

California Integrated Waste Management Board

Appendix I

Weight Conversion Sources and Table

Appendix I - Conversion Factor Sources

The following studies have been identified as potential sources of conversion factors. The weights provided in the referenced studies may not be representative of every jurisdiction within the state and should be used only if they accurately reflect the weight of items and materials submitted in the jurisdiction's diversion study. The new base-year study proposal should include a discussion of the applicability of any conversion factors used and the source for the conversion factors used.

General Studies

Business Waste Prevention Quantification Methodologies—Business Users Guide.

Washington, D.C and Los Angeles: U.S. Environmental Protection Agency, Municipal and Industrial Solid Waste, and University of California at Los Angeles, Extension Recycling and Municipal Solid Waste Management Program, 1996. Grant Number CX 824548-01-0. This guide includes weight of paper office products, office furniture, and computers. Copies of this study are available from the CIWMB Office of Local Assistance.

Measuring Recycling: A Guide For State and Local Governments. Washington, D.C.: U. S. Environmental Protection Agency, 1997: Phone 1-800-424-9346; <http://www.epa.gov>. Publication number EPA530-R-97-011. This guide includes weights of items including glass, metals, paper, plastics, textiles, tires, organics, and municipal solid waste. For material types listed in both the U.S. EPA and Cal Recovery/Tellus studies, the more current factors in the U.S. EPA study should be used.

Conversion Factors for Individual Material Types Submitted to California Integrated Waste Management Board. Cal Recovery Inc., Tellus Institute, and ACT...now, December 1991. Copies of this study are available from the CIWMB Office of Local Assistance. This study includes weights of paper, plastics, glass, metals, organics, tires and rubber products, crop residues, textiles, and inerts. For material types listed in both the U.S. EPA and Cal Recovery/Tellus studies, the more current factors in the U.S. EPA study should be used.

FEECO International Handbook, 8th Printing (Section 22-45 to 22-510). Green Bay, Wisconsin: FEECO International, Inc. Phone (920) 468-1000; FAX (920) 469-5110. This handbook includes weights of items including construction and demolition materials, plastics, paper, organics, textiles, and metals.

Weight Conversion Table

The weights in the following tables are from grant-funded, contractually funded, or privately funded studies.

Material/Item	Size/Amount	Study	LB
Construction and Demolition			
Please refer to Appendix I, "What Counts Toward Diversion" to determine if these items qualify			
Ashes, dry	1 cubic foot	FEECO	35–40
Ashes, wet	1 cubic foot	FEECO	45–50
Asphalt, crushed	1 cubic foot	FEECO	45
Asphalt/paving, crushed	1 cubic yard	Tellus	1,380
Asphalt/shingles comp, loose	1 cubic yard	Tellus	418.5
Asphalt/tar roofing	1 cubic yard	Tellus	2,919
Bone meal, raw	1 cubic foot	FEECO	54.9
Brick, common hard	1 cubic foot	FEECO	112–125
Brick, whole	1 cubic yard	Tellus	3,024
Cement, bulk	1 cubic foot	FEECO	100
Cement, mortar	1 cubic foot	FEECO	145
Ceramic tile, loose 6" x 6"	1 cubic yard	Tellus	1,214
Chalk, lumpy	1 cubic foot	FEECO	75–85
Charcoal	1 cubic foot	FEECO	15–30
Clay, kaolin	1 cubic foot	FEECO	22–33
Clay, potter's dry	1 cubic foot	FEECO	119
Concrete, cinder	1 cubic foot	FEECO	90–110
Concrete, scrap, loose	1 cubic yard	Tellus	1,855
Cork, dry	1 cubic foot	FEECO	15
Earth, common, dry	1 cubic foot	FEECO	70–80
Earth, loose	1 cubic foot	FEECO	76
Earth, moist, loose	1 cubic foot	FEECO	78
Earth, mud	1 cubic foot	FEECO	104–112
Earth, wet, containing clay	1 cubic foot	FEECO	100–110
Fiberglass insulation, loose	1 cubic yard	Tellus	17
Fines, loose	1 cubic yard	Tellus	2,700
Glass, broken	1 cubic foot	FEECO	80–100
Glass, plate	1 cubic foot	FEECO	172
Glass, window	1 cubic foot	FEECO	157

Material/Item	Size/Amount	Study	LB
Granite, broken or crushed	1 cubic foot	FEECO	95–100
Granite, solid	1 cubic foot	FEECO	130–166
Gravel, dry	1 cubic foot	FEECO	100
Gravel, loose	1 cubic yard	Tellus	2,565
Gravel, wet	1 cubic foot	FEECO	100–120
Gypsum (sheetrock), pulverized	1 cubic foot	FEECO	60–80
Gypsum (sheetrock), solid	1 cubic foot	FEECO	142
Lime, hydrated	1 cubic foot	FEECO	30
Limestone, crushed	1 cubic foot	FEECO	85–90
Limestone, finely ground	1 cubic foot	FEECO	99.8
Limestone, solid	1 cubic foot	FEECO	165
Mortar, hardened	1 cubic foot	FEECO	100
Mortar, wet	1 cubic foot	FEECO	150
Mud, dry close	1 cubic foot	FEECO	110
Mud, wet fluid	1 cubic foot	FEECO	120
Pebbles	1 cubic foot	FEECO	90–100
Pumice, ground	1 cubic foot	FEECO	40–45
Pumice, stone	1 cubic foot	FEECO	39
Quartz, sand	1 cubic foot	FEECO	70–80
Quartz, solid	1 cubic foot	FEECO	165
Rock, loose	1 cubic yard	Tellus	2,570
Rock, soft	1 cubic foot	FEECO	100–110
Sand, dry	1 cubic foot	FEECO	90–110
Sand, loose	1 cubic yard	Tellus	2,441
Sand, moist	1 cubic foot	FEECO	100–110
Sand, wet	1 cubic foot	FEECO	110–130
Sewage, sludge (see Appendix I)	1 cubic foot	FEECO	40–50
Sewage, dried sludge (see Appendix I)	1 cubic foot	FEECO	35
Sheetrock scrap, loose	1 cubic yard	Tellus	393.5
Slag, crushed	1 cubic yard	Tellus	1,998
Slag, loose	1 cubic yard	Tellus	2,970
Slag, solid	1 cubic foot	FEECO	160–180
Slate, fine ground	1 cubic foot	FEECO	80–90
Slate, granulated	1 cubic foot	FEECO	95

Material/Item	Size/Amount	Study	LB
Slate, solid	1 cubic foot	FEECO	165–175
Sludge, raw sewage (see Appendix I)	1 cubic foot	FEECO	64
Soap, chips	1 cubic foot	FEECO	15–25
Soap, powder	1 cubic foot	FEECO	20–25
Soap, solid	1 cubic foot	FEECO	50
Soil/sandy loam, loose	1 cubic yard	Tellus	2,392
Stone or gravel	1 cubic foot	FEECO	95–100
Stone, crushed	1 cubic foot	FEECO	100
Stone, crushed, size reduced	1 cubic yard	Tellus	2,700
Stone, large	1 cubic foot	FEECO	100
Wax	1 cubic foot	FEECO	60.5
Wood ashes	1 cubic foot	FEECO	48
Glass			
Glass, broken	1 cubic foot	FEECO	80–100
Glass, broken	1 cubic yard	FEECO	2,160.00
Glass, crushed	1 cubic foot	FEECO	40–50.0
Glass, plate	1 cubic foot	FEECO	172
Glass, window	1 cubic foot	FEECO	157
Glass, 1 gallon jug	each	U.S. EPA	2.10–2.80
Glass, beer bottle		U.S. EPA	0.53
Glass, beverage—8 oz	1 bottle	U.S. EPA	0.5
Glass, beverage—8 oz	1 case = 24 bottles	U.S. EPA	12
Glass, beverage—12 oz	1 case = 24 bottles	U.S. EPA	22
Glass, wine bottle		U.S. EPA	1.08
Plastic			
Film plastic/mixed, loose	1 cubic yard	Tellus	22.55
HDPE film plastics, semi-compacted	1 cubic yard	Tellus	75.96
LDPE film plastics, semi-compacted	1 cubic yard	Tellus	72.32
HDPE, common beverage containers			
Plastic, HDPE juice, 8 oz.	8 oz.	U.S. EPA	0.1
Plastic, 1 gallon HDPE jug	1 gallon	U.S. EPA	0.33
Plastic, 1 gallon HDPE beverage container	milk/juice	U.S. EPA	0.19–0.25
PETE, common beverage containers			

Material/Item	Size/Amount	Study	LB
Plastic, 1 liter PETE beverage bottle w/o cap	1 liter	U.S. EPA corr.	0.09
Plastic, PETE water bottle	50 oz. (over 1.5 liters)	U.S. EPA	0.12
Plastic, PETE, 2 liter	1 bottle	U.S. EPA	0.13
Plastic containers			
Plastic, 1 gallon container—mayo	1 gallon	U.S. EPA	0.42
Plastic, 1/2 gallon plastic beverage cont	1/2 gallon	U.S. EPA	0.09
Plastic, beverage container	12 oz.	U.S. EPA	0.05
Miscellaneous plastic items			
Plastic, bubble wrap	33 gallons	U.S. EPA	3
Plastic, bucket	25 gallons	U.S. EPA	1.1
Plastic, bucket w/metal handle	5 gallons	U.S. EPA	1.9
Plastic, cake decorator's boxes	each	U.S. EPA	0.63
Plastic, grocery bag	100 bags	U.S. EPA corr.	0.77
Plastic, HDPE 10–12 fluid oz.		U.S. EPA	0.05
Plastic, HDPE beverage case		U.S. EPA	1.2
Plastic, HDPE bread case		U.S. EPA	1.5
Plastic, HDPE gallon containers (not beverage)	1 gallon	U.S. EPA	0.06
Plastic, HDPE (auto) oil container	1 quart size	U.S. EPA	0.2
Plastic, pot	1 qt size	U.S. EPA	0.25
Plastic, mixed HDPE & PET	1 cubic yard	U.S. EPA	32
Plastic, pallet, 48" x 48"		U.S. EPA	40
Plastic, sheeting	square yard	U.S. EPA	1
Plastic, whole, uncompacted PET	1 cubic yard	U.S. EPA	30–40
Polyethylene, resin pellets	1 cubic foot	FEECO	30–35
Polystyrene beads	1 cubic foot	FEECO	40
Polystyrene, packaging	33 gallon	USEPA	1.5
Styrofoam kernels	1 cubic yard	Tellus	6.27
Polystyrene, blown formed foam	1 cubic yard	Tellus	9.62
Polystyrene, rigid, whole	1 cubic yard	Tellus	21.76
PVC, loose	1 cubic yard	Tellus	341.12
Paper			
Books, hardback, loose	1 cubic yard	Tellus	529.29
Books, paperback, loose	1 cubic yard	Tellus	427.5
Egg flats	one dozen	U.S. EPA	0.12

Material/Item	Size/Amount	Study	LB
Egg flats	12"x12"	U.S. EPA	0.5
Paper sacks	25# size	U.S. EPA	0.5
Paper sacks	50# dry goods	U.S. EPA	1
Calendars/books	1 cubic foot	FEECO	50
Catalogs	100 pages ledger	U.S. EPA	1
Computer printout, loose	1 cubic yard	U.S. EPA	655
Mixed paper, loose (construction, fax, manila, some chipboard)	1 cubic yard	U.S. EPA	363.5
Mixed paper, compacted (construction, fax, manila, some chipboard)	1 cubic yard	U.S. EPA	755
Office paper (white, color, CPO, junk mail)	13 gallon	U.S. EPA	10.01
Office paper (white, color, CPO, junk mail)	33 gallon	U.S. EPA	25.41
Office paper (white, color, CPO, junk mail)	55 gallon	U.S. EPA	42.35
Shredded paper	33 gallons	U.S. EPA	8
White ledger paper	12" stack	U.S. EPA	12
White ledger #20, 8.5" x 11"	1 ream (500 sheets)	U.S. EPA	5
White ledger #20, 8.5"x 14"	1 ream (500 sheets)	U.S. EPA	6.4
White ledger w/o CPO, loose	1 cubic yard	Tellus	363.51
White ledger, uncompacted stacked	1 cubic yard	U.S. EPA	400
White ledger, compacted stacked	1 cubic yard	U.S. EPA	800
Colored message pads	1 carton (144 pads)	U.S. EPA	22
Padded envelope	9" x 12"	U.S. EPA	0.88
Magazines, 8.5" x 11"	10 units	U.S. EPA	3
Manila envelope	1 cubic foot	FEECO	37
Newspapers	12" stack	U.S. EPA	35
Newspapers	1 cubic foot	FEECO	38
Newspapers, loose	1 cubic yard	U.S. EPA	400
Newspapers, stacked	1 cubic yard	U.S. EPA	875
Phone book	Ventura	U.S. EPA	4
Paper pulp, stock	1 cubic foot	FEECO	60-62.00
Tab cards, uncompacted	1 cubic yard	U.S. EPA	605
Tab cards, compacted	1 cubic yard	U.S. EPA	1,275.00
Yellow legal pads	1 case (72 pads)	U.S. EPA	38
Chipboard			
Chipboard, beverage case	4 pack	U.S. EPA	0.1
Chipboard, beverage case	6 pack	U.S. EPA	0.2

Material/Item	Size/Amount	Study	LB
Chipboard, cereal box	average	U.S. EPA	0.15
Chipboard, fabric bolt		U.S. EPA	0.69
Paperboard/boxboard/chipboard whole	1 cubic yard	Tellus	21.5
CARDBOARD			
CARDBOARD, beverage case	4 six-packs, full case	U.S. EPA corr.	0.99
CARDBOARD, box, large	48" x 48" x 60"	U.S. EPA	4
CARDBOARD, box, medium	24" x 24" x 30"	U.S. EPA	2.2
CARDBOARD, box, small	12" x 12" x 15"	U.S. EPA	1.1
CARDBOARD, flattened boxes, loose	1 cubic yard	Tellus	50.08
CARDBOARD, stacked	1 cubic yard	U.S. EPA	50
CARDBOARD, whole boxes	1 cubic yard	Tellus	16.64
CARDBOARD, uncompacted	1 cubic yard	U.S. EPA	100
CARDBOARD, compacted	1 cubic yard	U.S. EPA	400
Organics			
Yard trimmings, mixed	1 cubic yard	USEPA	108
Yard trimmings, mixed	40 cubic yards	U.S. EPA	4,320
Grass	33 gallons	U.S. EPA	25
Grass	3 cubic yards	U.S. EPA	840
Grass & leaves	3 cubic yards	U.S. EPA	325
Large limbs & stumps	1 cubic yard	Tellus	1,080
Leaves, dry	1 cubic yard	Tellus	343.7
Leaves	33 gallons	U.S. EPA	12
Leaves	3 cubic yards	U.S. EPA	200–250
Pine needles, loose	1 cubic yard	Tellus	74.42
Prunings, dry	1 cubic yard	Tellus	36.9
Prunings, green	1 cubic yard	Tellus	46.69
Prunings, shredded	1 cubic yard	Tellus	527
Other Organic			
Hay, baled	1 cubic foot	FEECO	24
Hay, loose	1 cubic foot	FEECO	5
Straw, baled	1 cubic foot	FEECO	24
Straw, loose	1 cubic foot	FEECO	3
Compost	1 cubic foot	FEECO	30–50
Compost, loose	1 cubic yard	Tellus	463.39

Material/Item	Size/Amount	Study	LB
Food			
Bread, bulk	1 cubic foot	FEECO	18
Fat	1 cubic foot	FEECO	57
Fats, solid/liquid (cooking oil)	1 gallon	U.S. EPA	7.45
Fats, solid/liquid (cooking oil)	55 gallon drum	U.S. EPA	410
Fish, scrap	1 cubic foot	FEECO	40–50
Meat, ground	1 cubic foot	FEECO	50–55
Oil, olive	1 cubic foot	FEECO	57.1
Oyster shells, whole	1 cubic foot	FEECO	75–80
Produce waste, mixed, loose	1 cubic yard	Tellus	1,443
Manure			
Manure	1 cubic foot	FEECO	25
Manure, cattle	1 cubic yard	Tellus	1,628
Manure, dried poultry	1 cubic foot	FEECO	41.2
Manure, dried sheep & cattle	1 cubic foot	FEECO	24.3
Manure, horse	1 cubic yard	Tellus	1,252

Wood			
Cork, dry	1 cubic foot	FEECO	15
Pallet, wood or plastic	average 48" x 48"	U.S. EPA	40
Particle board, loose	1 cubic yard	Tellus	425.14
Plywood, sheet 2' x 4'	1 cubic yard	Tellus	776.3
Roofing/shake shingle, bundle	1 cubic yard	Tellus	435.3
Sawdust, loose	1 cubic yard	Tellus	375
Shavings, loose	1 cubic yard	Tellus	440
Wood chips, shredded	1 cubic yard	U.S. EPA	500
Wood scrap, loose	1 cubic yard	Tellus	329.5
Wood, bark, refuse	1 cubic foot	FEECO	30
Wood, pulp, moist	1 cubic foot	FEECO	45–65
Wood, shavings	1 cubic foot	FEECO	15
Miscellaneous			
Toner cartridge	.	U.S. EPA	2.5
Rubber			

Material/Item	Size/Amount	Study	LB
Tire, bus	.	U.S. EPA	75
Tire, car	.	U.S. EPA	20
Tire, truck	.	U.S. EPA	60–100
Rubber, car bumper	.	U.S. EPA	15
Rubber, manufactured	1 cubic foot	FEECO	95
Rubber, pelletized	1 cubic foot	FEECO	50–55
Textiles			
Clothing, used, mixed	cubic yard	Tellus	225
Fabric, canvas	square yard	U.S. EPA	1
Leather, dry	1 cubic foot	FEECO	54
Leather, scrap, semi-compacted	1 cubic yard	Tellus	303
Rope	1 cubic foot	FEECO	42
String	yard	U.S. EPA	1 gram
Used clothing, mixed, loose	1 cubic yard	Tellus	225
Used clothing, compacted	1 cubic yard	Tellus	540
Wool	1 cubic foot	FEECO	15–30
Carpet & padding, loose	1 cubic yard	Tellus	84.4
Metals			
Please refer to Appendix I “What Counts Toward Diversion” to determine if these items qualify.			
Aluminum			
Aluminum foil, loose	1 cubic yard	Tellus	48.1
Aluminum scrap, cubed	1 cubic yard	Tellus	424
Aluminum scrap, whole	1 cubic yard	Tellus	175
Aluminum cans, uncrushed	1 case = 24 cans	U.S. EPA	0.89
Aluminum cans, crushed	13 gallons	U.S. EPA corr.	7.02
Aluminum cans, crushed	33 gallons	U.S. EPA	17.82
Aluminum cans, crushed	39 gallons	U.S. EPA	31.06
Aluminum cans, crushed & uncrushed mix	1 cubic yard	Tellus	91.4
Aluminum cans, uncrushed	1 full grocery bag	U.S. EPA	1.5
Aluminum cans, uncrushed	13 gallons	U.S. EPA	2.21
Aluminum cans, uncrushed	33 gallons	U.S. EPA	5.61
Aluminum cans, uncrushed	39 gallons	U.S. EPA	6.63
Aluminum cans (whole)	1 cubic yard	U.S. EPA	65
Aluminum, chips	1 cubic foot	FEECO	7–15

Material/Item	Size/Amount	Study	LB
Aluminum/tin Cans commingled—uncrushed	33 gallon	USEPA	11.55
Metals Ferrous			
Metal scrap	55 gallon	U.S. EPA	226.5
Metal scrap	cubic yard	U.S. EPA	906
Metal, car bumper	each	U.S. EPA	40
Paint can	5 gallon	U.S. EPA	2.21
Radiator, ferrous	each	U.S. EPA	20
Hanger (adult)	each	CIWMB	0.14
Hanger (child)	each	CIWMB	0.09
Tin can, ferrous	#2.5	U.S. EPA	0.13
Tin can, ferrous	#5	U.S. EPA	0.28
Tin can, ferrous	#10	U.S. EPA	0.77
Tin coated steel cans	1 cubic yard	U.S. EPA	850
Tin coated steel cans	1 case (6 #10 cans)	U.S. EPA	22
Tin, tuna can (3/4 of #10), ferrous	each	U.S. EPA	0.58
Tin, cat food can, ferrous	8 oz.	U.S. EPA	0.14
Tin, dog food can, large, ferrous	22 oz.	U.S. EPA	0.22
Tin, dog food can, ferrous	15.5 oz.	U.S. EPA	0.11
Tin, cast	1 cubic foot	FEECO	455
Cast iron chips or borings	1 cubic foot	FEECO	130–200
Iron cast ductile	1 cubic foot	FEECO	444
Iron, ore	1 cubic foot	FEECO	100–200
Iron, wrought	1 cubic foot	FEECO	480
Steel, shavings	1 cubic foot	FEECO	58–65
Steel, solid	1 cubic foot	FEECO	487
Steel, trimmings	1 cubic foot	FEECO	75–50
Brass, cast	1 cubic foot	FEECO	519
Brass, scrap	1 cubic yard	Tellus	906.43
Bronze,	1 cubic foot	FEECO	552
Copper fittings, loose	1 cubic yard	Tellus	1,047.62
Copper pipe, whole	1 cubic yard	Tellus	210.94
Copper, cast	1 cubic foot	FEECO	542
Copper, ore	1 cubic foot	FEECO	120–150
Copper, scrap	1 cubic yard	Tellus	1,093.52

Material/Item	Size/Amount	Study	LB
Copper, wire, whole	1 cubic yard	Tellus	337.5
Chrome ore (chromite)	1 cubic foot	FEECO	125–140
Lead, commercial	1 cubic foot	FEECO	710
Lead, ores	1 cubic foot	FEECO	200–270
Lead, scrap	1 cubic yard	Tellus	1,603.84
Nickel, ore	1 cubic foot	FEECO	150
Nickel, rolled	1 cubic foot	FEECO	541

Item	Type	Material	Size	LB
Furniture This data is from the U.S. EPA Business Users Guide Study.				
Desk	Executive, double pedestal	Wood		345
Desk	Double pedestal	Laminate	72" x 36"	299.5
Desk	Double pedestal	Laminate	60" x 30"	231
Desk	Single pedestal	Laminate	72" x 36"	250
Desk	Single pedestal	Laminate	42" x 24"	146
Desk	Double pedestal	Metal	72" x 36"	224.67
Desk	Double pedestal	Metal	60" x 30"	184.75
Desk	Double pedestal	Metal	54" x 24"	124
Desk	Single pedestal	Metal	72" x 36"	189
Desk	Single pedestal	Metal	48" x 30"	133.67
Desk	Single pedestal	Metal	42" x 24"	146
Desk	Single pedestal	Metal	40" x 20"	82
Desk	Small modular panel system			422
Desk	Large modular panel system			650
Work station	With return	Laminate	60" x 30"	329.33
Work station	With return	Metal	60" x 30"	230.67
Bridge	Executive	Wood		76.67
Bridge		Laminate		140
Credenza		Wood		250.78
Credenza		Laminate		230.14
Credenza	With knee space	Metal	60" x 24"	156.67
Round conference table	.	Wood	42" diameter	91.5
Bookcase	3 shelves	Wood	36" wide	90
Bookcase	4 shelves	Wood	36" wide	110.9
Bookcase	5 shelves	Wood	36" wide	138.8
Bookcase	6 shelves	Wood	36" wide	134.6
Bookcase	7 shelves	Wood	34" wide	138.5
Bookcase	4 shelves	Laminate		85
Bookcase	5 shelves	Laminate		110
Bookcase	2 shelves	Metal	34"-36"	44.5
Bookcase	3 shelves	Metal	34"-36"	57.5
Bookcase	4 shelves	Metal	34"-36"	70.5

Item	Type	Material	Size	LB
Bookcase	5 shelves	Metal	34"-36"	89
Bookcase	6 shelves	Metal	34"-36"	101
File Cabinet	2 drawer, lateral	Wood		155.14
File cabinet	2-drawer, lateral	Laminate		171.5
File cabinet	2-drawer, lateral	Metal	30"-42"	230.67
File cabinet	4-drawer, lateral	Metal	36"	207.33
File cabinet	2-drawer, vertical	Metal	Letter size	60.6
File cabinet	4-drawer, vertical	Metal	Letter size	107.6
File cabinet	2-drawer, vertical	Metal	Legal size	71.5
File cabinet	4-drawer, vertical	Metal	Legal size	123.5
Chair	Executive desk			51.167
Chair	Guest arm			38.2
Chair	Swivel arm			45.25
Chair	Secretary with no arms			31.76
Chair	Stacking			15.83
Personal computer	CPU (central processing unit)			26
Computer monitor				30
Computer printer				25.33

Source Acronyms Used:

CIWMB: California Integrated Waste Management Board

FEECO: FEECO Incorporated

Tellus: Tellus Institute, Boston Massachusetts

U.S. EPA: United States Environmental Protection Agency (Business Users Guide)