

Table 1
Prevalence of fragrance sensitivity (adverse health effects from exposure to fragranced products)
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	394	362	306	364	1426
	34.7%	33.0%	27.8%	33.1%	32.2%

Table 2
Health problems when exposed to air fresheners or deodorizers
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	232	180	170	190	772
	20.4%	16.4%	15.5%	17.3%	17.4%
No	791	760	798	780	3129
	69.6%	69.2%	72.5%	70.9%	70.6%
Don't know/not sure	109	157	130	123	519
	9.6%	14.3%	11.8%	11.2%	11.7%
Decline to answer	5	1	2	7	15
	0.4%	0.1%	0.2%	0.6%	0.3%

2a. Which of the following health problems do you experience?

Base: Respondents who experienced below health problems when exposed to air fresheners or deodorizers

	USA	AUS	UK	Sweden	
Total	232	180	170	190	
	100.00%	100.00%	100.00%	100.00%	
Migraine headaches	82	46	40	74	242
	35.30%	25.60%	23.50%	38.90%	30.8%
Asthma attacks	53	49	44	36	182
	22.80%	27.20%	25.90%	18.90%	23.7%
Neurological problems (e.g., dizziness, seizures, head pain, fainting, loss of coordination)	36	24	15	32	107
	15.50%	13.30%	8.80%	16.80%	13.6%
Respiratory problems (e.g., difficulty breathing, coughing, shortness of breath)	108	100	76	105	389
	46.60%	55.60%	44.70%	55.30%	50.6%
Skin problems (e.g., rashes, hives, red skin, tingling skin, dermatitis)	65	53	50	34	202
	28.00%	29.40%	29.40%	17.90%	26.2%
Cognitive problems (e.g., difficulties thinking, concentrating, or remembering)	31	21	14	21	87
	13.40%	11.70%	8.20%	11.10%	11.1%
Mucosal symptoms (e.g., watery or red eyes, nasal congestion, sneezing)	86	68	49	75	278
	37.10%	37.80%	28.80%	39.50%	35.8%
Immune system problems (e.g., swollen lymph glands, fever, fatigue)	21	20	10	7	58
	9.10%	11.10%	5.90%	3.70%	7.5%
Gastrointestinal problems (e.g., nausea, bloating, cramping, diarrhea)	31	16	17	14	78
	13.40%	8.90%	10.00%	7.40%	9.9%
Cardiovascular problems (e.g., fast or irregular heartbeat, jitteriness, chest discomfort)	30	21	23	10	84
	12.90%	11.70%	13.50%	5.30%	10.9%
Musculoskeletal problems (e.g., muscle or joint pain, cramps, weakness)	27	18	11	5	61
	11.60%	10.00%	6.50%	2.60%	7.7%
Other	8	6	7	11	32
	3.40%	3.30%	4.10%	5.80%	4.2%
SUM	578	442	356	424	1800
	249.10%	245.60%	209.40%	223.20%	231.8%

Table 3
Health problems from the scent of laundry products coming from a dryer vent
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	142	67	66	62	337
	12.5%	6.1%	6.0%	5.6%	7.6%
No	906	909	926	934	3675
	79.7%	82.8%	84.2%	84.9%	82.9%
Don't know/not sure	88	120	107	96	411
	7.7%	10.9%	9.7%	8.7%	9.3%
Decline to answer	1	2	1	8	12
	0.1%	0.2%	0.1%	0.7%	0.3%

3a. Which of the following health problems do you experience?

Base: Respondents who experienced below health problems from the scent of laundry products coming from a dryer vent

	USA	AUS	UK	Sweden	
Total	142	67	66	62	1426
	100.00%	100.00%	100.00%	100.00%	32.2%
Migraine headaches	37	14	15	18	84
	26.10%	20.90%	22.70%	29.00%	24.7%
Asthma attacks	28	15	23	12	78
	19.70%	22.40%	34.80%	19.40%	24.1%
Neurological problems (e.g., dizziness, seizures, head pain, fainting, loss of coordination)	24	8	8	6	46
	16.90%	11.90%	12.10%	9.70%	12.7%
Respiratory problems (e.g., difficulty breathing, coughing, shortness of breath)	46	28	21	19	114
	32.40%	41.80%	31.80%	30.60%	34.2%
Skin problems (e.g., rashes, hives, red skin, tingling skin, dermatitis)	41	23	17	20	101
	28.90%	34.30%	25.80%	32.30%	30.3%
Cognitive problems (e.g., difficulties thinking, concentrating, or remembering)	15	11	11	7	44
	10.60%	16.40%	16.70%	11.30%	13.8%
Mucosal symptoms (e.g., watery or red eyes, nasal congestion, sneezing)	48	17	12	17	94
	33.80%	25.40%	18.20%	27.40%	26.2%
Immune system problems (e.g., swollen lymph glands, fever, fatigue)	19	20	9	4	52
	13.40%	29.90%	13.60%	6.50%	15.9%
Gastrointestinal problems (e.g., nausea, bloating, cramping, diarrhea)	29	13	7	3	52
	20.40%	19.40%	10.60%	4.80%	13.8%
Cardiovascular problems (e.g., fast or irregular heartbeat, jitteriness, chest discomfort)	15	15	6	6	42
	10.60%	22.40%	9.10%	9.70%	13.0%
Musculoskeletal problems (e.g., muscle or joint pain, cramps, weakness)	23	10	8	5	46
	16.20%	14.90%	12.10%	8.10%	12.8%
Other	4	2	1	5	12
	2.80%	3.00%	1.50%	8.10%	3.9%
SUM	329	176	138	122	765
	231.70%	262.70%	209.10%	196.80%	225.1%

Table 4
Health problems from being in a room after it has been cleaned with scented products
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	224	168	154	152	698
	19.7%	15.3%	14.0%	13.8%	15.7%
No	839	817	839	838	3333
	73.8%	74.4%	76.3%	76.2%	75.2%
Don't know/not sure	73	110	105	106	394
	6.4%	10.0%	9.5%	9.6%	8.9%
Decline to answer	1	3	2	4	10
	0.1%	0.3%	0.2%	0.4%	0.3%

4a. Which of the following health problems do you experience?

Base: Respondents who experienced below health problems from being in a room after it has been cleaned with scented products

	USA	AUS	UK	Sweden	
Total	224	168	154	152	1426
	100.00%	100.00%	100.00%	100.00%	32.2%
Migraine headaches	75	38	41	68	222
	33.50%	22.60%	26.60%	44.70%	31.9%
Asthma attacks	46	27	33	21	127
	20.50%	16.10%	21.40%	13.80%	18.0%
Neurological problems (e.g., dizziness, seizures, head pain, fainting, loss of coordination)	47	17	18	17	99
	21.00%	10.10%	11.70%	11.20%	13.5%
Respiratory problems (e.g., difficulty breathing, coughing, shortness of breath)	109	82	66	81	338
	48.70%	48.80%	42.90%	53.30%	48.4%
Skin problems (e.g., rashes, hives, red skin, tingling skin, dermatitis)	45	31	36	15	127
	20.10%	18.50%	23.40%	9.90%	18.0%
Cognitive problems (e.g., difficulties thinking, concentrating, or remembering)	31	20	16	18	85
	13.80%	11.90%	10.40%	11.80%	12.0%
Mucosal symptoms (e.g., watery or red eyes, nasal congestion, sneezing)	83	66	41	65	255
	37.10%	39.30%	26.60%	42.80%	36.5%
Immune system problems (e.g., swollen lymph glands, fever, fatigue)	23	18	9	4	54
	10.30%	10.70%	5.80%	2.60%	7.4%
Gastrointestinal problems (e.g., nausea, bloating, cramping, diarrhea)	32	16	11	11	70
	14.30%	9.50%	7.10%	7.20%	9.5%
Cardiovascular problems (e.g., fast or irregular heartbeat, jitteriness, chest discomfort)	26	14	11	5	56
	11.60%	8.30%	7.10%	3.30%	7.6%
Musculoskeletal problems (e.g., muscle or joint pain, cramps, weakness)	23	11	7	3	44
	10.30%	6.50%	4.50%	2.00%	5.8%
Other	4	7	9	4	24
	1.80%	4.20%	5.80%	2.60%	3.6%
SUM	544	347	298	312	1501
	242.90%	206.50%	193.50%	205.30%	212.1%

Table 5
Health problems from being near someone who is wearing a fragranced product
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	268	213	151	259	891
	23.6%	19.4%	13.7%	23.5%	20.1%
No	799	793	872	723	3187
	70.3%	72.2%	79.3%	65.7%	71.9%
Don't know/not sure	68	90	76	112	346
	6.0%	8.2%	6.9%	10.2%	7.8%
Decline to answer	2	2	1	6	11
	0.2%	0.2%	0.1%	0.5%	0.3%

5a. Which of the following health problems do you experience?

Base: Respondents who experienced below health problems from being near someone who is wearing a fragranced product

	USA	AUS	UK	Sweden	
Total	268	213	151	259	
	100.00%	100.00%	100.00%	100.00%	
Migraine headaches	96	54	37	127	314
	35.80%	25.40%	24.50%	49.00%	33.7%
Asthma attacks	44	37	25	36	142
	16.40%	17.40%	16.60%	13.90%	16.1%
Neurological problems (e.g., dizziness, seizures, head pain, fainting, loss of coordination)	41	26	13	28	108
	15.30%	12.20%	8.60%	10.80%	11.7%
Respiratory problems (e.g., difficulty breathing, coughing, shortness of breath)	118	91	46	154	409
	44.00%	42.70%	30.50%	59.50%	44.2%
Skin problems (e.g., rashes, hives, red skin, tingling skin, dermatitis)	39	19	26	18	102
	14.60%	8.90%	17.20%	6.90%	11.9%
Cognitive problems (e.g., difficulties thinking, concentrating, or remembering)	30	17	12	29	88
	11.20%	8.00%	7.90%	11.20%	9.6%
Mucosal symptoms (e.g., watery or red eyes, nasal congestion, sneezing)	98	87	51	86	322
	36.60%	40.80%	33.80%	33.20%	36.1%
Immune system problems (e.g., swollen lymph glands, fever, fatigue)	19	14	5	5	43
	7.10%	6.60%	3.30%	1.90%	4.7%
Gastrointestinal problems (e.g., nausea, bloating, cramping, diarrhea)	31	16	12	25	84
	11.60%	7.50%	7.90%	9.70%	9.2%
Cardiovascular problems (e.g., fast or irregular heartbeat, jitteriness, chest discomfort)	20	13	13	8	54
	7.50%	6.10%	8.60%	3.10%	6.3%
Musculoskeletal problems (e.g., muscle or joint pain, cramps, weakness)	17	13	11	6	47
	6.30%	6.10%	7.30%	2.30%	5.5%
Other	7	9	6	9	31
	2.60%	4.20%	4.00%	3.50%	3.6%

Table 6
Health problems from exposure to any other type of fragranced product
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	253	223	153	197	826
	22.3%	20.3%	13.9%	17.9%	18.6%
No	796	778	830	775	3179
	70.0%	70.9%	75.5%	70.5%	71.7%
Don't know/not sure	87	96	116	123	422
	7.7%	8.7%	10.5%	11.2%	9.5%
Decline to answer	1	1	1	5	8
	0.1%	0.1%	0.1%	0.5%	0.2%

6a. Which of the following health problems do you experience?

Base: Respondents who experienced below health problems from exposure to any type of fragranced product

	USA	AUS	UK	Sweden	
Total	253	223	153	197	
	100.00%	100.00%	100.00%	100.00%	
Migraine headaches	98	51	33	81	263
	38.70%	22.90%	21.60%	41.10%	31.1%
Asthma attacks	55	40	30	24	149
	21.70%	17.90%	19.60%	12.20%	17.9%
Neurological problems (e.g., dizziness, seizures, head pain, fainting, loss of coordination)	42	22	15	23	102
	16.60%	9.90%	9.80%	11.70%	12.0%
Respiratory problems (e.g., difficulty breathing, coughing, shortness of breath)	119	110	51	109	389
	47.00%	49.30%	33.30%	55.30%	46.2%
Skin problems (e.g., rashes, hives, red skin, tingling skin, dermatitis)	58	54	45	21	178
	22.90%	24.20%	29.40%	10.70%	21.8%
Cognitive problems (e.g., difficulties thinking, concentrating, or remembering)	31	19	13	16	79
	12.30%	8.50%	8.50%	8.10%	9.4%
Mucosal symptoms (e.g., watery or red eyes, nasal congestion, sneezing)	102	83	48	77	310
	40.30%	37.20%	31.40%	39.10%	37.0%
Immune system problems (e.g., swollen lymph glands, fever, fatigue)	24	13	11	3	51
	9.50%	5.80%	7.20%	1.50%	6.0%
Gastrointestinal problems (e.g., nausea, bloating, cramping, diarrhea)	33	14	11	17	75
	13.00%	6.30%	7.20%	8.60%	8.8%
Cardiovascular problems (e.g., fast or irregular heartbeat, jitteriness, chest discomfort)	18	13	13	10	54
	7.10%	5.80%	8.50%	5.10%	6.6%
Musculoskeletal problems (e.g., muscle or joint pain, cramps, weakness)	20	11	10	4	45
	7.90%	4.90%	6.50%	2.00%	5.3%
Other	3	8	10	6	27
	1.20%	3.60%	6.50%	3.00%	3.6%
SUM	603	438	290	391	
	238.30%	196.40%	189.50%	198.50%	

Table 7
Type of health problems from fragranced products
Base: fragrance sensitive group (above)

	USA	AUS	UK	Sweden	Sum/Ave%
Total	394	362	306	364	1426
	34.7%	33.0%	27.8%	33.1%	32.2%
Migraine headaches	179	110	92	177	558
	15.7%	10.0%	8.4%	16.1%	12.6%
Asthma attacks	91	83	75	61	310
	8.0%	7.6%	6.8%	5.5%	7.0%
Neurological problems (e.g., dizziness, seizures, head pain, fainting, loss of coordination)	82	49	41	55	227
	7.2%	4.5%	3.7%	5.0%	5.1%
Respiratory problems (e.g., difficulty breathing, coughing, shortness of breath)	211	183	128	220	742
	18.6%	16.7%	11.6%	20.0%	16.7%
Skin problems (e.g., rashes, hives, red skin, tingling skin, dermatitis)	121	104	108	71	404
	10.6%	9.5%	9.8%	6.5%	9.1%
Cognitive problems (e.g., difficulties thinking, concentrating, or remembering)	66	45	31	50	192
	5.8%	4.1%	2.8%	4.5%	4.3%
Mucosal symptoms (e.g., watery or red eyes, nasal congestion, sneezing)	184	154	101	149	588
	16.2%	14.0%	9.2%	13.5%	13.2%
Immune system problems (e.g., swollen lymph glands, fever, fatigue)	45	36	21	16	118
	4.0%	3.3%	1.9%	1.5%	2.7%
Gastrointestinal problems (e.g., nausea, bloating, cramping, diarrhea)	63	36	33	39	171
	5.5%	3.3%	3.0%	3.5%	3.8%
Cardiovascular problems (e.g., fast or irregular heartbeat, jitteriness, chest discomfort)	50	33	35	23	141
	4.4%	3.0%	3.2%	2.1%	3.2%
Musculoskeletal problems (e.g., muscle or joint pain, cramps, weakness)	43	29	22	17	111
	3.8%	2.6%	2.0%	1.5%	2.5%
Other	19	21	23	24	87
	1.7%	1.9%	2.1%	2.2%	2.0%

Table 8

Health effects so severe that they meet criteria of disability (per each country's disability legislation)

Base: fragrance sensitive group (above) / general population

USA: Do any of these health problems substantially limit one or more major life activities, such as seeing, hearing, eating, sleeping, walking, standing, lifting, bending, speaking, breathing, learning, reading, concentrating, thinking, communicating, or working, for you personally?

AU: Do any of these health problems mean a total or partial loss of bodily or mental functions, for you personally?

UK: Do any of these health problems cause a substantial, likely to recur, and adverse effect on your ability to carry out normal day-to-day activities?

SE: Do any of these health problems cause any physical, psychological or intellectual limitations on your functional ability?

references:

ADAAA 2008, DDA 1992, EA 2010, DA 2008

	USA	AUS	UK	Sweden	Sum/Ave%
Total (general population)	1137	1098	1100	1100	4435
Total (fragrance sensitive individuals)	394	362	306	364	1426
Yes	195	62	78	88	423
Yes (for general population)	17.2%	5.6%	7.1%	8.0%	9.5%
Yes (for fragrance sensitive individuals)	49.5%	17.1%	25.5%	24.2%	29.1%
No	175	269	195	217	856
	44.4%	74.3%	63.7%	59.6%	60.5%
Don't know/not sure	22	31	33	58	144
	5.6%	8.6%	10.8%	15.9%	10.2%
Decline to answer	2	-	-	1	3
	0.5%	-	-	0.3%	0.4%

Table 9
Have you ever been unable or reluctant to use the toilets in a public place, because of the presence of an air freshener, deodorizer, or scented product?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.00%	100.00%	100.00%	100.00%	100.0%
Yes	199	127	133	132	591
	17.50%	11.60%	12.10%	12.00%	13.3%
No	897	920	891	880	3588
	78.90%	83.80%	81.00%	80.00%	80.9%
Neutral/not sure	40	49	72	79	240
	3.50%	4.50%	6.50%	7.20%	5.4%
Decline to answer	1	2	4	9	16
	0.10%	0.20%	0.40%	0.80%	0.4%

Table 10
Have you ever been unable or reluctant to wash your hands with soap in a public place, because you know or suspect that the soap is fragranced?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.00%	100.00%	100.00%	100.00%	100.0%
Yes	160	113	113	74	460
	14.10%	10.30%	10.30%	6.70%	10.4%
No	924	911	899	954	3688
	81.30%	83.00%	81.70%	86.70%	83.2%
Neutral/not sure	50	72	82	66	270
	4.40%	6.60%	7.50%	6.00%	6.1%
Decline to answer	3	2	6	6	17
	0.30%	0.20%	0.50%	0.50%	0.4%

Table 11
If you enter a business, and you smell air fresheners or some fragranced product, do you want to leave as quickly as possible?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.00%	100.00%	100.00%	100.00%	100.0%
Yes	229	183	144	199	755
	20.10%	16.70%	13.10%	18.10%	17.0%
No	787	773	827	751	3138
	69.20%	70.40%	75.20%	68.30%	70.8%
Neutral/not sure	120	141	125	144	530
	10.60%	12.80%	11.40%	13.10%	12.0%
Decline to answer	1	1	4	6	12
	0.10%	0.10%	0.40%	0.50%	0.3%

Table 12
Have you ever been prevented from going to some place because you would be exposed to a fragrance product that would make you sick?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	258	165	148	139	710
	22.7%	15.0%	13.5%	12.6%	16.0%
No	819	832	873	852	3376
	72.0%	75.8%	79.4%	77.5%	76.2%
Neutral/not sure	58	99	76	103	336
	5.1%	9.0%	6.9%	9.4%	7.6%
Decline to answer	2	2	3	6	13
	0.2%	0.2%	0.3%	0.5%	0.3%

Table 13
Has exposure to fragranced products in your work environment caused you to become sick, lose work days, or lose a job?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total (general population)	1137	1098	1100	1100	4435
Total (fragrance sensitive individuals)	394	362	306	364	1426
Yes	172	85	69	74	400
(for general population)	15.1%	7.7%	6.3%	6.7%	9.0%
(for fragrance sensitive individuals)	43.7%	23.5%	22.5%	20.3%	27.5%
No	910	929	953	952	3744
	80.0%	84.6%	86.6%	86.5%	84.4%
Don't know/not sure	54	81	74	68	277
	4.7%	7.4%	6.7%	6.2%	6.3%
Decline to answer	1	3	4	6	14
	0.1%	0.3%	0.4%	0.5%	0.3%

population affected

3.02E+071.12E+062.23E+064.01E+053.39E+07

USA: estimated June 2016 adult population 199,864,867
AU: estimated June 2016 adult population 14,507,551
UK: estimated June 2016 adult population 35,395,854
SE: estimated June 2017 adult population 5,992,498

Table 14
Q20. How many days (8-hour equivalents) were you unable to work, over the last 12 months, due to fragranced product exposure?
Base: Respondents who become sick, lose work days, or lose a job, due to fragranced product exposure

	USA	AUS	UK	Sweden	
Total	172	85	69	74	400
	100.0%	100.0%	100.0%	100.0%	100.0%
1 to 2	61	42	38	45	186
for fragrance sensitive	35.5%	49.4%	55.1%	60.8%	50.2%
for general population	5.4%	3.8%	3.5%	4.1%	4.2%
lower bound = 1	61	42	38	45	186
mid-range = 1.5	92	63	57	68	279
upper bound = 2	122	84	76	90	372
3 to 6	70	23	16	19	128
for fragrance sensitive	40.7%	27.1%	23.2%	25.7%	29.2%
for general population	6.2%	2.1%	1.5%	1.7%	2.9%
lower bound = 3	210	69	48	57	384
mid-range = 4.5	315	104	72	86	576
upper bound = 6	420	138	96	114	768
7 to 14	25	14	10	6	55
for fragrance sensitive	14.5%	16.5%	14.5%	8.1%	13.4%
for general population	2.2%	1.3%	0.9%	0.5%	1.2%
lower bound = 7	175	98	70	42	385
mid-range = 10.5	263	147	105	63	578
upper bound = 14	350	196	140	84	770
15 to 30	11	1	4	1	17
for fragrance sensitive	6.4%	1.2%	5.8%	1.4%	3.7%
for general population	1.0%	0.1%	0.4%	0.1%	0.4%
lower bound = 15	165	15	60	15	255
mid-range = 22.5	248	23	90	23	383
upper bound = 30	330	30	120	30	510
Over 30	5	5	1	3	14
for fragrance sensitive	2.9%	5.9%	1.4%	4.1%	3.6%
for general population	0.4%	0.5%	0.1%	0.3%	0.3%
lower bound = 30	150	150	30	90	420
mid-range = 30	150	150	30	90	420
upper bound = 30	150	150	30	90	420
lower bound estimates	761	374	246	249	1630
mid-range estimates	1067	486	354	329	2235
upper bound estimates	1372	598	462	408	2840
lower bound estimates	1.34E+08	4.94E+06	7.92E+06	1.36E+06	1.48E+08
mid-range estimates	1.87E+08	6.42E+06	1.14E+07	1.79E+06	2.07E+08
upper bound estimates	2.41E+08	7.90E+06	1.49E+07	2.22E+06	2.66E+08
	6.2	5.7	5.1	4.5	5.1
			sum mid-range		2.07E+08
			hours per person		6.10E+00

Table 15

How much would you estimate that exposure to fragranced products, over the last 12 months, cost you personally in terms of lost income, medical expenses, and other costs?

Base: respondents who lost workdays or a job

	USA	AUS	UK	Sweden	Sum/Ave%
Total	172	85	69	74	400
	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Less than \$1,000 USD, \$1,000 AUD, £1,000 GBP, 10,000 SEK	59	32	34	37	162
	34.3%	37.6%	49.3%	50.0%	42.8%
\$1,000-\$10,000 USD, \$1,000-\$10,000 AUD, £1,000 GBP-£10,000 GBP, 10,000 SEK-100,000 SEK	62	22	16	14	114
	36.0%	25.9%	23.2%	18.9%	26.0%
More than \$10,000 USD, \$10,000 AUD, £10,000 GBP, 100,000 SEK	38	14	12	5	69
	22.1%	16.5%	17.4%	6.8%	15.7%
Don't know/not sure	12	13	7	16	48
	7.0%	15.3%	10.1%	21.6%	13.5%
Decline to answer	1	4	0	2	7
	0.6%	4.7%	-	2.7%	2.7%

Table 15a

Cost calculations

How much would you estimate that exposure to fragranced products, over the last 12 months, cost you personally in terms of lost income, medical expenses, and other costs?

Base: respondents who lost workdays or a job

data for cost calculations:

USA: estimated June 2016 adult population 199,864,867; 1 USD = 1 USD (June 1, 2016)

AU: estimated June 2016 adult population 14,507,551; exchange rate 0.7270 * AUD = USD (June 1, 2016)

UK: estimated June 2016 adult population 35,395,854; exchange rate 1.4446 * GBP = USD (June 1, 2016)

SE: estimated June 2017 adult population 5,992,498; exchange rate 0.1135 * SEK = USD (June 1, 2016)

references: USCB 2018, ABS 2018, ONS 2018, SCB 2018; www.imf.org (for exchange rates)

	USA	AUS	UK	Sweden	Sum/Ave%
Total					
Less than \$1,000 USD, \$1,000 AUD, £1,000 GBP, 10,000 SEK					
lower estimates (\$1 USD, \$1 AUD, £1 BBP, 1 SEK)	1.04E+07	3.07E+05	1.58E+06	2.29E+04	1.23E+07
mid-range estimates (\$500 USD, \$500 AUD, £500 BBP, 5,000 SEK)	5.19E+09	1.54E+08	7.90E+08	1.14E+08	6.24E+09
upper estimates (\$999 USD, \$999 AUD, £999 BBP, 9,999 SEK)	1.04E+10	3.07E+08	1.58E+09	2.29E+08	1.25E+10
\$1,000-\$10,000 USD, \$1,000-\$10,000 AUD, £1,000 GBP-£10,000 GBP, 10,000 SEK-100,000 SEK					
lower estimates (\$1,000 USD, \$1,000 AUD, £1,000 GBP, 10,000 SEK)	1.09E+10	2.11E+08	7.44E+08	8.66E+07	1.19E+10
mid-range estimates (\$5,500 USD, \$5,500 AUD, £5,500 GBP, 55,000 SEK)	5.99E+10	1.16E+09	4.09E+09	4.76E+08	6.57E+10
upper estimates (\$10,000 USD, \$10,000 AUD, £10,000 BBP, 100,000 SEK)	1.09E+11	2.11E+09	7.44E+09	8.66E+08	1.19E+11
More than \$10,000 USD, \$10,000 AUD, £10,000 GBP, 100,000 SEK					
lower estimates (\$10,000 USD, \$10,000 AUD, £10,000 BBP, 100,000 SEK)	6.68E+10	1.34E+09	5.58E+09	3.09E+08	7.40E+10
mid-range estimates (\$10,000 USD, \$10,000 AUD, £10,000 BBP, 100,000 SEK)	6.68E+10	1.34E+09	5.58E+09	3.09E+08	7.40E+10
upper estimates (\$10,000 USD, \$10,000 AUD, £10,000 BBP, 100,000 SEK)	6.68E+10	1.34E+09	5.58E+09	3.22E+08	7.40E+10
Don't know/not sure					
Decline to answer					
lower bound estimates	7.77E+10	1.56E+09	6.32E+09	3.96E+08	8.60E+10
mid-range estimates	1.32E+11	2.66E+09	1.05E+10	9.00E+08	1.46E+11
upper bound estimates	1.86E+11	3.77E+09	1.46E+10	1.42E+09	2.06E+11
sum mid-range					1.46E+11
cost per person					4.30E+03

Table 16
Would you be supportive of a fragrance-free policy in the workplace?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	604	470	492	558	2124
	53.1%	42.8%	44.7%	50.7%	47.8%
No	224	244	256	180	904
	19.7%	22.2%	23.3%	16.4%	20.4%
Neutral/not sure	304	381	344	353	1382
	26.7%	34.7%	31.3%	32.1%	31.2%
Decline to answer	5	3	8	9	25
	0.4%	0.3%	0.7%	0.8%	0.6%

Table 17
Would you prefer that health care facilities and health care professionals be fragrance-free?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Yes	623	474	476	705	2278
	54.8%	43.2%	43.3%	64.1%	51.4%
No	255	277	294	154	980
	22.4%	25.2%	26.7%	14.0%	22.1%
Neutral/not sure	254	342	324	234	1154
	22.3%	31.1%	29.5%	21.3%	26.1%
Decline to answer	5	5	6	7	23
	0.4%	0.5%	0.5%	0.6%	0.5%

Table 18
Staying In A Hotel With / Without Fragranced Air, Which Would You Choose?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Fragranced air	316	249	309	108	982
	27.8%	22.7%	28.1%	9.8%	22.1%
Not fragranced air	632	610	592	855	2689
	55.6%	55.6%	53.8%	77.7%	60.7%
Neutral/not sure	185	237	197	132	751
	16.3%	21.6%	17.9%	12.0%	17.0%
Decline to answer	4	2	2	5	13
	0.4%	0.2%	0.2%	0.5%	0.3%

Table 19
Flying On An Airplane That Pumped / Did Not Pump Scented Air Throughout The Passenger Cabin, Which Would You Choose?
Base: all respondents

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Scented air	268	179	202	66	715
	23.6%	16.3%	18.4%	6.0%	16.1%
Not scented air	673	634	681	882	2870
	59.2%	57.7%	61.9%	80.2%	64.8%
Neutral/not sure	189	283	214	146	832
	16.6%	25.8%	19.5%	13.3%	18.8%
Decline to answer	7	2	3	6	18
	0.6%	0.2%	0.3%	0.5%	0.4%

Table 20
Demographics - General Population

	USA	AUS	UK	Sweden	Sum/Ave%
Total	1137	1098	1100	1100	4435
	100.0%	100.0%	100.0%	100.0%	100.0%
Male/Female					
All Males	525	543	550	550	2168
	46.2%	49.5%	50.0%	50.0%	48.9%
All Females	612	555	550	550	2267
	53.8%	50.5%	50.0%	50.0%	51.1%
Gender vs Age					
Male 18-24	47	70	83	83	283
	4.1%	6.4%	7.5%	7.5%	6.4%
Male 25-34	130	109	102	102	443
	11.4%	9.9%	9.3%	9.3%	10.0%
Male 35-44	136	119	107	107	469
	12.0%	10.8%	9.7%	9.7%	10.6%
Male 45-54	108	126	135	135	504
	9.5%	11.5%	12.3%	12.3%	11.4%
Male 55-65	104	119	123	123	469
	9.1%	10.8%	11.2%	11.2%	10.6%
Female 18-24	78	86	81	81	326
	6.9%	7.8%	7.4%	7.4%	7.4%
Female 25-34	135	130	129	129	523
	11.9%	11.8%	11.7%	11.7%	11.8%
Female 35-44	155	137	135	135	562
	13.6%	12.5%	12.3%	12.3%	12.7%
Female 45-54	144	115	108	108	475
	12.7%	10.5%	9.8%	9.8%	10.7%
Female 55-65	100	87	97	97	381
	8.8%	7.9%	8.8%	8.8%	8.6%

Table 21
Demographics - Fragrance Sensitive

	USA	AUS	UK	Sweden	Sum/Ave%
Total	394	362	306	364	1426
	100.00%	100.00%	100.00%	100.00%	100.0%
Male/Female					
All Males	173	144	141	131	589
	43.90%	39.80%	46.10%	36.00%	41.5%
All Females	221	218	165	233	837
	56.10%	60.20%	53.90%	64.00%	58.6%
Gender vs Age					
Male 18-24	14	17	20	19	70
	3.60%	4.70%	6.50%	5.20%	5.0%
Male 25-34	47	42	39	25	153
	11.90%	11.60%	12.70%	6.90%	10.8%
Male 35-44	55	28	30	33	146
	14.00%	7.70%	9.80%	9.10%	10.2%
Male 45-54	32	34	27	26	119
	8.10%	9.40%	8.80%	7.10%	8.4%
Male 55-65	25	23	25	28	101
	6.30%	6.40%	8.20%	7.70%	7.2%
Female 18-24	20	27	22	20	89
	5.10%	7.50%	7.20%	5.50%	6.3%
Female 25-34	50	43	41	51	185
	12.70%	11.90%	13.40%	14.00%	13.0%
Female 35-44	61	55	43	48	207
	15.50%	15.20%	14.10%	13.20%	14.5%
Female 45-54	53	49	33	60	195
	13.50%	13.50%	10.80%	16.50%	13.6%
Female 55-65	37	44	26	54	161
	9.40%	12.20%	8.50%	14.80%	11.2%