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Abstract: Cindy has created a very useful list of four programs to meet the needs of rosarians at all levels.

1. For Rookies, Small Gardens or Small Budgets
2. For Intermediate Level Rose Growers or Medium Sized Budgets
3. For Experienced Rose Growers and Those Who Want the Best (and most expensive) Products Available
4. For Those Who Prefer Organic Products

This is an article worth reading and publishing locally.

A Pesticide Program to Meet Every Need

By Cindy Dale, C.R.

As a Consulting Rosarian, I am frequently asked to design a spray program to prevent or deal with disease and insect infestations. The people doing the asking are usually novice to intermediate level rose growers. They don't need the super expensive products that expert or exhibition rosarians use so I made a trip to my local garden centers to see what products that would get the job done at a reasonable price. These products and their sources are listed on the first page.

Having experienced some success at the beginning level or finding that the cheaper, (i.e. more weakly concentrated) products aren't meeting their needs, some rosarians will want to move to a more sophisticated spray regimen. These chemicals and sources for them are listed on the second page.

Avid rosarians, exhibitors, or those who just want to use the strongest and best chemicals available will find their products on the third page.

I certainly did not want to ignore the growing group of rose growers who choose not to use chemicals. Organic products or home formulations are included on the last page.

Hopefully, such specifics as to products, sources, and frequency of use for four different types of spray programs will lead to decreased levels of anxiety and frustration, especially in newer rose enthusiasts, and to increased disease and insect control which fosters more enjoyment of our national floral emblem.

For Rookies, Small Gardens, or Small Budgets

1. **Choose TWO systemic fungicides for blackspot to alternate every 1-2 weeks:**
 - a. *Ortho Rose Pride Disease Control* (Triforine) – available at Home Depot.
 - b. *Fertilome Systemic Fungicide* (1.55% Propiconazole) – available at Country Gardens, also known as *Infuse* by Bonide at Pike's.
 - c. *Bayer Advanced Disease Control* (Tebuconazole) – available at Pike's.
2. **Choose ONE of the following contact fungicides for blackspot to add to every tank with your choice from above:**
 - a. *Daconil* - available at most garden centers. Can burn foliage if sprayed when too hot.
 - b. *Manzate* powder OR *Mancozeb* liquid – available from H.L. Shealy Co. in Gilbert, SC (ph: 803-892-2651). Cheaper than Rosemania.com
 - c. *Pentathalon* (same as *Manzate*) – from Rosemania.com. Free shipping.
3. Add a few drops of dish detergent to every spray tank as a spreader/sticker.

4. Spray under sides of leaves with powerful blast of water when spider mite damage is seen. Use the same thing to blast aphids off of stems and buds.
5. For insect infestations that cannot be tolerated use *Bayer Advanced Rose & Flower Insect Killer* (Imidacloprid) or *Sevin* – available at Home Depot.

For Intermediate Level Rose Growers or Medium Sized Budgets:

1. **Add Indicate 5 as a pH buffer spreader/sticker to every spray tank til water turns pink before adding anything else.**
2. **Choose TWO of the following systemics to alternate every 1-2 weeks:**
 - a. *Honor Guard* (Propiconazole), (generic form of *Banner Maxx*) – from Rosemania or H.L. Shealy Co. [see first page for contact info].
 - b. *Cleary's 3336* – from same sources as above.
 - c. *Immunox* – available at Rosemania and many garden centers.
3. **Choose ONE of the following contacts to add to every tank with your choice from above:**
 - a. *Daconil Ultrex*
 - b. *Manzate* powder OR *Mancozeb* liquid.
 - c. *Pentathalon* (same as *Manzate*) – from Rosemania.com.
4. Add **Response** seaweed extract to make foliage a rich green color to every spray tank. Available from Rosemania, not at Shealy.
5. If spider mite damage is seen use **Avid** every 3 days x 3 on leaf tops AND bottoms. Add **Stirrup-M** mite attractant if desired to make the Avid more effective. Available from Rosemania.
6. Use **Merit 75W** for a general insecticide when there is an insect problem that cannot be tolerated. **Orthene** can be misted over the tops of the blooms only (not the foliage) every 3 days during the height of thrip season or before a show but stay extra vigilant for the signs of spider mites if you do this. Available at most garden centers.

**For Experienced Rose Growers and
Those Who Want the Best (and most expensive) Products Available:**

1. Add **Indicate 5** as a pH buffer, spreader/sticker to every spray tank til water turns pink before adding anything else.
2. **Choose TWO of the following systemics to alternate every 1-2 weeks:**
 - a. *Banner Maxx (Honor Guard generic)*
 - b. *Compass* - from Rosemania or H.L. Shealy Co. [see first page for contact info].
 - c. *Cleary's 3336*
3. **Choose ONE of the following contacts to add to every tank with your choice from above:**
 - a. *Daconil Ultrex* – from Rosemania or H.L. Shealy Co.
 - b. *Manzate* powder or *Mancozeb* liquid
 - c. *Pentathalon* (same as *Manzate*)
4. Add **Response** seaweed extract to make foliage a rich green color to every spray tank.
5. If spider mite damage is seen use **Floramite, Forbid, or Shuttle**. Add **Stirrup-M** as a mite attractant if desired to make the miticide more effective. Available from Rosemania or H.L. Shealy Co.
6. If the conditions are right for powdery mildew switch your systemic fungicide to **Eagle 20 EW** to prevent infection. If p. mildew is already present smother the spores on the affected leaves only with **E-Rase** (made from Jojoba oil).
7. Use **Merit 75W** for a general insecticide when there is an insect problem that cannot be tolerated. **Orthene** can be misted over the tops of the blooms only (not the foliage) every 3 days during the height of thrip season or before a show but stay extra vigilant for the signs of spider mites if you do this. Available at most garden centers.

For Those Who Prefer Organic Products

1. **Baking Soda** (sodium bicarbonate) **Spray**: make your own by adding the following to 1 gallon of water: 1 tsp dish detergent (not antibacterial), 1 tsp white vinegar, 2 Tbsp canola oil, and 1 Tbsp baking soda. The bicarbonate and vinegar create a pH on the leaves that the fungal spores supposedly cannot live in, the oil suffocates them, and the detergent acts as a spreader/sticker. **Remedy** is a commercial potassium bicarbonate solution that is available in many garden centers.
2. **Vinegar Spray**: 2 Tbsp white or cider vinegar in 1 gallon of water.
3. **Milk Spray**: 1 C. milk per 9 C. water. Milk supposedly kills fungal spores and stimulates plants to become more disease resistant.

4. **Rose Defense** (by Green Light): contains Neem oil. Use 2 Tbsp per gallon of water. Neem extract kills insects and the oil suffocates fungal spores.
5. **Safer Garden Fungicide/ 3 in 1 Garden Spray**: 4 Tbsp per gallon of water. Ultrafine sulfur kills fungal spores.
6. **Kop-R or Liqui-Cop Spray**: 3 Tbsp per gallon. Copper kills fungal spores.
7. **PyGonic** and other preparations made with pyrethrum (from chrysanthemums). General purpose insecticide.
8. **Safer Garden Soap**: very safe product from the salts of fatty acids. Toxic to soft-bodied insects that come into contact with the wet spray. Breaks down quickly without residue.
9. **Sunspray Oil**: suffocates insects and their eggs. Repels insects for about a week. Won't harm plants, wildlife, or the environment. Can burn foliage in hot weather.
10. **Beneficial insects**: green lacewings, ladybugs, and trichogramma parasites can be purchased and brought into the garden to eat the insects we don't want.
11. **Anti-transpirants** (such as *Wilt Pruf* or *Cloud Cover*): originally developed to help roses withstand dehydration and frost damage. Now found to reduce fungal infections by placing a film between the spore and the plant cells. Must reapply as new growth occurs.