	down	317.0	yes(L)
Acrylonitrile	0.059	0.020	0.20	0.059	down	up	same	1.0	no

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Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
Aldrin	0.00013	0.0000057	0.000057	0.000057	down	down	down	2.3	no
alpha-BHC	0.0039	0.00051	0.0051	0.0039	down	up	same	1.0	no
alpha-Endosulfan	0.93	9.7	9.7	0.93	up	up	same	1.0	yes(H)
Anthracene	9,600	3,310	3,310	3,310	down	down	down	2.9	no
Antimony	14	15	15	14	up	up	same	1.0	no
Arsenic	0.018	0.018	0.018	10*	same	same	up	--	--
Asbestos	7,000,000fibers/L*	7,000,000fibers/L*	7,000,000fibers/L*	7,000,000fibers/L*	same	same	same	1.0	no
Benzene	1.2	1.8	18	1.2	up	up	same	1.0	yes(H)
Benzidine	0.00012	0.000020	0.00020	0.00012	down	up	same	1.0	no
Benzo(a)Anthracene	0.0028	0.0015	0.015	0.0028	down	up	same	1.0	yes(H)
Benzo(a)Pyrene	0.0028	0.0015	0.015	0.0028	down	up	same	1.0	yes(H)
Benzo(b)Fluoranthene	0.0028	0.0015	0.015	0.0028	down	up	same	1.0	yes(H)
Benzo(k)Fluoranthene	0.0028	0.0015	0.015	0.0028	down	up	same	1.0	yes(H)
beta-BHC	0.014	0.0018	0.018	0.014	down	up	same	1.0	no
beta-Endosulfan	0.93	9.7	9.7	0.93	up	up	same	1.0	yes(H)
Bis(2-Chloroethyl)Ether	0.031	0.023	0.23	0.031	down	up	same	1.0	no
Bis(2-Chloroisopropyl) Ether	1,400	1,316	1,316	1,316	down	down	down	1.1	no
Bis(2-Ethylhexyl) Phthalate	1.8	0.23	2.3	1.8	down	up	same	1.0	no
Bromoform	4.3	3.8	38	4.3	down	up	same	1.0	no
Butylbenzyl Phthalate	NC	215	215	215	--	--	--	--	--
Carbon Tetrachloride	0.25	0.12	1.2	0.25	down	up	same	1.0	no
Chlordane	0.00057	0.000093	0.00093	0.00057	down	up	same	1.0	yes(H)
Chlorobenzene	680	421	421	421	down	down	down	1.6	no
Chlorodibromomethane	0.41	0.36	3.6	0.41	down	up	same	1.0	no
Chloroform	5.7	301	301	5.7	up	up	same	1.0	yes(H)
Chrysene	0.0028	0.0015	0.015	0.0028	down	up	same	1.0	yes(H)
Copper	NC	1,300*	1,300*	1300*	down	down	--	--	--
Cyanide	700	736	736	700	up	up	same	1.0	no

Revised 7/18/14

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Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
Dibenzo (a,h) Anthracene	0.0028	0.0015	0.015	0.0028	down	up	same	1.0	yes(H)
Dichlorobromomethane	0.27	0.49	4.9	0.27	up	up	same	1.0	yes(H)
Dieldrin	0.00014	0.0000061	0.000061	0.000061	down	down	down	2.3	no
Diethyl Phthalate	23,000	4,332	4,332	4,332	down	down	down	5.3	no
Dimethyl Phthalate	313,000	96,386	96,386	96,386	down	down	down	3.2	no
Di-n-Butyl Phthalate	2,700	455	455	455	down	down	down	5.9	no
Endosulfan Sulfate	0.93	9.7	9.7	0.93	up	up	same	1.0	yes(H)
Endrin	0.76	0.034	0.034	0.034	down	down	down	22.1	no
Endrin Aldehyde	0.76	0.034	0.034	0.034	down	down	down	22.1	no
Ethylbenzene	3,100	934	934	934	down	down	down	3.3	no
Fluoranthene	300	16	16	16	down	down	down	19.1	no
Fluorene	1,300	441	441	441	down	down	down	2.9	no
gamma-BHC (Lindane)	0.019	0.97	0.97	0.019	up	up	same	1.0	yes(H)
Heptachlor	0.00021	0.0000091	0.000091	0.000091	down	down	down	2.3	no
Heptachlor Epoxide	0.00010	0.0000045	0.000045	0.000045	down	down	down	2.2	no
Hexachlorobenzene	0.00075	0.000033	0.00033	0.00033	down	down	down	2.3	no
Hexachlorobutadiene	0.44	0.41	4.1	0.44	down	up	same	1.0	no
Hexachloro-cyclopentadiene	240	174	174	174	down	down	down	1.4	yes(L)
Hexachloroethane	1.9	0.33	3.3	1.9	down	up	same	1.0	no
Indeno (1,2,3-cd) Pyrene	0.0028	0.0015	0.015	0.0028	down	up	same	1.0	yes(H)
Isophorone	8.4	30	304	8.4	up	up	same	1.0	yes(H)
Methyl Bromide	48	42	42	42	down	down	down	1.1	no
Methylene Chloride	4.7	4.9	49	4.7	up	up	same	1.0	no
Nickel	610	156	156	156	down	down	down	3.9	no
Nitrobenzene	17	16	16	16	down	down	down	1.1	no
N-Nitrosodimethylamine	0.00069	0.00078	0.0078	0.00069	up	up	same	1.0	no
N-Nitrosodi-n-Propylamine	NC	0.0052	0.052	0.052	--	--	--	--	--
N-Nitrosodiphenylamine	5.0	0.63	6.3	5.0	down	up	same	1.0	no

Revised 7/18/14

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Fish Consumption Rate (FCR) →	6.5 g/day	175 g/day	175 g/day		Scenario 2	Scenario 3	Gov's Proposal		yes(L)
Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
Pentachlorophenol	0.28	0.17	1.7	0.28	down	up	same	1.0	no
Phenol	21,000	10,690	10,690	10,690	down	down	down	2.0	yes(L)
Polychlorinated Biphenyls (PCBs)	0.00017	0.0000073	0.000073	0.00017**	up	up	same	1.0	no
Pyrene	960	331	331	331	down	down	down	2.9	no
Selenium	NC	141	141	141	--	--	--	--	--
Tetrachloroethylene	0.80	0.27	2.7	0.80	down	up	same	1.0	no
Thallium	1.7	0.24	0.24	0.24	down	down	down	7.0	no
Toluene	6,800	4,132	4,132	4,132	down	down	down	1.6	no
Toxaphene	0.00073	0.000032	0.00032	0.00032	down	down	down	2.3	no
Trichloroethylene	2.7	1.6	16	2.7	down	up	same	1.0	no
Vinyl Chloride	2.0	0.026	0.26	0.26	down	down	down	7.7	yes(L)
Zinc	NC	2,347	2,347	2,347	--	--	--	--	--

GENERAL NOTES:

All criteria values are expressed as ug/L unless noted otherwise

Red Font indicates Carcinogen

Criterion is Lower Compared to NTR

Criterion is Higher Compared to NTR

Criterion is for New Chemical

Criterion remaining the same are not shaded

Change in TOX indicates a new toxicity factor is used to calculate the numerical criterion and whether it drives the numerical criterion value lower (L) or higher (H)

FOOTNOTES:

* Based on Drinking Water MCL

** PCB calculated with 4×10^{-5} risk level resulting in a criterion of 0.00029 ug/L; since it is higher than NTR, the NTR is used in Governor's proposal.

Draft WA Human Health Criteria - MARINE WATER

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Body Weight (BW) →	70 kg	80 kg	80 kg	Lowest of NTR or Scenario 3					
Drinking Water Intake (DI) →	0	0	0						
Fish Consumption Rate (FCR) →	6.5 g/day	175 g/day	175 g/day		Scenario 2	Scenario 3	Gov's Proposal		yes(L)
Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
1,1,2,2-Tetrachloroethane	11	0.46	4.6	4.6	down	down	down	2.4	no
1,1,2-Trichloroethane	42	1.8	18	18	down	down	down	2.4	no
1,1-Dichloroethylene	3.2	4,082	4,082	3.2	up	up	same	1.0	yes(H)
1,2,4-Trichlorobenzene	NC	40	40	40	--	--	--	--	--
1,2-Dichlorobenzene	17,000	740	740	740	down	down	down	23.0	no
1,2-Dichloroethane	99	4.2	42	42	down	down	down	2.4	no
1,2-Dichloropropane	NC	1.7	17	17	--	--	--	--	--
1,2-Diphenylhydrazine	0.54	0.023	0.23	0.23	down	down	down	2.4	no
1,2-Trans-Dichloroethylene	NC	5,787	5,787	5,787	--	--	--	--	--
1,3-Dichlorobenzene	2,600	110	110	110	down	down	down	23.6	no
1,3-Dichloropropene	1,700	72	72	72	down	down	down	23.6	no
1,4-Dichlorobenzene	2,600	110	110	110	down	down	down	23.6	no
2,3,7,8-TCDD (Dioxin)	0.000000014	0.000000064	0.000000064	0.000000014	up	up	same	1.0	yes(H)
2,4,6-Trichlorophenol	6.5	0.28	2.8	2.8	down	down	down	2.3	no
2,4-Dichlorophenol	790	34	34	34	down	down	down	23.4	no
2,4-Dimethylphenol	NC	97	97	97	--	--	--	--	--
2,4-Dinitrophenol	14,000	610	610	610	down	down	down	23.0	no
2,4-Dinitrotoluene	9.1	0.39	3.9	3.9	down	down	down	2.4	no
2-Chloronaphthalene	NC	181	181	181	--	--	--	--	--
2-Chlorophenol	NC	17	17	17	--	--	--	--	--
2-Methyl-4,6-Dinitrophenol	765	32	32	32	down	down	down	23.6	no
3,3'-Dichlorobenzidine	0.077	0.0033	0.033	0.033	down	down	down	2.4	no
4,4'-DDD	0.00084	0.000036	0.00036	0.00036	down	down	down	2.4	no
4,4'-DDE	0.00059	0.000025	0.00025	0.00025	down	down	down	2.4	no
4,4'-DDT	0.00059	0.000025	0.00025	0.00025	down	down	down	2.4	no
Acenaphthene	NC	113	113	113	--	--	--	--	--
Acrolein	780	1.1	1.1	1.1	down	down	down	733.7	yes(L)
Acrylonitrile	0.66	0.028	0.28	0.28	down	down	down	2.3	no

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Drinking Water Intake (DI) →	0	0	0						
Fish Consumption Rate (FCR) →	6.5 g/day	175 g/day	175 g/day		Scenario 2	Scenario 3	Gov's Proposal		yes(L)
Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
Aldrin	0.00014	0.0000058	0.000058	0.000058	down	down	down	2.4	no
alpha-BHC	0.013	0.00056	0.0056	0.0056	down	down	down	2.3	no
alpha-Endosulfan	2.0	10	10	2.0	up	up	same	1.0	yes(H)
Anthracene	110,000	4,571	4,571	4,571	down	down	down	24.1	no
Antimony	4,300	183	183	183	down	down	down	23.5	no
Arsenic	0.14	0.14	0.14	10*	same	same	up	--	--
Asbestos	NC	NC	NC	NC	same	same	same	--	no
Benzene	71	5.9	59	59	down	down	down	1.2	yes(H)
Benzidine	0.00054	0.000023	0.00023	0.00023	down	down	down	2.4	no
Benzo(a)Anthracene	0.031	0.0021	0.021	0.021	down	down	down	1.5	yes(H)
Benzo(a)Pyrene	0.031	0.0021	0.021	0.021	down	down	down	1.5	yes(H)
Benzo(b)Fluoranthene	0.031	0.0021	0.021	0.021	down	down	down	1.5	yes(H)
Benzo(k)Fluoranthene	0.031	0.0021	0.021	0.021	down	down	down	1.5	yes(H)
beta-BHC	0.046	0.0020	0.020	0.020	down	down	down	2.4	no
beta-Endosulfan	2.0	10	10	2.0	up	up	same	1.0	yes(H)
Bis(2-Chloroethyl)Ether	1.4	0.060	0.60	0.60	down	down	down	2.3	no
Bis(2-Chloroisopropyl) Ether	170,000	7,403	7,403	7,403	down	down	down	23.0	no
Bis(2-Ethylhexyl) Phthalate	5.9	0.25	2.5	2.5	down	down	down	2.3	no
Bromoform	360	15	154	154	down	down	down	2.3	no
Butylbenzyl Phthalate	NC	221	221	221	--	--	--	--	--
Carbon Tetrachloride	4.4	0.19	1.9	1.9	down	down	down	2.3	no
Chlordane	0.00059	0.000093	0.00093	0.00059	down	up	same	1.0	yes(H)
Chlorobenzene	21,000	888	888	888	down	down	down	23.7	no
Chlorodibromomethane	34	1.5	15	15	down	down	down	2.3	no
Chloroform	470	1,219	1,219	470	up	up	same	1.0	yes(H)
Chrysene	0.031	0.0021	0.021	0.021	down	down	down	1.5	yes(H)
Copper	NC	NC	NC	NC	same	same	--	--	--
Cyanide	220,000	9,143	9,143	9,143	down	down	down	24.1	no

Revised 7/18/14

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Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
Dibenzo (a,h) Anthracene	0.031	0.0021	0.021	0.021	down	down	down	1.5	yes(H)
Dichlorobromomethane	22	2.0	20	20	down	down	down	1.1	yes(H)
Dieldrin	0.00014	0.0000061	0.000061	0.000061	down	down	down	2.3	no
Diethyl Phthalate	120,000	5,010	5,010	5,010	down	down	down	24.0	no
Dimethyl Phthalate	2,900,000	126,984	126,984	126,984	down	down	down	22.8	no
Di-n-Butyl Phthalate	12,000	514	514	514	down	down	down	23.4	no
Endosulfan Sulfate	2.0	10	10	2.0	up	up	same	1.0	yes(H)
Endrin	0.81	0.035	0.035	0.035	down	down	down	23.4	no
Endrin Aldehyde	0.81	0.035	0.035	0.035	down	down	down	23.4	no
Ethylbenzene	29,000	1,219	1,219	1,219	down	down	down	23.8	no
Fluoranthene	370	16	16	16	down	down	down	23.3	no
Fluorene	14,000	610	610	610	down	down	down	23.0	no
gamma-BHC (Lindane)	0.063	1.1	1.1	0.063	up	up	same	1.0	yes(H)
Heptachlor	0.00021	0.0000091	0.000091	0.000091	down	down	down	2.3	no
Heptachlor Epoxide	0.00011	0.0000045	0.000045	0.000045	down	down	down	2.5	no
Hexachlorobenzene	0.00077	0.000033	0.00033	0.00033	down	down	down	2.3	no
Hexachlorobutadiene	50	2.1	21	21	down	down	down	2.4	no
Hexachloro-cyclopentadiene	17,000	632	632	632	down	down	down	26.9	yes(L)
Hexachloroethane	8.9	0.38	3.8	3.8	down	down	down	2.4	no
Indeno (1,2,3-cd) Pyrene	0.031	0.0021	0.021	0.021	down	down	down	1.5	yes(H)
Isophorone	600	110	1,099	600	down	up	same	1.0	yes(H)
Methyl Bromide	4,000	171	171	171	down	down	down	23.4	no
Methylene Chloride	1,600	68	677	677	down	down	down	2.4	no
Nickel	4,600	195	195	195	down	down	down	23.6	no
Nitrobenzene	1,900	79	79	79	down	down	down	24.0	no
N-Nitrosodimethylamine	8.1	0.34	3.4	3.4	down	down	down	2.3	no
N-Nitrosodi-n-Propylamine	NC	0.058	0.58	0.58	--	--	--	--	--
N-Nitrosodiphenylamine	16	0.69	6.9	6.9	down	down	down	2.3	no

Revised 7/18/14

Draft WA Human Health Criteria - MARINE WATER

MARINE	Scenario 1 (NTR)	Scenario 2	Scenario 3	Governor's Proposal	Compared to NTR, does the criteria go up, down, or stay the same?			What Factor does Gov's Proposal go down compared to NTR?	Change in TOX from NTR?
Body Weight (BW) →	70 kg	80 kg	80 kg	Lowest of NTR or Scenario 3					
Drinking Water Intake (DI) →	0	0	0						
Fish Consumption Rate (FCR) →	6.5 g/day	175 g/day	175 g/day		Scenario 2	Scenario 3	Gov's Proposal		yes(L)
Cancer Risk Level (RL) →	1×10^{-6}	1×10^{-6}	1×10^{-5}						yes(H)
Pentachlorophenol	8.2	0.35	3.5	3.5	down	down	down	2.4	no
Phenol	4,600,000	97,959	97,959	97,959	down	down	down	47.0	yes(L)
Polychlorinated Biphenyls (PCBs)	0.00017	0.0000073	0.000073	0.00017**	down	down	same	1.0	no
Pyrene	11,000	457	457	457	down	down	down	24.1	no
Selenium	NC	476	476	476	--	--	--	--	--
Tetrachloroethylene	8.9	0.38	3.8	3.8	down	down	down	2.4	no
Thallium	6.3	0.27	0.27	0.27	down	down	down	23.5	no
Toluene	200,000	8,545	8,545	8,545	down	down	down	23.4	no
Toxaphene	0.00075	0.000032	0.00032	0.00032	down	down	down	2.4	no
Trichloroethylene	81	3.4	34	34	down	down	down	2.4	no
Vinyl Chloride	525	0.28	2.8	2.8	down	down	down	188.1	yes(L)
Zinc	NC	2,918	2,918	2,918	--	--	--	--	--

GENERAL NOTES:

All criteria values are expressed as ug/L unless noted otherwise

Red Font indicates Carcinogen

Criterion is Lower Compared to NTR

Criterion is Higher Compared to NTR

Criterion is for New Chemical

Criterion remaining the same are not shaded

Change in TOX indicates a new toxicity factor is used to calculate the numerical criterion and whether it drives the numerical criterion value lower (L) or higher (H)

FOOTNOTES:

* Based on Drinking Water MCL

** PCB calculated with 4×10^{-5} risk level resulting in a criterion of 0.00029 ug/L; since it is higher than NTR, the NTR is used in Governor's proposal.

Compared to the Current (NTR) Criteria, what does each chemical do under the Governor's Proposal?

FRESH

Carcinogens 1-2X More Protective	Count 1
3,3'-Dichlorobenzidine	

Carcinogens 2-5X More Protective	Count 9
4,4'-DDD	
4,4'-DDE	
4,4'-DDT	
Aldrin	
Dieldrin	
Heptachlor	
Heptachlor Epoxide	
Hexachlorobenzene	
Toxaphene	

Carcinogens 5-10X More Protective	Count 1
Vinyl Chloride	

Carcinogens Remaining the same	Count 40
1,1,2,2-Tetrachloroethane	
1,1,2-Trichloroethane	
1,1-Dichloroethylene	
1,2-Dichloroethane	
1,2-Diphenylhydrazine	
2,3,7,8-TCDD (Dioxin)	
2,4,6-Trichlorophenol	
2,4-Dinitrotoluene	
Acrylonitrile	
alpha-BHC	
Asbestos	
Benzene	
Benzidine	
Benzo(a)Anthracene	
Benzo(a)Pyrene	
Benzo(b)Fluoranthene	
Benzo(k)Fluoranthene	
beta-BHC	
Bis(2-Chloroethyl)Ether	
Bis(2-Ethylhexyl) Phthalate	
Bromoform	
Carbon Tetrachloride	

MARINE

Carcinogens 1-2X More Protective	Count 9
Benzene	
Benzo(a)Anthracene	
Benzo(a)Pyrene	
Benzo(b)Fluoranthene	
Benzo(k)Fluoranthene	
Chrysene	
Dibenzo (a,h) Anthracene	
Dichlorobromomethane	
Indeno (1,2,3-cd) Pyrene	

Carcinogens 2-5X More Protective	Count 33
1,1,2,2-Tetrachloroethane	
1,1,2-Trichloroethane	
1,2-Dichloroethane	
1,2-Diphenylhydrazine	
2,4,6-Trichlorophenol	
2,4-Dinitrotoluene	
3,3'-Dichlorobenzidine	
4,4'-DDD	
4,4'-DDE	
4,4'-DDT	
Acrylonitrile	
Aldrin	
alpha-BHC	
Benzidine	
beta-BHC	
Bis(2-Chloroethyl)Ether	
Bis(2-Ethylhexyl) Phthalate	
Bromoform	
Carbon Tetrachloride	
Chlorodibromomethane	
Dieldrin	
Heptachlor	
Heptachlor Epoxide	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachloroethane	
Methylene Chloride	
N-Nitrosodimethylamine	

Chlordane
Chlorodibromomethane
Chloroform
Chrysene
Dibenzo (a,h) Anthracene
Dichlorobromomethane
gamma-BHC (Lindane)
Hexachlorobutadiene
Hexachloroethane
Indeno (1,2,3-cd) Pyrene
Isophorone
Methylene Chloride
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Polychlorinated Biphenyls (PCBs)
Tetrachloroethylene
Trichloroethylene

Carcinogens Less Protective	1
Arsenic	

New Carcinogens	2
1,2-Dichloropropane	
N-Nitrosodi-n-Propylamine	

Non-Carcinogens 1-2X More Protective	8
2-Methyl-4,6-Dinitrophenol	
Bis(2-Chloroisopropyl) Ether	
Chlorobenzene	
Hexachloro-cyclopentadiene	
Methyl Bromide	
Nitrobenzene	
Phenol	
Toluene	

Non-Carcinogens 2-5X More Protective	10
1,2-Dichlorobenzene	
1,3-Dichlorobenzene	
1,4-Dichlorobenzene	
2,4-Dichlorophenol	
Anthracene	
Dimethyl Phthalate	
Ethylbenzene	

N-Nitrosodiphenylamine
Pentachlorophenol
Tetrachloroethylene
Toxaphene
Trichloroethylene

Carcinogens >10X More Protective	1
Vinyl Chloride	

Carcinogens Remaining the same	7
1,1-Dichloroethylene	
2,3,7,8-TCDD (Dioxin)	
Chlordane	
Chloroform	
gamma-BHC (Lindane)	
Isophorone	
Polychlorinated Biphenyls (PCBs)	

Carcinogens Less Protective	1
Arsenic	

New Carcinogens	2
1,2-Dichloropropane	
N-Nitrosodi-n-Propylamine	

Non-Carcinogens >10X More Protective	29
1,2-Dichlorobenzene	
1,3-Dichlorobenzene	
1,3-Dichloropropene	
1,4-Dichlorobenzene	
2,4-Dichlorophenol	
2,4-Dinitrophenol	
2-Methyl-4,6-Dinitrophenol	
Acrolein	
Anthracene	
Antimony	
Bis(2-Chloroisopropyl) Ether	
Chlorobenzene	
Cyanide	
Diethyl Phthalate	
Dimethyl Phthalate	
Di-n-Butyl Phthalate	
Endrin	

Fluorene
Nickel
Pyrene

Non-Carcinogens 5-10X More Protective	3
Diethyl Phthalate	
Di-n-Butyl Phthalate	
Thallium	

Non-Carcinogens >10X More Protective	4
Acrolein	
Endrin	
Endrin Aldehyde	
Fluoranthene	

Non-Carcinogens Remaining the same	7
1,3-Dichloropropene	
2,4-Dinitrophenol	
alpha-Endosulfan	
Antimony	
beta-Endosulfan	
Cyanide	
Endosulfan Sulfate	

New Non-Carcinogens	10
1,2,4-Trichlorobenzene	
1,2-Trans-Dichloroethylene	
2,4-Dimethylphenol	
2-Chloronaphthalene	
2-Chlorophenol	
Acenaphthene	
Butylbenzyl Phthalate	
Copper	
Selenium	
Zinc	

Total Carcinogens = 54
Total Non-Carcinogens = 42
TOTAL CHEMICALS = **96**

Endrin Aldehyde
Ethylbenzene
Fluoranthene
Fluorene
Hexachloro-cyclopentadiene
Methyl Bromide
Nickel
Nitrobenzene
Phenol
Pyrene
Thallium
Toluene

Non-Carcinogens Remaining the same	3
alpha-Endosulfan	
beta-Endosulfan	
Endosulfan Sulfate	

New Non-Carcinogens	9
1,2,4-Trichlorobenzene	
1,2-Trans-Dichloroethylene	
2,4-Dimethylphenol	
2-Chloronaphthalene	
2-Chlorophenol	
Acenaphthene	
Butylbenzyl Phthalate	
Selenium	
Zinc	

Total Carcinogens = 53
Total Non-Carcinogens = 41
TOTAL CHEMICALS = **94**