ROOTING RESPONSE OF DRACAENA SPP.

The results of a preliminary study showed that species of Dracaena differs in their ease of rooting. Four-inch terminal cuttings of 7 selected species of Dracaena were placed under 4 different misting regimes. Cuttings were placed in flats containing vermiculite and rooting was evaluated after 10 weeks.

Mist levels had very little effect on rooting percentage. However, the 12 second misting resulted in significantly heavier rooting than either 6 or 24 seconds. This would indicate that this level of mist (12 seconds every 6 minutes) was best for most of the Dracaena species tested during the cooler winter months at the Manoa Campus.

All cuttings of most species tested showed some rooting after 10 weeks. The poorest rooting was found on *D*. X maneffiana with almost 30 percent of the cuttings still unrooted and those that had rooted were in the low to medium rooted class. Best rooting was noted on

Species	Mist (sec./6 min.)				Spacias
	6	12	18	24	Mean
Rooting percentage					
D. deremensis					
'Compacta'	100	100	100	100	100 a ¹
D. deremensis					
'Warneckei'	100	100	100	100	100 a
D. marginata	100	100	100	100	100 a
D. concinna					
'Tricolor'	100	100	100	100	100 a
D. fragrans					
'Massangeana'	92	100	92	92	94 ab
D. fragrans	71	100	86	100	89 b
D. X maneffiana	60	70	90	70	72 c
Mean	89.0 a	95.7 a	95.4 a	94.6 a	
Rooting Index					
D. deremensis					
'Compacta'	100	97	94	91	95.5 a
D. deremensis					
'Warneckei'	82	94	92	90	89.5 a
D. marginata	73	77	82	77	77.2 b
D. concinna					
'Tricolor'	71	70	72	70	70.8 bc
D. fragrans					
massangeana	62	77	68	67	68.5 c
D. fragrans	63	89	74	69	73.8 bc
D. X maneffiana	52	54	58	54	54.5 d
Mean	71.9 c	79.7 a	77.1 ab	74.0 bc	

Table 1. The effect of mist levels on rooting of cuttings of Dracaena spp. after 10 weeks.

¹Treatment means with different letters indicate significance at the 5% level.

D. 'Compacta' with most cuttings rating heavily rooted. *D.* 'Warneckei' was close behind.

There appeared to be a correlation between the size of the cutting and the degree of rooting. Those cuttings with a larger diameter stem seemed to produce heavier rooting than those with smaller diameters. The only species where any problem was noted was *D. fragrans* when rooting occurred on younger leaves in the center rosette. However, only 5 percent of the cuttings rotted entirely with the remainder showing production of new leaves.

While this is only a preliminary trial, it does provide a good basis for further research with Dracaena species.

> Fred D. Rauch Associate Specialist in Horticulture