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## ANSWERS

1. Nitrogen - Phosphorus - Potassium.
2. 10% Nitrogen - 6% Phosphoric Acid - 4% Potash.
3. 20%.
4. 100 pounds, 200 pounds.
5. 33½%.
6. 20%.
7. Phenyl - Mercuric - Acetate Solution.
8. None.
9. 100 pounds.
10. 60%.
11. 38%.
12. Four (4) yards.
13. 18½ Truckloads (between 18 or 19).
14. 2,800 pounds.
15. More sand in a yard of sand.
16. 730 yards.
17. 43,560 square feet (or 44,000 sq. ft.).
18. 3½ to 4 acres.
19. 7.48 (or 7½ gallons).
20. 27,000 gallons, to cover an acre one inch deep.
21. Plastic piping.
22. 10 times.
23. Four (4) times more water.
24. Approximately 43 lbs. per sq. in.
25. 30 lbs.
26. One cubic foot holds 7½ gallons.

## WINTER CARE FOR ROSES

Our modern day roses are sensitive to winter cold, but according to James A. Fizzell, University of Illinois Horticulturist, rapid temperature changes, especially in late fall and early spring cause most of the damage to roses in Northeastern Illinois. For this reason, winter protection is usually necessary.

Hilling the plants with soil mounds of 10 to 12 inches is the most commonly used protection. If the roses are closely spaced and this method is used, soil should be brought in from outside the rose bed. If soil is scraped up from surrounding plants, injury can occur to the shallow roots of the roses.

In addition to the soil mounds, you can put bushel baskets over the roses. All leaves should be stripped off and the plants sprayed with a fungicide before covering with the baskets. The baskets protect the plants from drying winds and help level off sudden temperature changes. Since they are not air tight, they allow for ventilation and reduce the possibilities of fungus disease.

When roses are hilled with soil, the soil mound should be allowed to freeze solid and then a layer of mulch put on top to keep the soil frozen and prevent injury from freezing and thawing. Climbing roses can be over wintered pretty successfully by removing the plants from their trellis, laying it along the ground and mounding soil over the whole plants. Don't forget the layer of mulch after the soil is frozen.

Rose cones are becoming increasingly popular. Buy cones with a vent in the top or punch some holes near the top to let out hot air. Mulching inside the cone will increase the insulating value. Keep the cone in place with a brick on top.

For those who have tree roses, a bit more care and expertise is needed. One method is to drive three stakes around the plant, mound soil at the bottom, wrap the whole plant with insulating material, such as straw, and then put tar paper around the outside with a cover on top. Or, lift one side of the root system with a shovel, lay the entire plant on the ground and cover with soil.

Light pruning can be done in the fall, but only to reduce the size of the plant if using bushel baskets or rose cones. In spring remove all dead cones and weak branches.

James A. Fizzell  
Senior Extension Advisor, Horticulture

# Schroeder's Nursery, Inc.



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