

Hess et al.— Assessment of Juniper Ash Elemental Composition for Potential Use in a Traditional Indigenous Dietary Pattern

[Supplemental Figures and Tables](#)

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Supplemental Figures

Hess et al.— Assessment of Juniper Ash Elemental Composition for Potential Use in a Traditional Indigenous Dietary Pattern

Supplemental Figure 1. Rocky Mountain Juniper branches (large) after bark removal



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Supplemental Figure 2. Eastern Redcedar Juniper branches (medium) after bark removal



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Supplemental Figure 3. Eastern Redcedar Juniper branches (small) after bark removal



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Supplemental Figure 4. Small Eastern Redcedar (from left, first and second specimens) and Rocky Mountain Juniper (third from left) specimens after bark removal



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Supplemental Figure 5. Dehydration process of juniper ash woodchips with crucible for scale



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Supplemental Figure 6. Dehydrated juniper woodchips



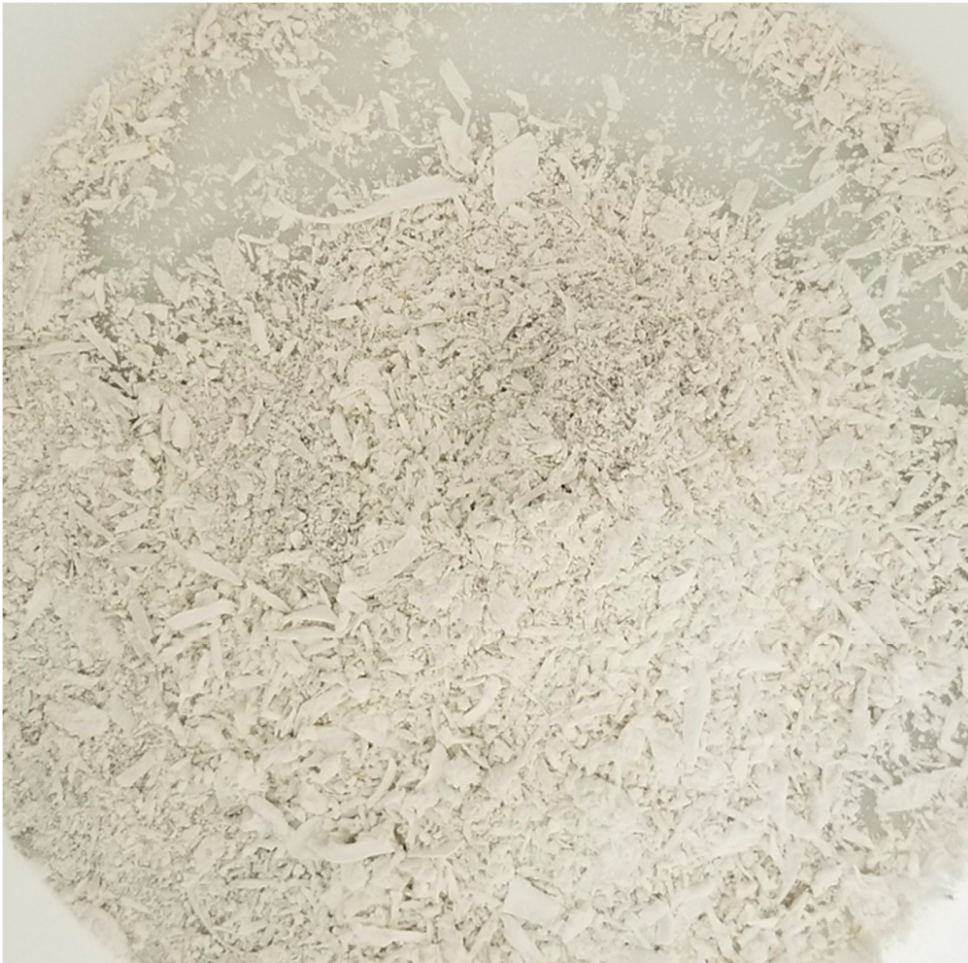
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Supplemental Figure 7. Crucibles filled with juniper woodchips in furnace



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Supplemental Figure 8. Laboratory-made juniper ash close-up



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Supplemental Figure 9. Appearance of vendor-purchased juniper ash



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Supplemental Tables

Supplemental Table 1. Source of Juniper Ash used in Analysis

<i>Genus and Species</i>	<i>Juniperus virginiana</i>	<i>Juniperus scopulorum</i>
<i>Geographic location</i>	Southeastern North Dakota	Western North Dakota
<i>Status</i>	Most branches alive upon collection	Dead upon collection

Supplemental Table 2. Diameters of Branches (after bark removal)

	Rocky Mountain Juniper (largest branches)		Eastern Redcedar (medium branches)		Eastern Redcedar (smallest branches)	
	Total	Heartwood	Total	Heartwood	Total	Heartwood
<i>Largest (cm)</i>	7	5.6	5.7	4.6	1.4	0.3
<i>Smallest (cm)</i>	3	2.3	2.3	1	0.6	0

	Rocky Mountain Juniper (largest branches)		Eastern Redcedar (medium branches)		Eastern Redcedar (smallest branches)	
	Largest	Smallest	Largest	Smallest	Largest	Smallest
<i>Heartwood (cm)</i>	5.6	2.3	4.6	1	0.3	0
<i>Total (cm)</i>	7	3	5.7	2.3	1.3	0.6
<i>Percentage of Heartwood to Total (%)</i>	80	77	81	43	21	0

Supplemental Table 3. Initial Bark and Wood Weights

	Rocky Mountain Juniper (largest branches)	Eastern Redcedar (medium branches)	Eastern Redcedar (smallest branches)
<i>Raw weight (g)</i>	≈2497.16	≈3275.79	902.17
<i>Bark weight (g)</i>	551.68	398.79	192.88
<i>End weight (g)</i>	1945.48	2877	710.53

Supplemental Table 4. Weights before and after dehydration process

	Rocky Mountain Juniper (largest branches)	Eastern Red Cedar (small and medium branches)
<i>Raw weight (g)</i>	1945.48	3587.53
<i>End weight (g)</i>	1093.53	3181.54
<i>Total water loss (g)</i>	851.95	405.99

Supplemental Table 5. Juniper weights before and after burning process

	Rocky Mountain Juniper (largest branches)	Eastern Red Cedar (small and medium branches)
<i>Raw weight (g)</i>	1093.53	3181.54
<i>End weight (g)</i>	12.49	30.11

Supplemental Table 6. Pesticides included in Juniper Ash Analysis

Parameter	Technique/ Instrument	Rocky Mountain Juniper Ash (mg/kg)	Eastern Red Cedar Ash (mg/kg)	Eastern Red Cedar Ash 2 (mg/kg)	Retail Juniper Ash (mg/kg)	Limit of Quantitation
2,4,6- Trichloroanisole	GC-MS/MS	<0.010	<0.010	<0.010	<0.010	0.010
2,4,6- Trichlorophenol	GC	<0.010	<0.010	<0.010	<0.010	0.010
2-phenylphenol (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
3-OH carbofuran (SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
8- hydroxyquinoline (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Abamectin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Acephate	LC	<0.010	<0.010	<0.010	<0.010	0.010
Acequinocyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Acetamiprid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Acetochlor	GC	<0.010	<0.010	<0.010	<0.010	0.010
Acibenzolar-S- methyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Acrinathrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Alachlor	GC	<0.010	<0.010	<0.010	<0.010	0.010
Aldicarb (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Aldicarb (sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Aldicarb- sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Aldicarb- sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Aldrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Alpha Endosulfan	GC	<0.010	<0.010	<0.010	<0.010	0.010
Alph-HCH	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ametoctradin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ametryn	GC	<0.010	<0.010	<0.010	<0.010	0.010
Aminocarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Amitraz (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Anthraquinone	GC	<0.010	<0.010	<0.010	<0.010	0.010
Atrazine	GC	<0.010	<0.010	<0.010	<0.010	0.010
Atrazine Desisopropyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Azaconazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Azadirachtin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Azamethiphos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Azimsulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Azinphos-ethyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Azinphos-methyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Azocyclotin and Cyhexatin (SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Azoxystrobin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Beflubutamid	GC	<0.010	<0.010	<0.010	<0.010	0.010
Benalaxyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ben-Carb-TPM (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Bendiocarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Benfluralin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bentazone (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Bentazones-methyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Benthiavalicarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Beta Endosulfan	GC	<0.010	<0.010	<0.010	<0.010	0.010
Beta-HCH	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bifenazate-Bifenazate Diazene	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bifenox	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bifenthrin	GC	<0.025	<0.025	<0.025	<0.025	0.025
Bioallethrin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Biphenyl	GC	<0.025	<0.025	<0.025	<0.025	0.025
Bitertanol	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bixafen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Boscalid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Bromacil	LC	<0.010	<0.010	<0.010	<0.010	0.010
Bromophos-ethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bromophos-methyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bromopropylate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Bromoxynil (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Bromuconazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
BTS 44595	LC	<0.010	<0.010	<0.010	<0.010	0.010
BTS 44596	LC	<0.010	<0.010	<0.010	<0.010	0.010
Bupirimate (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Buprofezin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Butachlor	LC	<0.010	<0.010	<0.010	<0.010	0.010
Butocarboxim	LC	<0.010	<0.010	<0.010	<0.010	0.010
Butoxycarboxim Sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Butralin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Buturon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cadusafos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Captan	GC	<0.010	<0.010	<0.010	<0.010	0.010
Captan (sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Carbaryl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Carbendazim and Benomyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Carbetamide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Carbofuran (SP/SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Carbophenothion	GC	<0.010	<0.010	<0.010	<0.010	0.010
Carboxin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Carfentrazone-ethyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chinomethionate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorantraniliprole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorbromuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chlordane (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlordane Cis	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorfenapyr	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorfenson	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorfenvinphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorfluazuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chloridazon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chlormephos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorobenzilate +Chloropropylate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorothalonil	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorotoluron	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chloroxuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorpropham (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorpyrifos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorpyrifos-methyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorsulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorthal-dimethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorthion	GC	<0.010	<0.010	<0.010	<0.010	0.010
Chlorthiophos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Chlozolate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Cinidon-ethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Clethodim (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Clethodim Sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Clofentezine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Clomazone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Clopyralid	LC	<0.150	<0.150	<0.150	<0.150	0.150
Clothianidin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Coumaphos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Crimidine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyanazine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyantraniliprole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyazofamid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyclanilide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cycloate	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cycloxydim (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyenopyrafen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyflufenamid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyflumetofen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyfluthrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Cyhalofop-butyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cymoxanil	LC	<0.010	<0.010	<0.010	<0.010	0.010
Cyproconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Cyprodinil	GC	<0.010	<0.010	<0.010	<0.010	0.010
Cyromazine	LC	<0.010	<0.010	<0.010	<0.010	0.010
DDD-pp+DDT-op	GC	<0.010	<0.010	<0.010	<0.010	0.010
DDT (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
DEET	GC	<0.025	<0.025	<0.025	<0.025	0.025
delta-HCH	GC	<0.025	<0.010	<0.010	<0.010	0.010
Deltamethrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Demeton S	LC	<0.010	<0.010	<0.010	<0.010	0.010
Demeton-S-methyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Demeton-S-methylsulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Demeton-S-sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Desethyl atrazine	GC	<0.010	<0.010	<0.010	<0.010	0.010
Desmedipham	LC	<0.010	<0.010	<0.010	<0.010	0.010
Desmetryn	LC	<0.010	<0.010	<0.010	<0.010	0.010
Diafenthiuron	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dialifos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Diazinon	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dichlobenil	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dichlofenthion	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dichlofluanid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dichlormid	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Dichlorvos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Diclobutrazol	GC	<0.010	<0.010	<0.010	<0.010	0.010
Diclofop (SP/SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Diclofop-methyl (SP/SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Diclofop (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dicloran	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dicloroprop (added by Request)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dicofol (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dicofol o,p	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dicofol p,p'	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dicrotophos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dieldrin (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dieldrin (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Diethofencarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Difenoconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Diflubenzuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Diflufenican	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dimefox	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dimefuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dimethachlor	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dimethenamid-P	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dimethoate	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dimethoate (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dimethomorph	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dimoxystrobin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Diniconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dinobuton	GC	<0.010	<0.010	<0.010	<0.010	0.010
Dinotefuran	LC	<0.010	<0.010	<0.010	<0.010	0.010
Diphenylamine	GC	<0.010	<0.010	<0.010	<0.010	0.010
Disulfoton (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Disulfoton (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Disulfoton-sulfone	GC	<0.010	<0.010	<0.010	<0.010	0.010
Disulfoton-sulfoxide	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ditalimfos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Diuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
DMST	LC	<0.010	<0.010	<0.010	<0.010	0.010
DNOC	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dodemorph	LC	<0.010	<0.010	<0.010	<0.010	0.010
Dodine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Edifenphos	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Emamectin B1a	LC	<0.010	<0.010	<0.010	<0.010	0.010
Endosulfan (A+B+Sulf)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Endosulfan Sulfate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Endrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
EPN	GC	<0.010	<0.010	<0.010	<0.010	0.010
Epoxiconazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Epsilon-HCH	GC	<0.010	<0.010	<0.010	<0.010	0.010
EPTC	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ethaboxam	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ethalfuralin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ethiofencarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ethiofencarb sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ethiofencarb sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ethion	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ethiprole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ethirimol	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ethofenprox	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ethofumesate (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ethoprophos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ethoxyquin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Etoxazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Etridiazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Etrimfos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Famoxadone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenamidone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenamiphos (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenamiphos (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenamiphos sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenamiphos sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenarimol	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenazaquin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenchlorphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenchlorphos (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenchlorphos Oxon	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenhexamid	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Fenitrothion	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenobucarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenoxycarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenpiclonil	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenpropathrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenpropidin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenpropimorph	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenpyrazamine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenpyroximate	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenson	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fensulfothion	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fensulfothion Oxon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fensulfothion Oxon Sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fensulfothion Sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenthion (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenthion (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenthion Oxon	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fenthion Oxon Sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenthion Oxon Sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenthion-sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenthion-sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fentin (SP/SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fenvalerate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fipronil (SP)	LC	<0.012	<0.012	<0.012	<0.012	0.012
Fipronil (Sum)	LC	<0.012	<0.012	<0.012	<0.012	0.012
Fipronil Sulfide	LC	<0.012	<0.012	<0.012	<0.012	0.012
Fipronil Sulfone	LC	<0.012	<0.012	<0.012	<0.012	0.012
Flamprop	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flazasulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flonicamid (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flonicamid (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Florasulam	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluazifop Methyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluazifop-P (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Fluazifop-P-butyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluazinam	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flubendiamide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flucythrinate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fludioxonil	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flufenacet	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flufenacet (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flufenacet ESA	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flufenacet OA	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flufenoxuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flumetralin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Flumioxazin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluometuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluopicolide	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fluopyram	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fluotrimazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Fluoxastrobin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flupyradifurone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluquinconazol	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluroxypyr (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluroxypyr-meptyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flurtamone	GC	<0.010	<0.010	<0.010	<0.010	0.010
Flusilazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flutolanil	LC	<0.010	<0.010	<0.010	<0.010	0.010
Flutriafol	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluxapyroxad	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fluvalinate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Folpet	GC	<0.010	<0.010	<0.010	<0.010	0.010
Folpet (Sum)	GC	<0.150	<0.150	<0.150	<0.150	0.150
Fonofos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Foramsulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Forchlorfenuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Formetanate (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Formothion	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fosthiazate	LC	<0.010	<0.010	<0.010	<0.010	0.010
Fuberidazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Furalaxyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Halosulfuron-methyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Haloxypyr	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Haloxypop (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Haloxypop-2-ethoxyethyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Haloxypop-methyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Haloxypop-R (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Heptachlor (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Heptachlor (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Heptachlor Epoxide A	GC	<0.010	<0.010	<0.010	<0.010	0.010
Heptachlor Epoxide B	GC	<0.010	<0.010	<0.010	<0.010	0.010
Heptenophos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Hexachlorobenzene	GC	<0.010	<0.010	<0.010	<0.010	0.010
Hexachlorobutadiene	GC	<0.010	<0.010	<0.010	<0.010	0.010
Hexaconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Hexaflumuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Hexazinone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Hexythiazox	LC	<0.010	<0.010	<0.010	<0.010	0.010
Imazalil	LC	<0.010	<0.010	<0.010	<0.010	0.010
Imazapic (Added by Request)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Imazapyr (added by request)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Imidacloprid (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Indaziflam	LC	<0.010	<0.010	<0.010	<0.010	0.010
Indoxacarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Iodofenphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Iodosulfuron-methyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ioxynil (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Iprobenfos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Iprodione	GC	<0.010	<0.010	<0.010	<0.010	0.010
Iprovalicarb	GC	<0.010	<0.010	<0.010	<0.010	0.010
Isazofos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Isocarbophos	LC			<0.010	<0.010	0.010
Isofenphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Isophenfos-methyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Isoprocab	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Isoprocaphos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Isoprothiolane	LC	<0.010	<0.010	<0.010	<0.010	0.010
Isoproturon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Isopyrazam	LC	<0.010	<0.010	<0.010	<0.010	0.010
Isoxaben	LC	<0.010	<0.010	<0.010	<0.010	0.010
Isoxathion	LC	<0.010	<0.010	<0.010	<0.010	0.010
Isoxaben	LC	<0.010	<0.010	<0.010	<0.010	0.010
Ivermectin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Kresoxim-methyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Lambda-Cyhalothrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Lenacile	LC	<0.010	<0.010	<0.010	<0.010	0.010
Lindane	GC	<0.010	<0.010	<0.010	<0.010	0.010
Linuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Lufenuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Malaoxon	GC	<0.010	<0.010	<0.010	<0.010	0.010
Malathion (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Malathion (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Mandipropamid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Matrine	LC	<0.010	<0.010	<0.010	<0.010	0.010
MCPA	LC	<0.010	<0.010	<0.010	<0.010	0.010
Mecarbam	LC	<0.010	<0.010	<0.010	<0.010	0.010
Mefenpyr Diethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Mepanipyrim	LC	<0.010	<0.010	<0.010	<0.010	0.010
Mepronil	GC	<0.010	<0.010	<0.010	<0.010	0.010
Meptyldinocap	LC	<0.010	<0.010	<0.010	<0.010	0.010
Mesosulfuron-methyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Mesotrione	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metaflumizone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metalaxyl-M	GC	<0.010	<0.010	<0.010	<0.010	0.010
Metamitron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metazachlor (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metconazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methabenzthiazuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methacrifos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Methamidophos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methidathion	GC	<0.010	<0.010	<0.010	<0.010	0.010
Methiocarb (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Methiocarb (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methiocarb sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methiocarb sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methomyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methomyl (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methoprotryne	LC	<0.010	<0.010	<0.010	<0.010	0.010
Methoxychlor	GC	<0.010	<0.010	<0.010	<0.010	0.010
Methoxyfenozide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metobromuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metolachlor and S-Metolachlor	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metolcarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metoxuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metrafenone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Metribuzin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Metsulphuron-methyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Mevinphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Milbemectin (SQ Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Milbemycin A3 (SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Milbemycin A4 (SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Mirex	GC	<0.010	<0.010	<0.010	<0.010	0.010
Molinate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Monocrotophos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Monolinuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Monuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Myclobutanil	GC	<0.010	<0.010	<0.010	<0.010	0.010
Naled	GC	<0.010	<0.010	<0.010	<0.010	0.010
Naled Sum	GC	<0.010	<0.010	<0.010	<0.010	0.010
Napropamide	GC	<0.010	<0.010	<0.010	<0.010	0.010
Neburon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Nicosulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Nitenpyram	LC	<0.010	<0.010	<0.010	<0.010	0.010
Nitrofen	GC	<0.010	<0.010	<0.010	<0.010	0.010
Nitrothal Isopropyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Norflurazon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Novaluron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Nuarimol	GC	<0.010	<0.010	<0.010	<0.010	0.010

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O, p-DDD	GC	<0.010	<0.010	<0.010	<0.010	0.010
O,p-DDE	GC	<0.010	<0.010	<0.010	<0.010	0.010
Ofurace	GC	<0.010	<0.010	<0.010	<0.010	0.010
Omethoate (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oryzalin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oxadiargyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oxadiazon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oxadixyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Oxamyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oxasulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oxathiapiprolin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oxycarboxin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Oxychlordan	GC	<0.010	<0.010	<0.010	<0.010	0.010
Oxyfluorfen	GC	<0.010	<0.010	<0.010	<0.010	0.010
P,p- DDT	GC	<0.010	<0.010	<0.010	<0.010	0.010
P,p-DDE	GC	<0.010	<0.010	<0.010	<0.010	0.010
Paclobutrazol	LC	<0.010	<0.010	<0.010	<0.010	0.010
Paraoxon-ethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Paraoxon-methyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Parathion-ethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Parathion-ethyl (sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Parathion-methyl (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Parathion-methyl (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Penconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pencycuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pendimethalin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pentachloroaniline	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pentachloroanisole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pentachlorobenzene	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pentachlorobenzonitrile	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pentachlorophenol	GC	<0.010	<0.010	<0.010	<0.010	0.010
Penthiopyrad	LC	<0.010	<0.010	<0.010	<0.010	0.010
Permethrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Phenmedipham	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phenthoate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Phorate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Phorate (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Phorate Oxon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phorate Oxon Sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phorate Oxon Sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phorate sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phorate sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phosalone	GC	<0.010	<0.010	<0.010	<0.010	0.010
Phosmet (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phosmet (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phosmet-oxon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phosphamidon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phoxim	LC	<0.010	<0.010	<0.010	<0.010	0.010
Phthalimide (Folpet)	GC	<0.150	<0.150	<0.150	<0.150	0.150
Picolinafen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Picoxystrobin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pinoxaden	LC	<0.010	<0.010	<0.010	<0.010	0.010
Piperonyl butoxide	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pirimicarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pirimicarb Desmethyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pirimicarb Desmethyl Formamide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pirimiphos-ethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pirimiphos-methyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Prochloraz (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Prochloraz (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Procymidone	GC	<0.010	<0.010	<0.010	<0.010	0.010
Profenofos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Profluralin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Promecarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Prometryn	GC	<0.010	<0.010	<0.010	<0.010	0.010
Propachlor	LC	<0.010	<0.010	<0.010	<0.010	0.010
Propamocarb (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Propanil	LC	<0.010	<0.010	<0.010	<0.010	0.010
Propaquizafop	LC	<0.010	<0.010	<0.010	<0.010	0.010
Propargite	LC	<0.010	<0.010	<0.010	<0.010	0.010
Propazine	GC	<0.010	<0.010	<0.010	<0.010	0.010

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Propetamphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Propham	LC	<0.010	<0.010	<0.010	<0.010	0.010
Propiconazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Propoxur	LC	<0.025	<0.025	<0.025	<0.010	0.010
Propyzamide	GC	<0.010	<0.010	<0.010	<0.010	0.010
Proquinazid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Prosulfocarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Prosulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Prothioconazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Prothiofos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pydiflumetofen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pymetrozine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyracarbolid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyraclostrobin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyraflufen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyraflufen-ethyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyraflufen-ethyl (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyrazophos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pyridaben	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pyridalyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyridaphenthion	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pyridate (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Pyrifeno	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pyrimethanil	GC	<0.010	<0.010	<0.010	<0.010	0.010
Pyriproxyfen	GC	<0.010	<0.010	<0.010	<0.010	0.010
Quinalphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Quinclorac	LC	<0.010	<0.010	<0.010	<0.010	0.010
Quinoxifen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Quintozene	GC	<0.010	<0.010	<0.010	<0.010	0.010
Quintozene (Sum)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Quizalofop-ethyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Rimsulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Rotenone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Saflufenacil (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Sebuthylazine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Sethoxydim	LC	<0.010	<0.010	<0.010	<0.010	0.010
Silthiofam	GC	<0.010	<0.010	<0.010	<0.010	0.010
Simazine	GC	<0.010	<0.010	<0.010	<0.010	0.010
Spinetoram	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spinosad	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Spirodiclofen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spiromesifen	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spirotetramat (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spirotetramat-keto-hydroxy	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spirotetramat-enol-glucoside	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spirotetramat-enol	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spirotetramat-mono-hydroxy	LC	<0.010	<0.010	<0.010	<0.010	0.010
Spiroxamine	LC	<0.010	<0.010	<0.010	<0.010	0.010
Sulcotrione	LC	<0.010	<0.010	<0.010	<0.010	0.010
Sulfosulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Sulfotep	LC	<0.010	<0.010	<0.010	<0.010	0.010
Sulfoxaflor	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tebuconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tebufenozide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tebufenpyrad	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tecnazene	GC	<0.010	<0.010	<0.010	<0.010	0.010
Teflubenzuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tefluthrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tepraloxydim (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Terbacil	GC	<0.010	<0.010	<0.010	<0.010	0.010
Terbufos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Terbufos (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Terbufos-sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Terbufos-sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Terbumeton	GC	<0.010	<0.010	<0.010	<0.010	0.010
Terbuthylazine	GC	<0.010	<0.010	<0.010	<0.010	0.010
Terbuthylazine Desethyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Terbutryn	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tetrachlorvinphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tetraconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tetradifon	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tetrahydrophtalimide (THPI)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tetramethrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tetrasul	GC	<0.010	<0.010	<0.010	<0.010	0.010
TFNA	LC	<0.010	<0.010	<0.010	<0.010	0.010
TFNG	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Thiabendazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiacloprid	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiamethoxam (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiamethoxam (sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thidiazuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thifensulfuron Methyl	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiobencarb	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiocyclam	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiodicarb (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiofanox	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiofanox Sulfone	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiofanox Sulfoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Thiometon	GC	<0.010	<0.010	<0.010	<0.010	0.010
Thiophanate-methyl (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tolclofos Methyl	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tolfenpyrad	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tolyfluanid (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tolyfluanid (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Trans-Chloradane	GC	<0.01	<0.01	<0.01	<0.01	0.01
Transfluthrin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Triadimefon	GC	<0.010	<0.010	<0.010	<0.010	0.010
Triadimenol	GC	<0.010	<0.010	<0.010	<0.010	0.010
Tri-Allate	GC	<0.010	<0.010	<0.010	<0.010	0.010
Triamiphos	GC	<0.010	<0.010	<0.010	<0.010	0.010
Triasulfuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Triazophos	LC	<0.010	<0.010	<0.010	<0.010	0.010
Triazoxide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Trichlorfon	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tricresyl phosphate	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tricyclazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Tridemorph	LC	<0.010	<0.010	<0.010	<0.010	0.010
Trifloxystrobin	LC	<0.010	<0.010	<0.010	<0.010	0.010
Triflumizole (SP)	LC	<0.010	<0.010	<0.010	<0.010	0.010

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Triflumizole (Sum)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Triflumizole FM 6-1	LC	<0.010	<0.010	<0.010	<0.010	0.010
Triflumuron	LC	<0.010	<0.010	<0.010	<0.010	0.010
Trifluralin	GC	<0.010	<0.010	<0.010	<0.010	0.010
Triforine (SQ)	LC	<0.010	<0.010	<0.010	<0.010	0.010
Triticonazole	LC	<0.010	<0.010	<0.010	<0.010	0.010
Uniconazole	GC	<0.010	<0.010	<0.010	<0.010	0.010
Vamidothion	LC	<0.010	<0.010	<0.010	<0.010	0.010
Vinclozolin (SP)	GC	<0.010	<0.010	<0.010	<0.010	0.010
Zoxamide	LC	<0.010	<0.010	<0.010	<0.010	0.010
Zeta-cypermethrin	GC	<0.010	<0.010	<0.010	<0.010	0.010

Supplemental Table 7. Accuracy and Precision Summary from Blank Spike and Recovery Data¹

Analyte	Reference value (mg/kg)	Measured value (mg/kg)	Recovery (%)
Ag	0.4000	0.412	103
Al	40.00	39.11	98
As	4.000	3.713	93
B	4.000	3.662	92
Ba	4.000	4.192	105
Be	4.000	3.919	98
Ca	40.00	42.09	105
Cd	0.4000	0.400	100
Co	4.000	3.970	99
Cr	4.000	4.100	103
Cu	4.000	4.116	103
Fe	40.00	39.48	99
Hg ²	0.1000	0.092	92
K	40.00	53.99	135
Li	4.000	3.702	93
Mg	40.00	39.92	100
Mn	4.000	4.153	104
Mo	0.4000	0.422	106
Na	40.00	41.50	104
Ni	4.000	3.838	96
P	400.0	385.0	96
Pb	0.4000	0.413	103
Sb	0.4000	0.411	103
Se	4.000	4.151	104
Sn	0.4000	0.414	103
Sr	4.000	4.104	103
Tl ³	0.4000	0.412	103
U	0.4000	0.362	90
V	4.000	4.121	103
Zn	4.000	4.003	100

¹ Acceptance criteria for percent limits were 75-125%. Because acceptance criteria for K was above criteria, K recovery was assessed with 4 method blanks and was found to be within method criteria (83% recovery).

² Result is ≤MDL

³ Detected by the instrument, the result is >MDL but ≤MRL. Result reported considered an estimate.

Supplemental Table 8. Method Reporting Limits for Juniper Ash Samples (n=3)

Source of Ash	Analyte	Method Reporting Limit (mg/kg)
Rocky Mountain Juniper	Ag	0.002
Rocky Mountain Juniper	Al	1.91
Rocky Mountain Juniper	As	0.008
Rocky Mountain Juniper	B	239
Rocky Mountain Juniper	Ba	3.82
Rocky Mountain Juniper	Be	0.017
Rocky Mountain Juniper	Ca	3820
Rocky Mountain Juniper	Cd	0.007
Rocky Mountain Juniper	Co	0.011
Rocky Mountain Juniper	Cr	0.143
Rocky Mountain Juniper	Cu	38.2
Rocky Mountain Juniper	Fe	153
Rocky Mountain Juniper	Hg ⁴	0.009
Rocky Mountain Juniper	K	120
Rocky Mountain Juniper	Li	0.016
Rocky Mountain Juniper	Mg	382
Rocky Mountain Juniper	Mn	3.82
Rocky Mountain Juniper	Mo	0.014
Rocky Mountain Juniper	Na	2290
Rocky Mountain Juniper	Ni	0.344
Rocky Mountain Juniper	P	95.5
Rocky Mountain Juniper	Pb	0.007
Rocky Mountain Juniper	Sb	0.005
Rocky Mountain Juniper	Se	0.010
Rocky Mountain Juniper	Sn	0.006
Rocky Mountain Juniper	Sr	34.4
Rocky Mountain Juniper	Tl ⁵	0.024
Rocky Mountain Juniper	U	0.007
Rocky Mountain Juniper	V	0.008
Rocky Mountain Juniper	Zn	153
Eastern Red Cedar Ash	Ag	0.002
Eastern Red Cedar Ash	Al	1.99
Eastern Red Cedar Ash	As	0.008
Eastern Red Cedar Ash	B	248
Eastern Red Cedar Ash	Ba	3.97
Eastern Red Cedar Ash	Be ⁶	0.018
Eastern Red Cedar Ash	Ca	3970

⁴ Result is ≤MDL

⁵ Detected by the instrument, the result is >MDL but ≤MRL. Result reported considered an estimate.

⁶ Detected by the instrument, the result is >MDL but ≤MRL. Result reported considered an estimate.

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Eastern Red Cedar Ash	Cd	0.007
Eastern Red Cedar Ash	Co	0.012
Eastern Red Cedar Ash	Cr	0.149
Eastern Red Cedar Ash	Cu	39.7
Eastern Red Cedar Ash	Fe	159
Eastern Red Cedar Ash	Hg ⁷	0.009
Eastern Red Cedar Ash	K	125
Eastern Red Cedar Ash	Li	0.017
Eastern Red Cedar Ash	Mg	397
Eastern Red Cedar Ash	Mn	3.97
Eastern Red Cedar Ash	Mo	0.015
Eastern Red Cedar Ash	Na	11.9
Eastern Red Cedar Ash	Ni	0.358
Eastern Red Cedar Ash	P	99.3
Eastern Red Cedar Ash	Pb	0.007
Eastern Red Cedar Ash	Sb	0.005
Eastern Red Cedar Ash	Se	0.010
Eastern Red Cedar Ash	Sn	0.006
Eastern Red Cedar Ash	Sr	35.8
Eastern Red Cedar Ash	Tl ⁸	0.025
Eastern Red Cedar Ash	U	0.007
Eastern Red Cedar Ash	V	0.008
Eastern Red Cedar Ash	Zn	159
Vendor-purchased Ash	Ag	0.002
Vendor-purchased Ash	Al	386
Vendor-purchased Ash	As	0.008
Vendor-purchased Ash	B	24.1
Vendor-purchased Ash	Ba	3.86
Vendor-purchased Ash	Be	0.017
Vendor-purchased Ash	Ca	3860
Vendor-purchased Ash	Cd	0.007
Vendor-purchased Ash	Co	0.012
Vendor-purchased Ash	Cr	0.145
Vendor-purchased Ash	Cu	38.6
Vendor-purchased Ash	Fe	154
Vendor-purchased Ash	Hg ⁹	0.009
Vendor-purchased Ash	K	122
Vendor-purchased Ash	Li	0.016
Vendor-purchased Ash	Mg	386
Vendor-purchased Ash	Mn	3.86
Vendor-purchased Ash	Mo	2.89
Vendor-purchased Ash	Na	11.6

⁷ Result is ≤MDL

⁸ Detected by the instrument, the result is >MDL but ≤MRL. Result reported considered an estimate.

⁹ Detected by the instrument, the result is >MDL but ≤MRL. Result reported considered an estimate.

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Vendor-purchased Ash	Ni	0.347
Vendor-purchased Ash	P	96.5
Vendor-purchased Ash	Pb	1.39
Vendor-purchased Ash	Sb	0.005
Vendor-purchased Ash	Se	0.010
Vendor-purchased Ash	Sn	0.006
Vendor-purchased Ash	Sr	34.7
Vendor-purchased Ash	Tl	0.024
Vendor-purchased Ash	U	0.007
Vendor-purchased Ash	V	0.008
Vendor-purchased Ash	Zn	154