

Metrics Used in EWG's Shopper's Guide to Pesticides Compiled from USDA and FDA Data

Commodity Name	Score	Commodity abbreviation	Commodity type	Imported/ Domestic	Number of samples	Percent of samples tested with detectable pesticides	Percent of samples with two or more pesticides	Average number of pesticides found on a single sample	Average amount (level in parts per million) of all pesticides found	Maximum number of pesticides found on a single sample	Total number of pesticides found on the commodity
Celery	100	CE	FR	ALL	2953	95.00%	84.70%	3.79	0.316	13	67
Peaches	99	PC	FR	ALL	2889	96.20%	85.70%	3.08	1.066	9	67
Strawberries	95	ST	FR	ALL	2727	92.80%	74.40%	2.9	0.789	13	53
Apples	89	AP	FR	ALL	2963	93.60%	82.30%	2.75	0.894	9	47
Blueberries - Domestic	83	BB	FR	DOM	663	85.20%	73.00%	3	0.293	13	40
Nectarines	81	NE	FR	ALL	1943	95.10%	80.60%	2.48	0.849	7	40
Sweet Bell Peppers	78	PP	FR	ALL	2223	81.30%	61.50%	2.34	0.137	11	63
Spinach	76	SP	FR	ALL	1846	76.40%	44.10%	1.58	1.373	9	45
Cherries	75	CH	FR	ALL	980	90.60%	72.10%	2.73	0.228	8	43
Kale / Collard Greens*	73	GL/GK	FR	ALL	19187	75.82%	50.11%	2.01	0.567	10	57
Potatoes	68	PO	FR	ALL	2216	84.20%	30.80%	1.29	1.602	6	36
Grapes - Imported	63	GR	FR	IMP	1378	84.20%	53.20%	1.76	0.284	8	36
Lettuce	63	LT	FR	ALL	2780	68.20%	44.10%	1.72	0.142	9	54
Blueberries - Imported	62	BB	FR	IMP	772	76.60%	49.70%	1.82	0.190	9	39
Carrots	62	CR	FR	ALL	2965	81.50%	50.90%	1.77	0.045	8	45
Green Beans - Domestic	62	GB	FR	DOM	2885	65.60%	44.40%	1.55	0.230	9	51
Pears	61	PE	FR	ALL	1483	86.20%	45.70%	1.64	0.586	6	33
Plums - Imported	59	PU	FR	IMP	424	97.20%	41.50%	1.48	1.200	4	12
Summer Squash	54	SS	FR	ALL	1482	81.80%	34.40%	1.3	0.061	7	43
Cucumbers - Imported	52	CU	FR	IMP	1050	84.50%	42.50%	1.44	0.081	6	32
Green Beans - Imported	49	GB	FR	IMP	588	80.30%	36.60%	1.31	0.130	5	34
Hot Peppers	49			ALL	985	55.00%	27.50%	1	0.290	6	51
Red Raspberries	45			ALL	215	47.90%	23.30%	0.87	0.906	6	21
Oranges	43	OG	FR	ALL	2972	85.10%	34.60%	1.25	0.100	4	18
Grapes - Domestic	42	GR	FR	DOM	1533	60.50%	23.40%	0.94	0.104	7	31
Cantaloupe - Imported	39	CN	FR	IMP	888	72.70%	32.40%	1.15	0.042	4	21
Cucumbers - Domestic	37	CU	FR	DOM	1130	61.50%	22.10%	0.91	0.035	4	33
Cauliflower	37	CF	FR	ALL	1484	83.00%	12.30%	0.98	0.003	5	20
Tomatoes	36	TO	FR	ALL	2967	52.60%	18.70%	0.78	0.033	5	36
Bananas	35	BN	FR	ALL	2915	58.30%	15.10%	0.75	0.030	7	19
Broccoli	34	BR	FR	ALL	2196	46.60%	16.80%	0.67	0.006	5	37
Winter Squash	32	WS	FR	ALL	1464	42.30%	12.50%	0.59	0.016	5	36
Cranberries	31	CA	FR	ALL	316	58.40%	20.10%	0.93	0.031	5	11
Plums - Domestic	30	PU	FR	DOM	659	53.80%	17.50%	0.73	0.146	4	17
Honeydew Melon	29			ALL	120	59.20%	14.20%	0.77	0.012	4	16
Sweet Potatoes	28	SW	FR	ALL	1661	56.80%	9.30%	0.67	0.195	3	18
Grapefruit	27	GF	FR	ALL	1485	54.50%	17.50%	0.75	0.043	4	10
Watermelon	24	WM	FR	ALL	732	28.10%	9.60%	0.4	0.014	5	27
Cantaloupe - Domestic	22	CN	FR	DOM	999	35.90%	7.80%	0.45	0.013	4	19
Eggplant	18	EP	FR	ALL	1476	24.60%	5.40%	0.31	0.013	4	18
Cabbage	16			ALL	252	17.90%	4.80%	0.23	0.121	3	18
Kiwi Fruit (Subtropical and Tropical)	13			ALL	59	15.30%	3.40%	0.2	0.160	3	8
Asparagus	10	AS	FR	ALL	1431	6.60%	0.80%	0.07	0.021	2	22
Sweet Peas - Frozen	10	PS	FZ	ALL	734	22.90%	2.30%	0.25	0.010	2	5
Mango (Subtropical and Tropical)	9			ALL	184	7.10%	0.50%	0.08	0.057	2	13
Pineapples	6	PN	FR	ALL	1454	7.70%	0.60%	0.08	0.002	2	6
Sweet Corn - Frozen	2	CS	FZ	ALL	765	3.70%	0.00%	0.04	0.004	1	3
Avocado	1			ALL	146	1.40%	0.00%	0.01	0.001	1	2
Onions	1	ON	FR	ALL	1482	0.20%	0.00%	0	0.000	1	2

Note: Data for collard greens and kale are combined for our Shopping Guide analyses to allow more commonly consumed items to appear on our Dirty Dozen list. Individual test results for the 2 different, closely scoring greens are shown below; above is their weighted average.

Collard Greens	75	GL	FR	ALL	679	78.80%	53.20%	2.16	0.722	9	50
Kale	72	GK	FR	ALL	802	73.30%	47.50%	1.88	0.436	10	57

Source: Environmental Working Group. Compiled from USDA (Pesticide Data Program) and FDA (Pesticide Monitoring Database) data from 2000-2008.

Normalized Scores for Each Commodity, Based on EWG Metrics from USDA and FDA Data

Commodity Name	Score for percent of samples tested with detectable pesticides	Score for percent of samples with two or more pesticides	Score for the average number of pesticides found on a single sample	Score for the average amount (level in parts per million) of all pesticides found	Score for the maximum number of pesticides found on a single sample	Score for the total number of pesticides found on the commodity	Total score
Celery	98	99	100	20	100	100	517
Peaches	99	100	81	67	67	100	514
Strawberries	96	87	77	50	100	79	489
Apples	96	96	73	56	67	70	458
Blueberries - Domestic	88	85	79	19	100	59	430
Nectarines	98	94	66	53	51	59	421
Sweet Bell Peppers	84	72	62	9	84	94	405
Spinach	79	52	42	86	67	66	392
Cherries	93	84	72	15	59	63	386
Kale / Collard Greens*	78	59	53	36	71	80	378
Potatoes	87	37	35	100	42	53	354
Grapes - Imported	87	62	47	19	59	53	327
Lettuce	70	52	46	10	67	80	325
Blueberries - Imported	79	58	49	13	67	57	323
Carrots	84	60	47	4	59	66	320
Green Beans - Domestic	68	52	41	15	67	76	319
Pears	89	54	44	37	42	48	314
Plums - Imported	100	49	40	75	26	16	306
Summer Squash	84	41	35	5	51	63	279
Cucumbers - Imported	87	50	39	6	42	47	271
Green Beans - Imported	83	43	35	9	34	50	254
Hot Peppers	57	33	27	19	42	76	254
Red Raspberries	50	28	24	57	42	30	231
Oranges	88	41	34	7	26	25	221
Grapes - Domestic	63	28	26	7	51	45	220
Cantaloupe - Imported	75	38	31	4	26	30	204
Cucumbers - Domestic	64	27	25	3	26	48	193
Cauliflower	86	15	27	1	34	28	191
Tomatoes	54	23	21	3	34	53	188
Bananas	60	18	21	3	51	27	180
Broccoli	48	20	19	1	34	54	176
Winter Squash	44	15	16	2	34	53	164
Cranberries	60	24	25	3	34	15	161
Plums - Domestic	56	21	20	10	26	24	157
Honeydew Melon	61	17	21	2	26	22	149
Sweet Potatoes	59	12	19	13	18	25	146
Grapefruit	56	21	21	4	26	13	141
Watermelon	29	12	11	2	34	39	127
Cantaloupe - Domestic	37	10	13	2	26	27	115
Eggplant	26	7	9	2	26	25	95
Cabbage	19	7	7	8	18	25	84
Kiwi Fruit (Subtropical and Tropical)	16	5	6	11	18	10	66
Asparagus	8	2	3	2	9	31	55
Sweet Peas - Frozen	24	4	8	2	9	6	53
Mango (Subtropical and Tropical)	8	2	3	5	9	18	45
Pineapples	9	2	3	1	9	7	31
Sweet Corn - Frozen	5	1	2	1	1	3	13
Avocado	2	1	1	1	1	1	7
Onions	1	1	1	1	1	1	6

Note: Data for collard greens and kale are combined for our Shopping Guide analyses to allow more commonly consumed items to appear on our Dirty Dozen list. Individual test results for the 2 different, closely scoring greens are shown below; above is their weighted average.

Collard Greens	81	62	57	46	67	74	387
Kale	76	56	50	28	75	85	370

Source: Environmental Working Group. Compiled from USDA (Pesticide Data Program) and FDA (Pesticide Monitoring Database) data from 2000-2008.