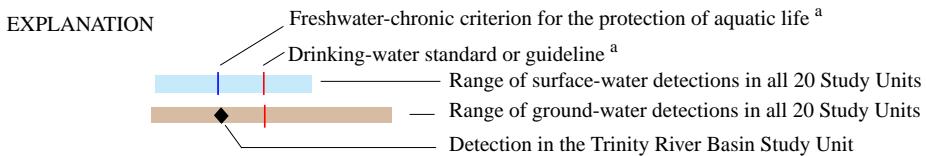


SUMMARY OF COMPOUND DETECTIONS AND CONCENTRATIONS

The following tables summarize data collected for NAWQA studies from 1992–95 by showing results for the Trinity River Basin Study Unit compared to the NAWQA national range for each compound detected. The data were collected at a wide variety of places and times. In order to represent the wide concentration ranges observed among Study Units, logarithmic scales are used to emphasize the general magnitude of concentrations (such as 10, 100, or 1,000), rather than the precise number. The complete dataset used to construct these tables is available upon request.

Concentrations of herbicides, insecticides, volatile organic compounds, and nutrients detected in ground and surface waters of the Trinity River Basin Study Unit

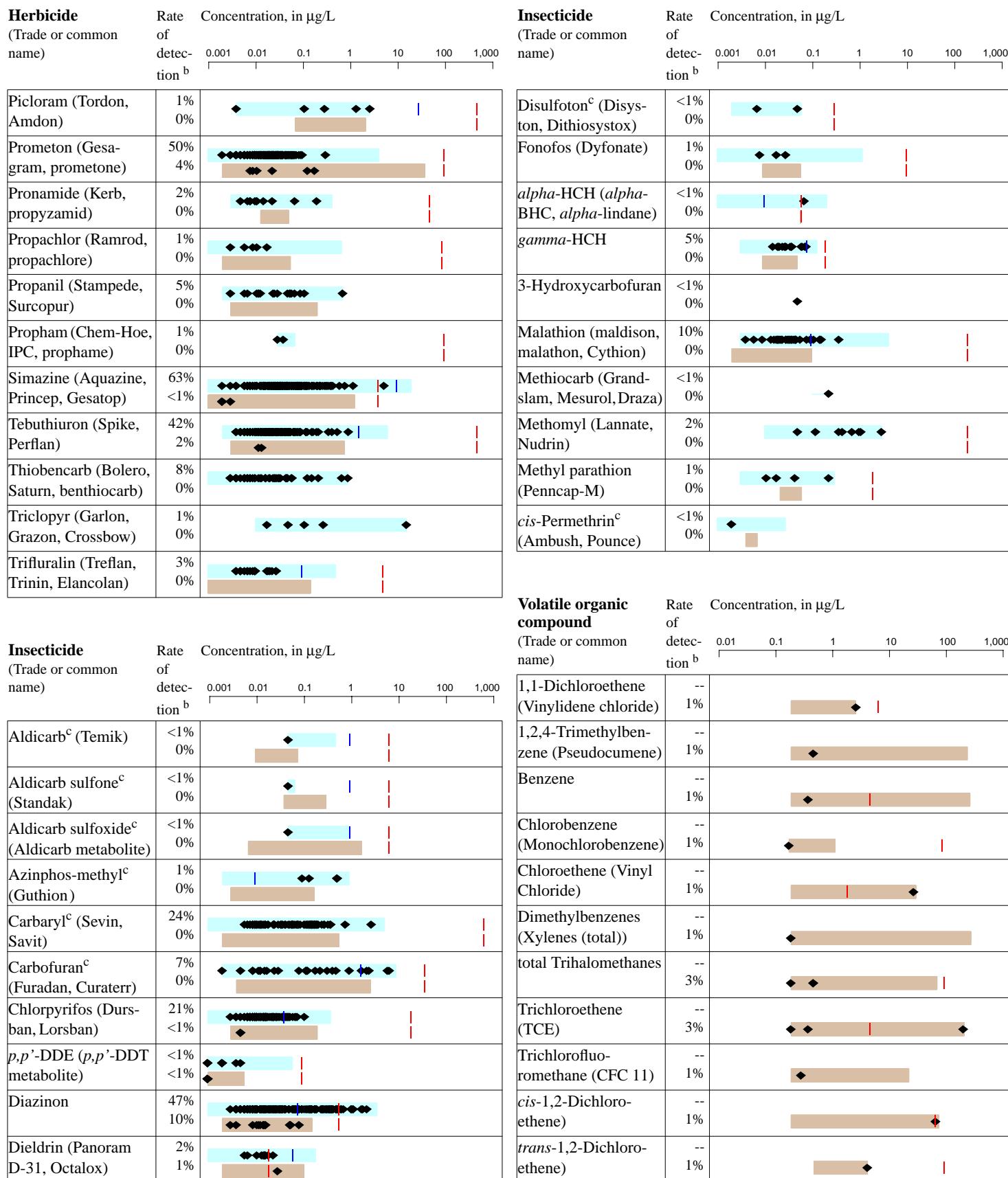
[$\mu\text{g/L}$, micrograms per liter; %, percent; <, less than; --, not measured; mg/L, milligrams per liter; trade names might vary]



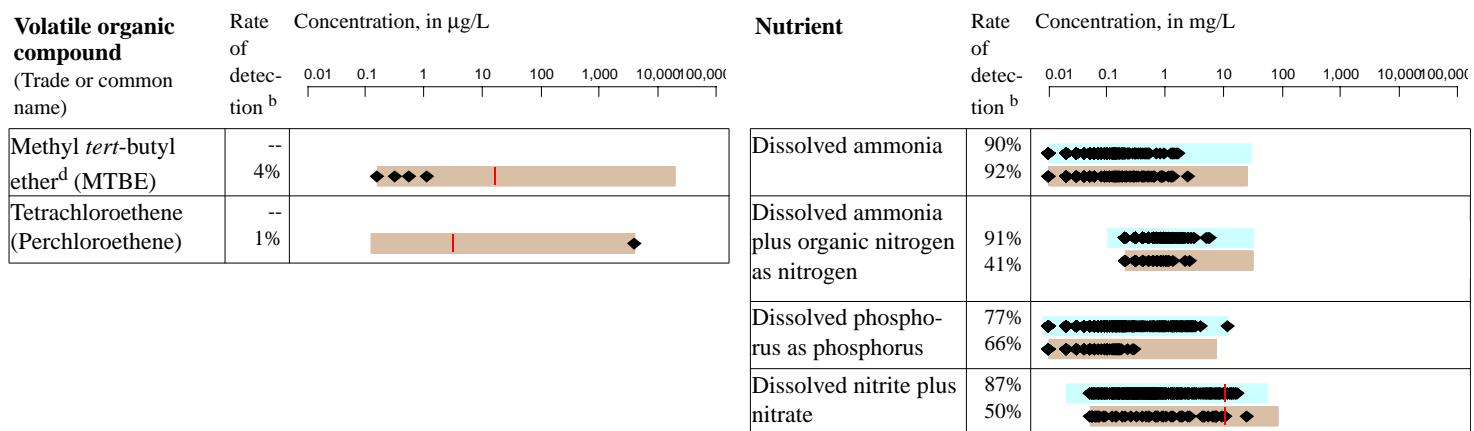
Herbicide (Trade or common name)	Rate of detec- tion ^b	Concentration, in $\mu\text{g/L}$
Acetochlor	7% 0%	
Acifluorfen (Blazer, Tackle 2S)	1% 0%	
Alachlor (Lasso)	15% 0%	
2,6-Diethylaniline (Alachlor metabolite)	<1% 0%	
Atrazine (AAtrex, Gesaprim)	88% 3%	
Deethylatrazine ^c (Atrazine metabolite)	71% 4%	
Bentazon (Basagran, bentazone)	4% 1%	
Bromacil (Hyvar X, Urox B, Bromax)	<1% 1%	
Bromoxynil (Buctril, Brominal, Torch)	<1% 0%	
Butylate (Sutan, Genate Plus, butilate)	<1% 0%	
Chloramben (Amiben, Vegin)	<1% 0%	
Clopyralid (Stinger, Lontrel, Dowco 290)	1% 0%	
Cyanazine (Bladex, Fortrol)	5% 0%	
2,4-D (2,4-PA)	17% 2%	
DCPA (Dacthal, chlorthal-dimethyl)	<1% <1%	
Dacthal, mono-acid (Dacthal metabolite)	<1% 0%	

Herbicide (Trade or common name)	Rate of detec- tion ^b	Concentration, in $\mu\text{g/L}$
Dicamba (Banvel, Mediben, dianat)	1% 0%	
Dichlorprop (2,4-DP, Seritox 50, Kildip)	3% 0%	
Dinoseb (DNBP, DN 289, Premerge, Aretit)	1% 0%	
Diuron (Karmex, Direx, DCMU)	7% 0%	
EPTC (Eptam)	1% 0%	
Fluometuron (Flo- Met, Cotoran)	17% 0%	
Linuron (Lorox, Linex, Sarclex)	1% 0%	
MCPA (Agritox, Agroxone)	3% 0%	
MCPB (Can-Trol, Thistrol, Tropotox)	<1% 0%	
Metolachlor (Dual, Pennant)	69% 0%	
Metribuzin (Lexone, Sencor)	10% 2%	
Molinate (Ordram)	18% 0%	
Napropamide (Devrinol)	<1% 0%	
Neburon (Neburex, Noruben, Kloben)	<1% 0%	
Oryzalin (Surflan, Dirimal, Ryzelan)	3% 0%	
Pendimethalin (Prowl, Stomp)	10% 0%	

SUMMARY OF COMPOUND DETECTIONS AND CONCENTRATIONS



SUMMARY OF COMPOUND DETECTIONS AND CONCENTRATIONS



Herbicides, insecticides, volatile organic compounds, and nutrients not detected in ground and surface waters of the Trinity River Basin Study Unit.

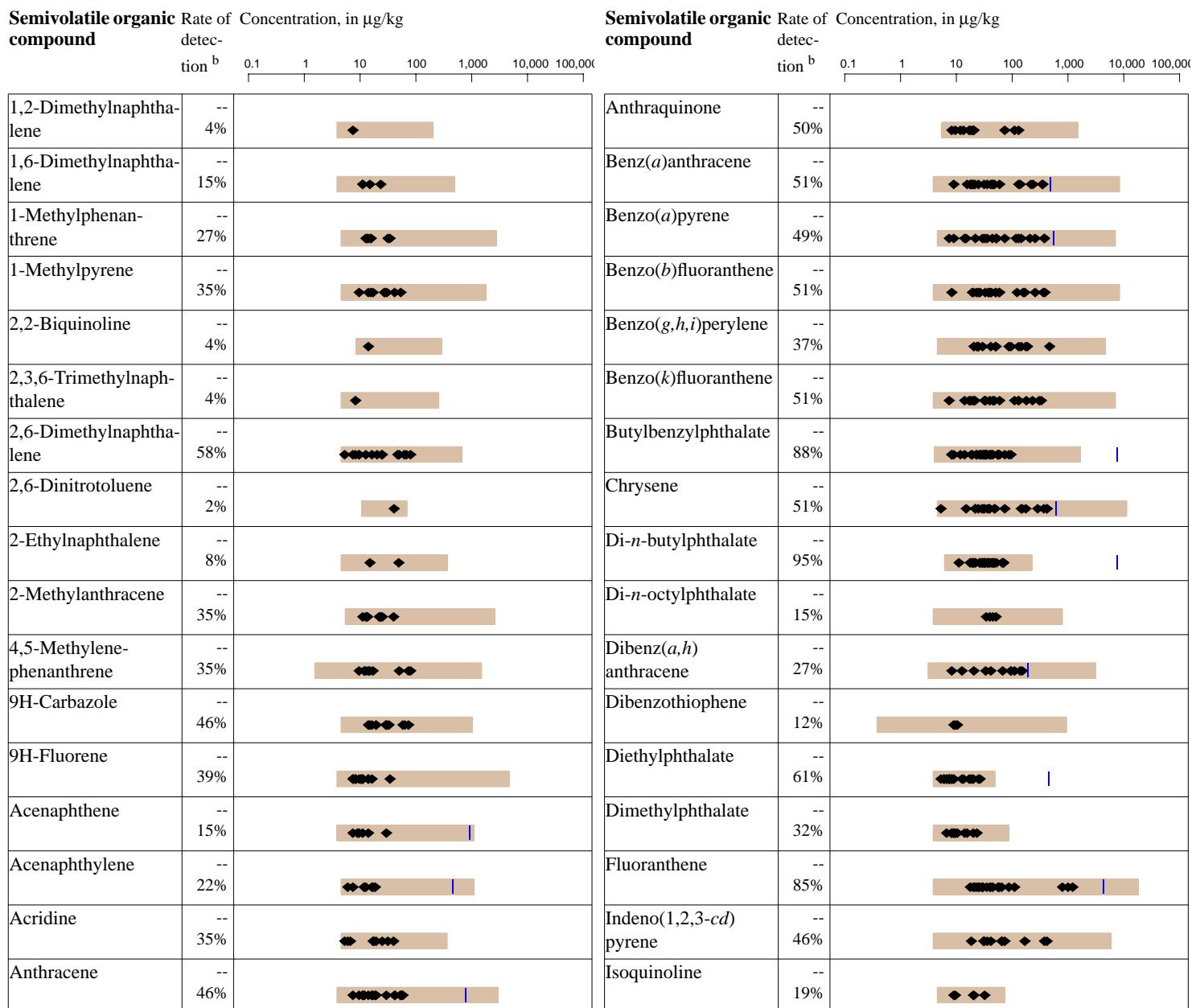
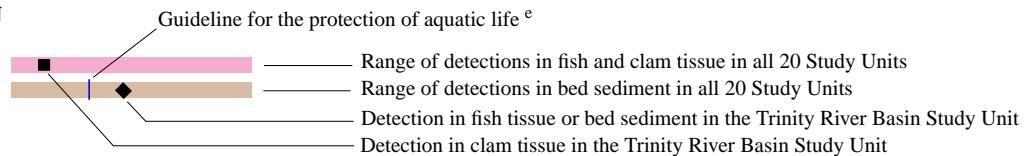
Herbicides	Propargite (Comite, Omite, Ornamite)	1,2-Dibromoethane (EDB, Ethylene dibromide)	Chloroethane (Ethyl chloride)	<i>tert</i> -Butylbenzene
2,4,5-T				<i>trans</i> -1,3-Dichloropropene
2,4,5-TP (Silvex, Feno-prop)	Propoxur (Baygon, Blatanex, Unden, Protopox)	1,2-Dichlorobenzene (<i>o</i> -Dichlorobenzene, 1,2-DCB)	Chloromethane (Methyl chloride)	((E)-1,3-Dichloropropene)
2,4-DB (Butyrac, Butoxone, Embutox Plus, Embutone)	Terbufos (Contraven, Counter, Pilarfox)	1,2-Dichloroethane (Ethylene dichloride)	Dibromomethane (Methylene dibromide)	
Benfluralin (Balan, Benefin, Bonalan, Benefex)		1,2-Dichloropropane (Propylene dichloride)	Dichlorodifluoromethane (Freon 12, CFC 12)	
Ethalfluralin (Sonalan, Curbit)	1,1,1,2-Tetrachloroethane (1,1,1,2-TeCA)	1,3,5-Trimethylbenzene (Mesitylene)	Dichloromethane (Methylene chloride)	
Fenuron (Fenulon, Fenidim)	1,1,1-Trichloroethane (Methylchloroform)	1,3-Dichlorobenzene (<i>m</i> -Dichlorobenzene)	Ethenylbenzene (Styrene)	
Norflurazon (Evital, Predict, Solicam, Zorial)	1,1,2,2-Tetrachloroethane	1,3-Dichloropropane (Trimethylene dichloride)	Ethylbenzene (Phenylethane)	
Pebulate (Tillam, PEBC)	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113, CFC 113)	1,4-Dichlorobenzene (<i>p</i> -Dichlorobenzene, 1,4-DCB)	Hexachlorobutadiene	
Terbacil (Sinbar)	1,1,2-Trichloroethane (Vinyl trichloride)	1-Chloro-2-methylbenzene (<i>o</i> -Chlorotoluene)	Isopropylbenzene (Cumene)	
Triallate (Far-Go, Avadex BW, Tri-allate)	1,1-Dichloroethane (Ethyldiene dichloride)	1-Chloro-4-methylbenzene (<i>p</i> -Chlorotoluene)	Methylbenzene (Toluene)	
Insecticides	1,1-Dichloropropene	2,2-Dichloropropane	Naphthalene	
Ethoprop (Mocap, Ethoprophos)	1,2,3-Trichlorobenzene (1,2,3-TCB)	Bromobenzene (Phenyl bromide)	Tetrachloromethane (Carbon tetrachloride)	
Oxamyl (Vydate L, Pratt)	1,2,3-Trichloropropane (Allyl trichloride)	Bromochloromethane (Methylene chlorobromide)	<i>cis</i> -1,3-Dichloropropene ((Z)-1,3-Dichloropropene)	
Parathion (Roethyl-P, Alkron, Panthion, Phoskil)	1,2,4-Trichlorobenzene	Bromomethane (Methyl bromide)	<i>n</i> -Butylbenzene (1-Phenylbutane)	
Phorate (Thimet, Granutox, Geomet, Rampart)	1,2-Dibromo-3-chloropropane (DBCP, Nemagon)		<i>n</i> -Propylbenzene (Isocumene)	
			<i>p</i> -Isopropyltoluene (<i>p</i> -Cymene)	
			<i>sec</i> -Butylbenzene	

SUMMARY OF COMPOUND DETECTIONS AND CONCENTRATIONS

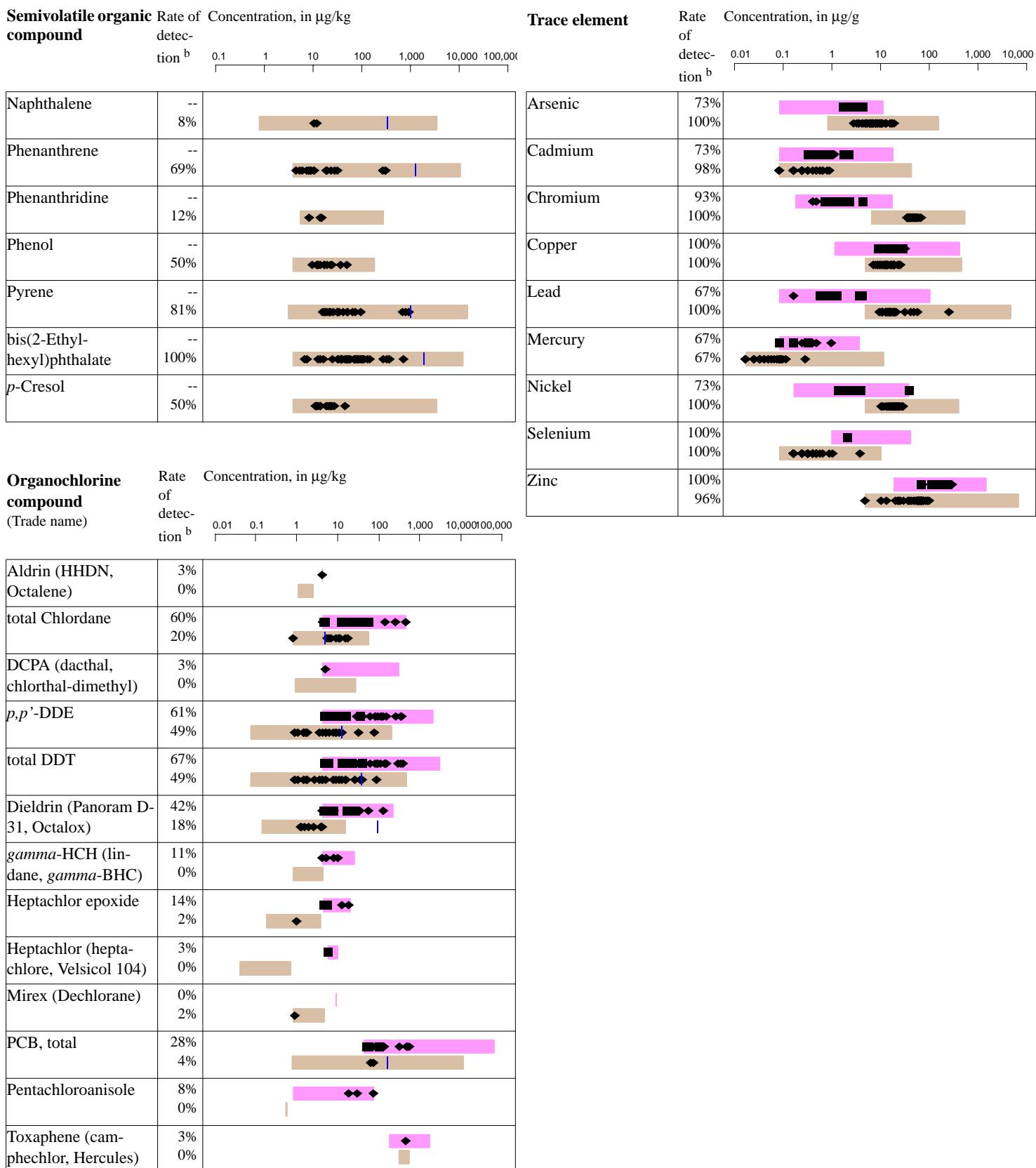
Concentrations of semivolatile organic compounds, organochlorine compounds, and trace elements detected in fish and clam tissue and bed sediment of the Trinity River Basin Study Unit

[$\mu\text{g}/\text{kg}$, micrograms per kilogram; --, not measured; %, percent; $\mu\text{g}/\text{g}$, micrograms per gram; trade names may vary]

EXPLANATION



SUMMARY OF COMPOUND DETECTIONS AND CONCENTRATIONS



SUMMARY OF COMPOUND DETECTIONS AND CONCENTRATIONS

Semivolatile organic compounds, organochlorine compounds, and trace elements not detected in fish and clam tissue and bed sediment of the Trinity River Basin Study Unit.

Semivolatile organic compounds

1,2,4-Trichlorobenzene
1,2-Dichlorobenzene
(*o*-Dichlorobenzene,
1,2-DCB)
1,3-Dichlorobenzene
(*m*-Dichlorobenzene)
1,4-Dichlorobenzene
(*p*-Dichlorobenzene,
1,4-DCB)
1-Methyl-9H-fluorene
2,4-Dinitrotoluene
2-Chloronaphthalene
2-Chlorophenol
3,5-Dimethylphenol
4-Bromophenyl-phenyl-ether

4-Chloro-3-methylphenol
4-Chlorophenyl-phenyl-ether
Azobenzene
Benzo(*c*)cinnoline
C8-Alkylphenol
Isophorone
N-Nitrosodi-*n*-propylamine
N-Nitrosodiphenylamine
Nitrobenzene
Pentachloronitrobenzene
Quinoline
bis(2-Chloroethoxy) methane

Organochlorine compounds

Chloroneb (chloronebe,
Demosan, Soil Fungicide
1823)
Endosulfan I (*alpha*-
Endosulfan, Thiodan,
Cyclodan, Beosit, Malix,
Thimul, Thifor)
Endrin (Endrine)
Hexachlorobenzene (HCB)
Isodrin (Isodrine, Com-
pound 711)
alpha-HCH (*alpha*-BHC,
alpha-lindane, *alpha*-
hexachlorocyclohexane,
alpha-benzene hexachloride)

beta-HCH (*beta*-BHC,
beta-hexachlorocyclohex-
ane, *alpha*-benzene
hexachloride)

cis-Permethrin (Ambush,
Astro, Pounce, Pramex,
Pertox, Ambushfog, Kafil,
Perthrine, Picket, Picket G,
Dragnet, Talcord, Outflank,
Stockade, Eksmin, Coopex,
Peregin, Stomoxin, Sto-
moxin P, Qamlin, Corsair,
Tornade)

trans-Permethrin (Ambush,
Astro, Pounce, Pramex,
Pertox, Ambushfog, Kafil,
Perthrine, Picket, Picket G,
Dragnet, Talcord, Outflank,
Stockade, Eksmin, Coopex,
Peregin, Stomoxin, Sto-
moxin P, Qamlin, Corsair,
Tornade)

Trace elements

No nondetects

^a Selected water-quality standards and guidelines (Gilliom and others, in press).

^b Rates of detection are based on the number of analyses and detections in the Study Unit, not on national data. Rates of detection for herbicides and insecticides were computed by counting only detections equal to or greater than 0.01 µg/L to facilitate equal comparisons among compounds, which had widely varying detection limits. For herbicides and insecticides, a detection rate of “<1%” means that all detections are less than 0.01 µg/L, or the detection rate rounds to less than 1%. For other compound groups, all detections were counted and minimum detection limits for most compounds were similar to the lower end of the national ranges shown. Method detection limits for all compounds in these tables are summarized in (Gilliom and others, in press).

^c Detections of these compounds are reliable, but concentrations are determined with greater uncertainty than for the other compounds and are reported as estimated values (Zaugg and others, 1995).

^d The guideline for methyl *tert*-butyl ether is between 20 and 40 µg/L; if the tentative cancer classification C is accepted, the lifetime health advisory will be 20 µg/L (Gilliom and others, in press).

^e Selected sediment-quality guidelines (Gilliom and others, in press).