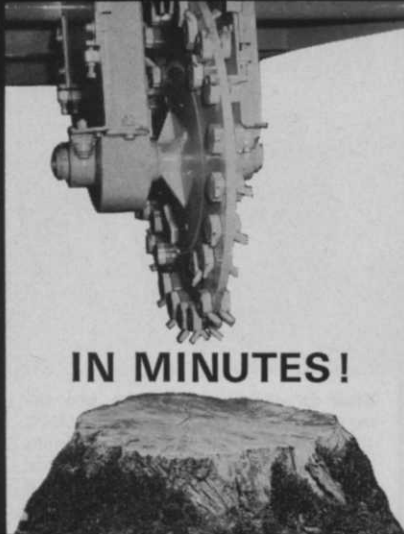


# GETS TO THE BOTTOM OF YOUR STUMP PROBLEMS!

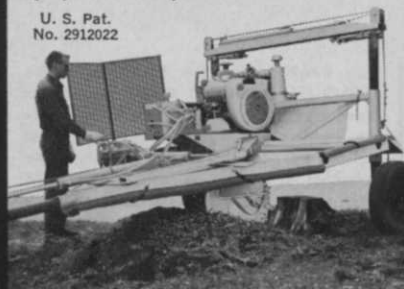


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## Hyman Lab Is Site For USFS, UC Research

One of the biggest challenges in the field of research in insecticides, discovery of effective substitutes for DDT and other chemicals, is now getting the joint attention of U. S. Forest Service and University of California scientists at Berkeley.

Leader of an insecticide evaluation project at the USFS Experiment Station in Berkeley, Dr. Arthur D. Moore, announced that USFS has leased lab facilities belonging to Dr. Julius Hyman, president, Hyman Laboratories, 2840 8th St., Berkeley.

Hyman, a chemist who was instrumental in finding and initially developing insecticides commonly referred to as aldrin, endrin, chlordane, and dieldrin, will counsel and work with the 25 Forest Service and some of the 17 UC scientists studying the problem.

Professor of Entomology at UC, Dr. John E. Casida, is directing graduate students and postdoctoral fellows with the University group. Some of the team began work at the Hyman lab early in April. Facilities include six chemical labs, a shop, stockroom library, and a pilot plant for chemical production.

### Seek Selective Chemicals

"Our immediate goal," Moore said, "is to develop chemical substitutes for DDT; chemicals that are highly selective against individual species of insects, and those that break down into harmless components without contaminating the environment."

A tree defoliator usually controlled by aerial applications of DDT, the spruce budworm, has already been effectively controlled with Zectran. A carbamate insecticide, Zectran is reported to be effective in small amounts, as little as 2 oz. per acre, and it breaks down in the environment.

Pyrethrum is another insecticide the research group finds promising for control of tree defoliators. It shows extreme toxicity to the insects and is one of the safest insecticides known for control of plant pests. The prob-

lem pyrethrum presents is that it is very unstable in air and sunlight. Dr. Casida believes a synergist may give pyrethrum stability until it reaches the pest, and for a brief period thereafter.

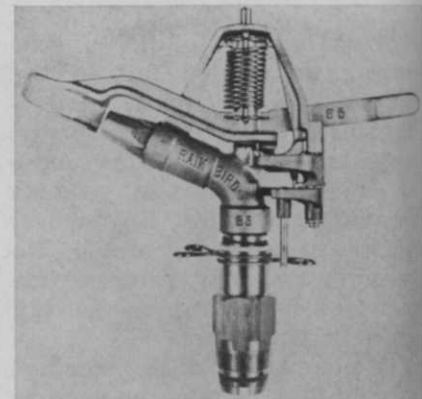
Although the group is concentrating on insecticides for use against forest pests, its basic research will apply to all phases of insect control.

## Florida Flood District Sees Growing Weed Control Costs

Sea cows, \$3,000 "Ducks," and \$229,173 spent for weed control last fiscal year are among weed control items covered in Central and Southern Florida Flood Control District's annual report for 1965.

Noting that sea cows (manatees) eat not only aquatic weeds, but even their roots, the publication explains the only problem encountered so far in the district's 3-year study as to feasibility of the animals for weed control is their slow reproduction rate.

Addition of many miles of new canals in the FCD created a need for more equipment. During the year, the district purchased two amphibious vehicles, known to the military as "Ducks," at a cost of just under \$3,000 each. The FCD uses the "Ducks" to tow heavy steel A-frames suspended by cable to the canal bottom for aquatic "plowing." Other measures the district's 20-man crew uses in the battle against weeds



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include chemical spraying from boats, trucks, and afoot, and mechanical mowing and chopping operations.

Cost of \$229,173 for weed control during the past fiscal year was almost \$70,000 over the district's 1963-64 figure of \$160,000, but the annual report points out that costs obviously increase each year as the FCD accepts more canals for operation and maintenance.

### Casoron Aq Granules Best When Used On Pond Bottoms

Test results on dichlobenil, registered in late 1965 as a pre-emergence aquatic herbicide by the U. S. Department of Agriculture, showed best results when it was used on exposed pond bottoms just after the spring thaw.

Presented in a report compiled by Illinois Natural History Survey Section of Aquatic Biology, the test findings indicate that the chemical is effective against sago pondweed, southern naiad, and chara.

Dichlobenil is sold by Thompson-Hayward Chemical Co. under the trade name Casoron Aq Granules. One formulation of Casoron is available as a heavy

aquatic granule containing 4% active ingredient or 4 lbs. of dichlobenil per 100 lbs. of granules.

This Casoron formulation is effective when applied either to the water or to an exposed pond bottom, though slightly higher rates may be required for water application, the survey report indicates. Effective control was achieved against aquatic plants when Casoron was applied as soon as the ground (pond bottoms) had thawed and by mid-March for application through water.

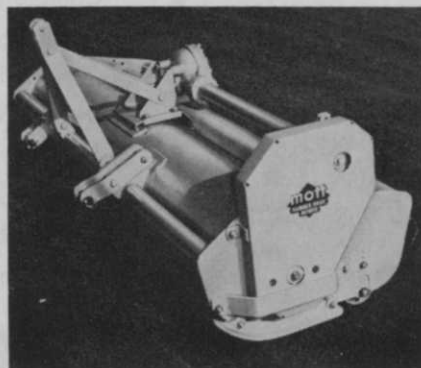
Included in the survey report, titled "The Chemical Control of Some Aquatic Plants," is a Thompson-Hayward listing of other water plants Casoron Aq Granules can be used against. Suggested application rates are also given.

For complete information on the tests write for Supplement No. 5, The Chemical Control of Some Aquatic Plants, Illinois Natural History Survey Section of Aquatic Biology, Urbana, Ill.

### Hudson Updates Catalog

New 20-foot spray booms with adjustable or fixed nozzle spacing are just one of the up-to-date listings in the H. D. Hudson catalog now available.

Introducing the company's over-the-road sprayers, special 150- and 200-gal. units fitted with accessories to adapt them for trailing over roads at normal speeds, the publication includes the company's complete Peerless Power sprayer and duster line. For a free copy write H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago, Ill. 60611.



Unitized construction is one of the built-in strong points of the new Mott "88" mower.

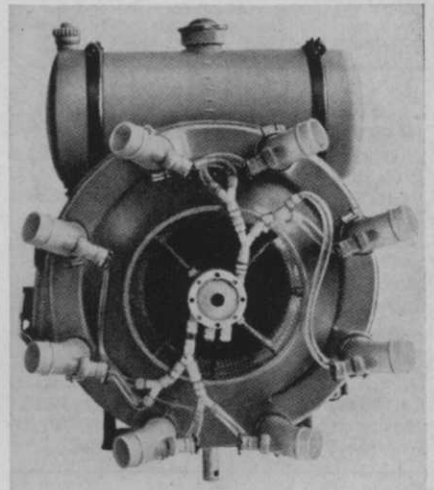
### Mott Introduces 88" Flail Mower

Rugged unitized construction, large diameter, a thick-walled tubular cutter shaft, and oversized bearings are features said to make the new Mott Model "88" ideally suited for heavy duty mowing.

Other strong points claimed for the new mower include a 60 hp. Timken roller bearing equipped gear box, a totally enclosed output drive shaft, and safety engineered guards. Roller adjusts height of cut from 1" to 6". Mounting is by 3-point hitch. Free-swinging knives fold back in the face of obstructions and automatically return to cutting position when clear, thus reducing danger of throwing struck object.

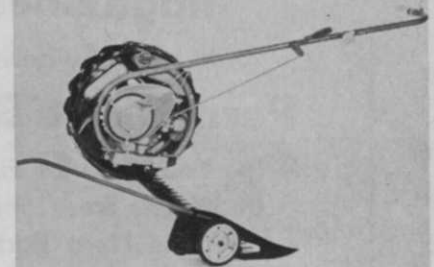
For complete information about the new model "88," write Mott Corp., 500 Shawmut Ave., LaGrange, Ill. 60525.

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