Complete Study Data: Houseplants and Air Purification

Trichloroethylene (TCE) Removal by Houseplants (24-Hour Exposure)

Plant	Initial (p/m)	Final (p/m)	Percent Removed
Peace Lily	0.126	0.097	23.0%
Warneckei	0.114	0.091	20.2%
Janet Craig	0.321	0.265	17.5%
Mother-in-Law's Tongue	0.269	0.233	13.4%
Marginata	0.136	0.118	13.2%
English Ivy	0.174	0.155	10.9%
Golden Pothos	0.207	0.188	9.2%
Soil Control	0.141	0.128	9.2%
Leak Test Control	0.121	0.120	<1.0%

Benzene Removal by Houseplants (24-Hour Exposure)

Plant	Initial (p/m)	Final (p/m)	Percent Removed
English Ivy	0.235	0.024	89.8%
Peace Lily	0.166	0.034	79.5%
Marginata	0.176	0.037	79.0%
Janet Craig	0.432	0.097	77.6%
Golden Pothos	0.127	0.034	73.2%
Warneckei	0.182	0.055	70.0%
Mother-in-Law's Tongue	0.156	0.074	52.6%
Chinese Evergreen	0.204	0.107	47.6%
Soil Control	0.119	0.095	20.1%
Leak Test Control	0.171	0.162	5.3%

Formaldehyde Removal by Houseplants (24-Hour Exposure)

Plant	Total Leaf Area (cm^2)	Micrograms of Formaldehyde Removed
Banana	1,000	11,700
Mother-in-Law's Tongue	2,871	31,294
English Ivy	985	9,653
Bamboo Palm	14,205	76,707
Heart Leaf Philodendron	1,696	8,480
Elephant Ear Philodendron	2,323	9,989

Green Spider Plant	2,471	10,378
Golden Pothos	2,723	8,986
Janet Craig	15,275	48,880
Marginata	7,581	20,469
Peace Lily	8,509	16,167
Lacy Tree Philodendron	2,373	8,656
Chinese Evergreen	1,894	4,382
Aloe Vera	713	1,555

Chemicals Removed by Household Plants (24-Hour Exposure)

Plant	Formaldehyde (%) Removed	Benzene (%) Removed	Trichloroethylene (TCE) (%) Removed
Mass Cane	70	21.4	12.5
Pot Mum	61	53	41.2
Gerbera Daisy	50	67.7	35
Warneckei	50	52	10
Ficus	47.4	30	10.5
Leak Test Control	2.8	5	10

Benzene Removal by Houseplants with Soil Conditions (24-Hour Exposure)

Plant	Initial (p/m)	Final (p/m)	Percent Removed
Golden Pothos	0.369	0.077	79.1%
Marginata	0.343	0.144	58.0%
Janet Craig	0.321	0.176	45.2%

Benzene Removal and Soil Bacterial Counts (Chinese Evergreen Exposure)

Initial Exposure	Percent Removed	Bacterial Count (cfu/g)
47.6%	3.1 x 10	
After 6 weeks	85.8%	5.1 x 10