

Vase Life Study Results of Roses, Alstroemeria, and Chrysanthemum using FloraLife® Flower Food

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Background: In 2022, the cut flower market was worth 36.4 billion USD. Roses, alstroemeria, and chrysanthemums were among the top 10 most popular cut flower. Many factors contribute to a flower's vase life including variety, growing conditions, and postharvest treatments. With this high value market, attention to the controllable postharvest treatment is crucial. Flower food is the last stage of cut flower care, and studies show flower food encourages proper flower opening and coloration with extended vase life through hydration and nutrition.

Objective: These experiments were conducted to observe the effect that FloraLife® Flower Food had on the vase life of roses, alstroemeria, and chrysanthemum flower crops. Data presented was averaged over 10 experiments.

Results:

Table 1. Vase life (days) of crops using FloraLife Crystal Clear® Powder.

Crop	Vase Life in Water (Days)	Vase Life in Flower Food (Days)	% Vase Life Increase with Flower Food
`Freedom' Rose	9.2	12.3	34%
'Sweet Akito' Rose	7.0	12.2	74%
`Anastasia' Chrysanthemum	19.2	20.1	5%
Yellow Spider Chrysanthemum	18.8	25.4	35%

Table 2. Vase life (days) of crops using FloraLife Crystal Clear® Liquid.

Сгор	Vase Life in Water (Days)	Vase Life in Flower Food (Days)	% Vase Life Increase with Flower Food
`Freedom' Rose	6.5	13.0	100%
'Hot Princess' Rose	5.2	12.3	137%
`Amposta' Alstroemeria	18.4	22.1	20%
Lavender Spider Chrysanthemum	13.6	23.3	71%

Table 3. Vase life (days) of crops using FloraLife® Express 300 Powder.

Crop	Vase Life in Water (Days)	Vase Life in Flower Food (Days)	% Vase Life Increase with Flower Food
'Freedom' Rose	8.1	10.5	30%
'Orange Crush' Rose	6.5	10.8	66%
`Fuji' Alstroemeria	12.5	13.8	10%
Cremon Chrysanthemum	10.6	21.3	101%

Table 4. Vase life (days) of crops using FloraLife® Express 300 Liquid.

Сгор	Vase Life in Water (Days)	Vase Life in Flower Food (Days)	% Vase Life Increase with Flower Food
`Freedom' Rose	6.5	14.0	115%
`Hot Princess' Rose	5.2	13.9	167%
`Amposta' Alstroemeria	18.4	22.6	23%
Lavender Spider Chrysanthemum	13.6	24.0	76%





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Photos on Vase Life Day 7:







Liquid FloraLife Crystal Clear®



Liquid FloraLife® Express 300

Conclusions: On average, FloraLife® Flower Food increased the vase life of roses by 90%, the vase life of alstroemeria by 18%, and the vase life of chrysanthemums by 58%. This research confirms that FloraLife® Flower Food can extend the life of cut flowers.

