

Quick Reference for Conversions Between SI and English Units

Volume			Volume/Area		Weight/Area					Weight							
					kg/ha		lb/A		ton/A		bu/A		lb		kg		ton
qt	L	gal	L/ha	gpa	kg/ha	lb/A	ton/A	56 lb	60 lb	lb	kg	ton	g	ounce			
1	1	0.3	1	0.1	0.1	0.09				0.2	0.1		1	0.04			
2.1	2	0.5	2	0.2	0.2	0.18				0.4	0.2		2	0.07			
3.2	3	0.8	3	0.3	0.3	0.27				0.7	0.3		3	0.1			
4.2	4	1.1	4	0.4	0.4	0.36				0.9	0.4		4	0.14			
5.3	5	1.3	5	0.5	0.5	0.45				1.1	0.5		5	0.18			
6.3	6	1.6	6	0.6	0.6	0.54				1.3	0.6		6	0.21			
7.4	7	1.8	7	0.7	0.7	0.62				1.5	0.7		7	0.25			
8.5	8	2.1	8	0.9	0.8	0.71				1.8	0.8		8	0.28			
9.5	9	2.4	9	1	0.9	0.80				2	0.9		9	0.32			
11	10	2.6	10	1.1	1	0.89				2.2	1		10	0.35			
21	20	5.3	20	2.1	2	1.8				4.4	2		20	0.7			
32	30	7.9	30	3.2	3	2.7				6.6	3		30	1.1			
42	40	11	40	4.3	4	3.6				8.8	4		40	1.4			
53	50	13	50	5.3	5	4.5				11	5		50	1.8			
63	60	16	60	6.4	6	5.4				13	6		60	2.1			
74	70	18	70	7.5	7	6.2				15	7		70	2.5			
85	80	21	80	8.6	8	7.1				18	8		80	2.8			
95	90	24	90	9.6	9	8.0				20	9		90	3.2			
106	100	26	100	11	10	8.9				22	10		100	3.5			
211	200	53	200	21	20	18				44	20		200	7.1			
317	300	79	300	32	30	27				66	30		300	11			
423	400	106	400	43	40	36				88	40		400	14			
528	500	132	500	53	50	45				110	50		500	18			
634	600	159	600	64	60	54		1		132	60		600	21			
740	700	185	700	75	70	62			1	154	70		700	25			
846	800	211	800	86	80	71				176	80		800	28			
951	900	238	900	96	90	80				198	90		900	32			
1057	1000	264	1000	107	100	89			2	220	100	0.1	1000	35			
*1.057		*0.264		*0.107	200	178	0.1		3	441	200	0.2			*0.0353		
					300	268			5	661	300	0.3					
					400	357			6	882	400	0.4					
					500	446	0.2		7	1102	500	0.5					
					600	535			10	1323	600	0.7					
					700	624	0.3		11	1543	700	0.8					
					800	714			12	1764	800	0.9					
					900	803	0.4		13	1984	900	1					
					1000	892			16	2205	1000	1.1					
					2000	1784	0.9		32	4410	2000	2.2					
					3000	2676	1.3		48	6615	3000	3.3					
					4000	3568	1.8		64	8820	4000	4.4					
					5000	4460	2.2		80	11025	5000	5.5					
					6000	5352	2.7		96	13230	6000	6.6					
					7000	6244	3.1		111	15435	7000	7.7					
					8000	7136	3.6		127	17640	8000	8.8					
					9000	8028	4.0		143	19845	9000	9.9					
					10000	8920	4.5		159	22050	10000	11					
					11000	9812	4.9		175								
					12000	10704	5.4		191	*2.205		*0.0011					
					13000	11596	5.8		207								
					14000	12488	6.2		223								
					15000	13380	6.7		239								
							*0.892	*0.00045	*0.016	*0.015							
Temperature		Speed		Pressure		Length											
°C	°F	km/h	mph	kPa	psi	inch	cm	feet	feet	meter	yard	yard	km	mile			
100	212	1	0.6	50	7	0.4	1		0.3	0.1	0.1	109	0.1	0.06			
90	194	2	1.2	75	11	0.8	2		0.6	0.2	0.2	219	0.2	0.12			
80	176	3	1.9	100	14	1.2	3	0.1	0.9	0.3	0.3	328	0.3	0.19			
70	158	4	2.5	125	18	1.6	4		1.3	0.4	0.4	438	0.4	0.25			
60	140	5	3.1	150	22	2	5		1.6	0.5	0.5	547	0.5	0.31			
50	122	6	3.7	175	25	2.4	6	0.2	2	0.6	0.7	656	0.6	0.37			
40	104	7	4.3	200	29	2.8	7		2.3	0.7	0.8	766	0.7	0.43			
35	95	8	5	225	33	3.1	8		2.6	0.8	0.9	875	0.8	0.5			
30	86	9	5.6	250	36	3.5	9		3	0.9	1	985	0.9	0.56			
25	77	10	6.2	275	40	3.9	10	0.3	3.3	1	1.1	1094	1	0.62			
20	68	20	12	300	43	7.9	20	0.6	6.6	2	2.2		2	1.2			
15	59	30	19	325	47	12	30	1	9.8	3	3.3	*1094	3	1.9			
10	50	40	25	350	51	16	40	1.3	13	4	4.4		4	2.5			
5	41	50	31	375	54	20	50	1.6	16	5	5.5		5	3.1			
0	32	60	37	400	58	24	60	2	20	6	6.6		6	3.7			
-5	23	70	43	500	73	28	70	2.3	23	7	7.7		7	4.3			
-10	14	80	50	600	87	32	80	2.6	26	8	8.8		8	5			
-15	5	90	56	700	101	36	90	3	30	9	9.8		9	5.6			
-20	-4	100	62	800	116	39	100	3.3	33	10	11		10	6.2			
-25	-13			900	130	79	200	6.6	66	20	22		20	12			
-30	-22		*0.6214	1000	145	118	300	9.8	98	30	33		30	19			
-40	-40					157	400	13	131	40	44		40	25			
					*0.145	197	500	16	164	50	55		50	31			
						236	600	20	199	60	66		60	37			
						276	700	23	230	70	76		70	43			
						315	800	26	262	80	87		80	50			
						354	900	30	295	90	98		90	56			
						394	1000	33	328	100	109		100	62			
						*0.3937		*0.0328	*3.281	*1.094				*0.6214			

*Multiply the SI units by this factor to convert to English units for this column.

Common and Trade Names and Manufacturers of Herbicides

Trade names and manufacturers listed are the original and/or most common source(s) of the herbicide listed. The list is provided as an aid to readers who are more familiar with trade names than common names. No attempt is made to include all trade names or manufacturers of a herbicide nor is any discrimination implied against similar products available from other sources. A complete listing of common names, pronunciation, chemistry, trade names, and manufacturers is available on the back cover of *Weed Science* and/or in the *Herbicide Handbook* from the WSSA, 309 W. Clark St., Champaign, IL 61820.

Common Name	Trade Name	Manufacturer	Common Name	Trade Name	Manufacturer
acetochlor	Harness	Monsanto	diethyl	Antor	Nor-Am
acifluorfen	Blazer	BASF	difenzoquat	Avenge	American Cyanamid
acrolein	Magnacide H	Magna	dinoseb	several	several
alachlor	Lasso	Monsanto	dipropetryn	Sancap	CIBA-Geigy
	Crop Star	Monsanto	diquat	Diquat	Valent
ametryn	Evik	CIBA-Geigy		Weedtrine-D	Applied Biochemists
amitrole	Amitrol T	Rhone-Poulenc		Reglone*	Chipman
	Amizol	Rhone-Poulenc	dithiopyr	Dimension	Monsanto
	AT-90	Custom Chemicides	diuron	several	several
	AT-Liquid	Custom Chemicides	DPX-V9360	Accent	DuPont
arsenic acid	several	several	(proposed: nicosulfuron)		
asulam	Asulox	Rhone-Poulenc			
atrazine	several	several			
			endothall	several	Atochem
barban	Carbyne	United Agri-Products	EPTC	Eptam	ICI Americas
BAS 514...H	Facet	BASF		Eradicane	ICI Americas
(proposed:quinclorac)				Sonalan	DowElanco
benefin	Balan	DowElanco	ethalfuralin	Curbit	Platte
bensulfuron	Londax	DuPont		Edge*	DowElanco
bensulide	Prefar	ICI Americas	ethofumesate	Nortron	Nor-Am
	Betasan	ICI Americas		Prograss	Nor-Am
	Bensumec	PBI Gordon			
bentazon	Basagran	BASF	fenoxaprop	Whip	Hoechst-Roussel
	Pledge	Setre		Acclaim	Hoechst-Roussel
bromacil	Hyvar	DuPont		Horizon	Hoechst-Roussel
bromoxynil	Buctril	Rhone-Poulenc		Excel*	Hoechst-Roussel
	Bromax	Loveland Hopkins	flamprop	Mataven*	DuPont
	Pardner*	Rhone-Poulenc	fluazifop	Fusilade	ICI Americas
	Torch DS*	Rhone-Poulenc		Ornamec	PPI Gordon
butachlor	Machete	Monsanto	fluazifop-P	Fusilade 2000	ICI Americas
buthidazole	Ravage	Sandoz	fluchoralin	Basalin	BASF
butylate	Sutan	ICI Americas	fluometuron	Cotoran	CIBA-Geigy
				Meturon	Griffin
cacodylic acid	several	several	fluroglycofen		Rohm and Haas
CDAA	Randox	Monsanto	fluridone	Sonar	DowElanco
CGA-136872	Beacon	CIBA-Geigy	flurtamone	Benchmark	Chevron
(proposed: primisulfuron)			fomesafen	Reflex	ICI Americas
chlormuron	Classic	DuPont	fosamine	Krenite	DuPont
chlorsulfuron	Glean	DuPont			
	Telar	DuPont	glyphosate	Roundup	Monsanto
	Select	Valent		and several others	
clethodim	Command	FMC		Rattler	Setre
clomazone	Reclaim	DowElanco	haloxyfop	Verdict	DowElanco
clopyralid	Stinger	DowElanco	hexazinone	Velpar	DuPont
	Lontrel*	DowElanco		Pronone	Pro-Serve
	several	several			
copper sulfate			imazamethabenz	Assert	American Cyanamid
and copper complexes			imazapyr	Arsenal	American Cyanamid
cyanazine	Bladex	DuPont		Chopper	American Cyanamid
cycloate	Ro-Neet	ICI Americas	imazaquin	Scepter	American Cyanamid
				Image	American Cyanamid
dazomet	several	several	imazethapyr	Pursuit	American Cyanamid
DCPA	Dacthal	Fermenta	isopropalin	Paarlan	American Cyanamid
desmedipham	Betanex	Nor-Am	isoxaben	Gallery	DuPont
diallate	Avadex	Monsanto			
dicamba	Banvel	Sandoz	lactofen	Cobra	Valent
	Trooper	Monsanto	linuron	Lorox	DuPont
	Dyclear*	Sandoz		Linex	Griffin
dichlobenil	Casoran	Uniroyal		Drexel Linuron	Drexel
	Dyclomec	PBI Gordon		Afolan*	Hoechst Canada
	Norosac	PPI Gordon			
dichlorprop (2,4-DP)	several	several	MAA	several	several
diclofop	Hoelon	Hoechst-Roussel	MCPA	several	several
	Hoe Grass*	Hoechst Canada	MCPB	Thistrol	Rhone-Poulenc
	Illoxan	Hoechst-Roussel			

mecoprop meffluicide metham methazole metolachlor	several Embark Vapam Probe Dual Pennant	several 3M ICI Americas Sandoz CIBA-Geigy CIBA-Geigy	propanil	Stam Strel Prostar Cedar Propanil Wham DF Riverside Propanil	Rohm and Haas Rohm and Haas Rohm and Haas Cedar Cedar Terra Int.
metribuzin	Lexone Sencor	DuPont Mobay	propazine pyrazon pyridate	Milogard Pyramin Tough Lentagran	CIBA-Geigy BASF Agrolinz Agrolinz
metsulfuron	Ally Escort	DuPont DuPont			
MH molinate monocarbamide dihydrogensulfate MSMA	several Ordram Enquik	several ICI Americas Unocal	quizalofop	Assure	DuPont
napropamide	several	several	sethoxydim siduron simazine sodium chlorate sulfometuron	Poast Tupersan several several Oust	BASF DuPont several several DuPont
naptalam norflurazon	Devrinol Hurdle Alanap Zorial Evital Sollicam	ICI Americas Olympic Uniroyal Sandoz Sandoz Sandoz	tebuthiuron	Spike Herbec* Sinbar Igran Pinnacle Bolero Far-go Showdown Avadex BW*	DowElanco DowElanco DuPont CIBA-Geigy DuPont Valent Monsanto Monsanto Monsanto DuPont
oryzalin oxadiazon oxyfluorfen	Surflan Chipco Ronstar Goal	DowElanco Rhône-Poulenc Rohm and Haas	terbacil terbutryn thifensulfuron thiobencarb triallate	Herbec* Sinbar Igran Pinnacle Bolero Far-go Showdown Avadex BW*	DowElanco DowElanco DuPont CIBA-Geigy DuPont Valent Monsanto Monsanto Monsanto DuPont
paraquat	Gramoxone Cyclone Sweep* Starfire	ICI Americas ICI Americas Chipman ICI Americas	tribenuron triclopyr	Express Garlon Rely Tandem Treflan Tri-4 Trilin Trific Gowan Trifluralin Rival*	DowElanco DowElanco DuPont DowElanco DowElanco American Cyanamid Griffin Terra Gowan Hoechst Canada
pebulate pendimethalin	Tillam Prowl Stomp Spin-Aid	ICI Americas American Cyanamid American Cyanamid Nor-Am	tridiphane trifluralin	Heritage* Triflurex* several Butyrac Butoxone Cobutox*	Hoechst-Roussel DowElanco DowElanco American Cyanamid Griffin Terra Gowan Hoechst Canada
phenmedipham picloram prodiamine prometon prometryn	Tordon and others Barricade Pramitol Caparol Gowan Prometryne Colton-Pro Gesagard* Kerb	DowElanco Sandoz CIBA-Geigy CIBA-Geigy Gowan Griffin CIBA-Geigy Rohm and Haas	2,4-D 2,4-DB	several Butyrac Butoxone Cobutox*	Makhteshim several Rhône-Poulenc Cedar IPCO
pronamide, propyzamide* propachlor	Ramrod	Monsanto	vernolate	Vernam	Drexel

*Names used in Canada but not in the United States.

Herbicide Package Mixtures

Trade Name	Active Ingredients	Manufacturer	Trade Name	Active Ingredients	Manufacturer
Access	picloram + triclopyr	DowElanco	Buckle	triallate + trifluralin	Monsanto
Arrosolo	molinate + propanil	ICI Americas	Buctril + Atrazine	bromoxynil + atrazine	Rhône-Poulenc
Atrabute	EPTC + atrazine	Griffin	Buctril M*	bromoxynil + MCPA	Rhône-Poulenc
Atratul 8P	atrazine + sodium chlorate + sodium metaborate	CIBA-Geigy	Bullet	alachlor + atrazine	Monsanto
Barvel 720	dicamba + 2,4-D	Sandoz	Calmix Pellets*	bromacil + 2,4-D	Rhône-Poulenc
Bareground BD	bromacil + diuron + sodium chlorate + sodium metaborate	Pro-Serve, Inc.	Cannon	alachlor + trifluralin	Monsanto
Betamix	desmedipham + phenmedipham	Nor-Am	Canopy	metribuzin + chlorimuron	DuPont
Bicep	atrazine + metolachlor	CIBA-Geigy	Clearup MCPP 2,4-D	mecoprop + 2,4-D	Cleary
Blagal*	cyanazine + MCPA	DuPont	Commence	clomazone + trifluralin	FMC
Bolis-Eye	sodium cacodylate + cacodylic acid	Inter Ag	Comptox Plus*	mecoprop + 2,4-D	Rhône-Poulenc
Broadside	MSMA + sodium cacodylate + cacodylic acid	Inter Ag	Confront	triclopyr + clopyralid	DowElanco
Bromox 720M	bromoxynil + MCPA	Rhône-Poulenc	Croak	fluometuron + MSMA	Drexel
Bronate	bromoxynil + MCPA	Rhône-Poulenc	Crossbow	triclopyr + 2,4-D	DowElanco
Bronco	alachlor + glyphosate	Monsanto	Curtail	clopyralid + 2,4-D	DowElanco
			Curtail M	clopyralid + MCPA	DowElanco
			Cycle	metolachlor + cyanazine	CIBA-Geigy
			Dyclear 24*	dicamba + 2,4-D	Sandoz
			Dyvel*	dicamba + MCPA	Sandoz

Envert 171 Estaprop* Expedite Broadleaf Herbicide Extrazine II	2,4-D + dichlorprop dichlorprop + 2,4-D 2,4-D + mecoprop cyanazine + atrazine	Rhone-Poulenc Rhone-Poulenc Monsanto DuPont	Rescue Rout Rustier	naptalam + 2,4-DB oxyfluorfen + oryzalin glyphosate + 2,4-D	Uniroyal Sierra Monsanto
Fallow Master Finesse	glyphosate + dicamba chlorsulfuron + metsulfuron	Monsanto DuPont	Sabre* Salute Scepter O.T. Simazat Spike Treflan Squadron	bromoxynil + MCPA trifluralin + metribuzin imazaquin + acifluorfen simazine + atrazine tebuthiuron + trifluralin imazaquin + pendimethalin	Rhone-Poulenc Mobay American Cyanamid Drexel DowElanco American Cyanamid
Fortress* Freedom	triallate + trifluralin alachlor + trifluralin	Monsanto Monsanto	Stampede CM Storm Super Trimec	propanil + MCPA bentazon + acifluorfen 2,4-D + dichlorprop + dicamba	Rohm and Haas BASF PBI Gordon
Galaxy Gemini	bentazon + acifluorfen linuron + chlorimuron	BASF DuPont	Sutazine	atrazine + butylate	ICI Americas
Harmony Extra	thifensulfuron + tribenuron	DuPont	Target*	dicamba + mecoprop + MCPA	CIBA-Geigy
Helclean I	sodium metaborate + sodium chlorate + bromacil	Helena	Team Tiller	benefin + trifluralin fenoxaprop + 2,4-D + MCPA	DowElanco Hoechst-Roussel
Helena Weed Blast Hoe Grass II*	bromacil + diuron diclofop + bromoxynil	Helena Hoechst Canada	Tordon 101 Mixture Tordon 101R Tordon RTU Tornado Trimec Classic	picloram + 2,4-D picloram + 2,4-D picloram + 2,4-D fluazifop + formesafen 2,4-D + mecoprop + dicamba	DowElanco DowElanco DowElanco ICI Americas PBI Gordon
Kil-Mor*	dicamba + mecoprop + 2,4-D	CIBA-Geigy	Trimec Encore	MCPA + mecoprop + dicamba	PPI Gordon
Krovar	bromacil + diuron	DuPont	Trimec Plus	MSMA + 2,4-D + mecoprop + dicamba	PPI Gordon
Laddok Landmaster II Landmaster BW Lariat Liquid Amizine Lorox Plus	bentazon + atrazine glyphosate + 2,4-D glyphosate + 2,4-D alachlor + atrazine amitrole + simazine linuron + chlorimuron	BASF Monsanto Monsanto Rhone-Poulenc DuPont	Tri-Scept Turbo	imazaquin + trifluralin metolachlor + metribuzin	American Cyanamid Mobay
Marksman	dicamba + atrazine	Sandoz	Turf Kleen Turflon D Turflon II 2 Plus 2	mecoprop + 2,4-D triclopyr + 2,4-D triclopyr + 2,4-D MCPP + 2,4-D	Rhone-Poulenc DowElanco DowElanco Fermenta
Passport Phenomic 2+1 Phytar 560	imazethapyr + trifluralin mecoprop + 2,4-D sodium cacodylate + cacodylic acid	American Cyanamid PBI Gordon Inter Ag	Vegemec	prometon + 2,4-D + aromatic oil	PPI Gordon
Pramitol 5PS	prometon + simazine + sodium chlorate + sodium metaborate	CIBA-Geigy	Weedmaster Weedone CB Weedone 170 Weedone DPC	dicamba + 2,4-D dichlorprop + 2,4-D dichlorprop + 2,4-D dichlorprop + 2,4-D	Sandoz Rhone-Poulenc Rhone-Poulenc Rhone-Poulenc
Preview	metribuzin + chlorimuron	DuPont	XL 2G	benefin + oryzalin	DowElanco
Primextra* Pursuit Plus	metolachlor + atrazine pendimethalin + imazethapyr	CIBA-Geigy American Cyanamid			
Ramrod/Atrazine	propachlor + atrazine	Monsanto			

*Names used in Canada but not in the United States.

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