

CALCULATING VOLUME FOR GREENHOUSE SMOKE BOMBS

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During the past growing season, damage to crops as well as poor control with fumigants due to either improper use or faulty calculations has been observed. Often the volume of air in a greenhouse is improperly calculated and crops are burned or eaten alive by insect pests.

Smoke fumigators are easy and fast to use. Each fumigator is made to treat a given number of cubic feet. Select the proper size to match the cubic foot content of your greenhouse. Generally, fumigator products are available to cover 2,000 cubic feet to 20,000 cubic feet. It is extremely important to read the label on the product to determine the volume of air the pesticide will treat.

The volume of a greenhouse is calculated by multiplying the length times the width times the average height.

**GREENHOUSE VOLUME = Length x Width x Average
Height**

Average height for uneven and even span houses is height to the eave plus half the height from the eave to the ridge.

Average height for hoop houses is height to the eave (if there is an eave) plus $\frac{3}{4}$ of the height from the eave to the ridge.

Important points to follow:

1. Use only when the foliage is dry. Moist leaves and flowers tend to burn more readily.
2. Always have an observer present in case of an accident.
3. Calculate volume of the house. Determine the number of cans required to treat this volume.
4. Shake cans to fluff contents before opening
5. Place an igniter in each can.
6. Place cans throughout the house for clay pots before beginning to light.
7. Light sparklers or igniters with a propane torch.
8. Remove spent cans first thing the next morning.

Pesticides formulated for smoke bombs include the following:

FORMULATION

CONTROL

- | | |
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| 1. Dithio (plantfume 103) | General insect control |
| 2. D.D.V.P. (Vapona) | Aphids and white fly |
| 3. Exotherm Termil | Botrytis |
| 4. Lindane (Aphid-Smoke) | Aphids and white fly |
| 5. Nicotine | General insect control |
| 6. Parathion | General insect control |
| 7. Tedion-Dithio | Aphids, mealy bugs, Red spider and white fly |
| 8. Thiodan | Aphids and cyclamen mites |