

Supplemental Materials

Table 1

Examples of literature with brief summary of results on volatile organic compound emissions from flowers.

Reference	Plant species studied	Main result
Yamaguchi and Shibamoto, 1980	Chestnut	Aromatic alcohols, monoterpene alcohols, aliphatic compounds identified in chestnut flower oil.
Loughrin et al., 1990	Apple (cv. Red Delicious)	Volatiles emitted from inflorescences of apple (cv. Red Delicious): cis-3-Hexenyl acetate, cis-3-Hexenyl-1-O1, Linalool, Benzyl acetate, Benzyl alcohol, 2-Phenethyl alcohol. With Benzyl alcohol as dominant emitted compound.
Robertson et al., 1993	Hawthorn (crataegus monogyna)	Dominant volatile compounds released by excised flowers: 3-methyl-1-butanol, 2-butanone, and benzaldehyde.
MacTavish et al., 2000	Brown Boronia Flowers	Dominant headspace volatiles emitted from flowers (% of each volatile in headspace per flower): a-pinene(30.4%), caryophyllene(10.5%), b-ionone(39.5%) and b-pinene(2.7%).
Mena Granero et al., 2005	Zucchini Flowers	Indole, linalool, eucalyptol, and ocimene were found in zucchini flowers with concentrations between 3 and 25 mg kg ⁻¹ .
Knudsen et al., 2006	991 species of flowering plants	Most common compounds in floral scent occurring in more than 50% of the families: limonene, (E)-b-ocimene, myrcene, linalool, a-and b-pinene, benzaldehyde, methyl salicylate, benzyl alcohol, 2-phenyl ethanol, caryophyllene and 6-methyl-5-hepten-2-one.
Johne et al., 2006	Aesculus hippocastanum (horse chestnut)	Compounds emitted by aesculus hippocastanum flowers: benzaldehyde, 1,8-Cineole, (E/Z)-Linalool oxide (furanoid), 2-Phenylethanol, Decanal, Tridecane, (E)-β-Caryophyllene.
Li et al., 2006	Syringa oblata	Most abundant volatiles released from fresh flowers of <i>S. oblata</i> : lilac aldehyde, lilac alcohol, α-pinene, sabinene, β-pinene, myrcene, d-limonene, eucalyptol, cis-ocimene, benzaldehyde, terpinolene, linalool, benzene acetaldehyde, α-terpineol, p-methoxyanisole, p-anisaldehyde, (Z,E)-α-farnesene and (E,E)-α-farnesene.
Zhuang et al., 2008	Dogwood	Major volatile compounds detected from dogwood inflorescence: 3-formylpyridine, E-Beta-ocimene, S-linalool, nonanal, ketoisophorone, and decanal.
Martin et al., 2009	Grapevine (<i>V. vinifera</i> L. cv. Cabernet Sauvignon)	Volatiles emitted to a maximum of 1,047pg/flower/h during bloom.

Table 2

City of Boulder municipal tree survey data (adapted from City of Boulder (2005) Municipal Tree Resource Analysis (available at: www.bouldercolorado.gov))

Species	No. of trees	% of total trees	Leaf area (ft ²)	% of total leaf area	Canopy cover (ft ²)	% of total canopy cover	IV	% of total trees	flowering, insect-pollinated, non-catkin producing	% of flowering trees
Green ash	4,901	13.8	11,494,500	11.8	2,707,184	13.1	12.9		no	
Siberian elm	3,004	8.5	16,717,420	17.2	2,470,939	12.0	12.5		no	
Cottonwood	2,626	7.4	10,040,710	10.3	2,229,918	10.8	9.5		no	
Honeylocust	2,318	6.5	6,161,348	6.3	1,603,513	7.8	6.9	6.5	yes	26.6
Silver maple	2,145	6.0	18,858,820	19.4	3,606,471	17.5	14.3		no	
Crabapple	1,693	4.8	1,356,524	1.4	628,580	3.0	3.1	4.8	yes	19.7
Blue spruce	1,421	4.0	1,870,111	1.9	375,857	1.8	2.6		no	
Austrian pine	1,317	3.7	1,374,887	1.4	336,635	1.6	2.3		no	
Juniper	1,113	3.1	423,684	0.4	120,198	0.6	1.4		no	
Russian olive	1,091	3.1	830,574	0.9	403,715	2.0	2.0	3.1	yes	12.7
Norway maple	1,052	3.0	1,727,459	1.8	393,909	1.9	2.2	3.0	yes	12.3
Willow	830	2.3	5,968,116	6.1	1,171,521	5.7	4.7	2.3	yes	9.4
Littleleaf linden	731	2.1	974,054	1.0	215,424	1.0	1.4	2.1	yes	8.6
White ash	705	2.0	1,328,841	1.4	248,258	1.2	1.5		no	
Pinyon pine	647	1.8	184,549	0.2	62,389	0.3	0.8		no	
Boxelder	620	1.7	1,747,805	1.8	413,810	2.0	1.9		no	
Cockspur hawthorn	509	1.4	100,602	0.1	40,544	0.2	0.6	1.4	yes	5.7
Sugar maple	483	1.4	1,477,923	1.5	362,737	1.8	1.5		no	
Quaking aspen	478	1.3	470,618	0.5	91,949	0.4	0.8		no	
Red oak	447	1.3	1,620,053	1.7	335,095	1.6	1.5		no	
Hackberry	434	1.2	691,721	0.7	142,355	0.7	0.9		no	
American linden	428	1.2	1,341,177	1.4	187,760	0.9	1.2	1.2	yes	4.9
Red maple	414	1.2	198,722	0.2	59,668	0.3	0.6		no	
Amur maple	409	1.2	99,876	0.1	45,643	0.2	0.5		no	
TOTAL	29,816	84.0	87,060,088	89.4	18,254,070	88.5	87.3	24.4		100.0