

TREE CARE (from page 14)

will be up to two percent or 20,000 ppm.

The improved formulation of this product is unique to the widely acclaimed acid solubilized benomyl fungicide. Fungi-Sol is practically neutral (pH 6.8) as compared to the highly acid pH 1-4 range previously reported.

In another extension of the presently approved method, the non-pressurized capsules are replaced by a manifold system of plastic tubing fed and pressurized by a pressure sprayer containing benomyl suspension. Field test experience in 1973 pointed to the fact that lower pressure (10 psi) permitted greater amounts of the fluid to enter the tree than did higher pressure. While the manifold system is not registered yet, it too holds promise for the future.

We believe the Mauget feeder tube method offers yet another advantage. The tube is placed into the active xylem tissues of the tree (the last two or three growth rings). Systemic fluids are promptly carried away from this point and diluted by the fluids of the tree. This widens the formulating parameters and minimizes the difficulty experienced with high density woods.

By comparison, slant hole drilling goes well beyond the active xylem tissues. When many materials remain there for extended periods, a considerable amount of discoloration and cell degradation takes place. This further compounds the problem of healing and greatly increases the time of exposure to insects and disease.

As with the medical profession, the arborist who treats trees that are the property of others must be responsible for the residual amounts of chemical. In addition, the amount of liability assumed increases greatly. With both the quantity and quality of the contents in closed capsule systems established by extensive testing and Federal registration, an applicator is on much firmer ground in event of litigation.

In the medical field, chemotherapy is considered a high technology. There are obvious reasons why it should receive the same consideration in the tree care field. The corresponding level of professional responsibility has been established. Seminars on tree injection have been conducted by our company in cities across the nation. More will be conducted this year.

Additionally, the more than 500 experienced and highly trained ar-

borists in the country utilizing the Mauget Process will provide a practical, continuing testing laboratory. They provide the means whereby new developments may be field tested to achieve more knowledge quickly. This network of "field scientists" will augment the university scientific force tremendously.

With greater knowledge, better communication, new systemic chemicals, improved methods of evaluation and application, it may be possible to overcome the pitifully small amount of funds expended into research on shade and ornamental trees. □

ONE INCH OF RAIN on an acre of ground amounts to 27,154 gallons of water. How is this determined? According to the Du Pont Company, one inch of rain on 43,560 square feet = 6,272,640 cubic inches of water or 3,630 cubic feet. A cubic foot of water weighs 62.4 pounds, so 3,630 cubic feet equals 226,615 pounds or 113¼ short tons. The weight of one gallon of water is 8.3 pounds, so an inch of water equals 27,154 gallons.

Mitts & Merrill Brush Chippers For...

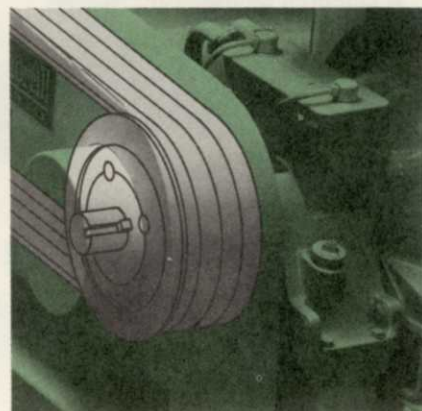


better design... more efficiency

For more than 115 years Mitts & Merrill has been making specialized machinery for industry. A major part of our business is equipment to reduce scrap and waste. This experience is incorporated into design features on our brush chippers that result in higher efficiency and longer, trouble-free service for you. Only Mitts & Merrill brush chippers offer features like these:



Staggered knife pattern for smoother cutting action. Mounted on an all-steel cylinder that, even without an external flywheel, is heaviest in the industry. Each cylinder revolution gives more cuts, produces smaller chips of uniform size. Self-adjusting knives are reversible; give twice the service between sharpening.



Optional torque converter isolates engine and transmission from cutting shock to minimize maintenance. Makes operation virtually fully automatic; increases operator productive time. Available on all models.

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• **Positive safety-lock pin** for greater operator safety • **Swing-away, folding feed chute** protects cutting chamber; allows instant access and increases maneuverability • **Heavy duty construction** includes coil spring, torsion-type suspension, and box tubular steel frame.

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