

Johnsongrass Control Program Is Sought

Why does Johnsongrass stubbornly resist control? In areas where this vigorously growing plant is considered a weed, practical control is extremely difficult.

Vigorous growth of Johnsongrass may be an advantage on certain grazing land where it's a valuable forage. But on cropland, Johnsongrass is one of our most troublesome weeds.

That's why USDA-State research is aimed at learning more about Johnsongrass. New information, scientists hope, will aid development of more effective ways to combat it. So far, some interesting things have been discovered about the plant's growth.

Findings indicate the importance, too, of early season chemical and mechanical controls. The studies are being conducted by ARS plant physiologist C. G. McWhorter in cooperation with the Mississippi Agricultural Experi-

ment Station, Stoneville.

How prolific Johnsongrass can be was shown by McWhorter in 1959 and 1960. Each Johnsongrass plant studied produced 21 1/2 feet of rhizomes (underground stems) and nearly 1 1/2 pounds of seed per season.

In relation to top growth, rhizomes didn't grow fast (about 8 feet per plant) until bloom stage—at about 47 days, however, each plant produced about 85 feet of rhizomes.

Seedlings produce rhizomes from 3 weeks after emergence to maturity. Mature Johnsongrass produce other rhizomes that grow until frost, overwinter, then sprout new plants the following spring.

When comparing plants developing from rhizomes, the researcher found their growth habits almost identi-

cal. Two-week-old plants from seeds were killed by a single clipping (to simulate hoeing). Plants from rhizomes required 2 clippings for control. If clipping was delayed until plants were 3 weeks old (when rhizomes began growing), they survived 2 subsequent weekly clippings.

A rapid change occurs in the plant's metabolism of food at bloom stage. This may help researchers determine why Johnsongrass becomes much more resistant to chemical control (and after) this stage.

Soon after growth starts, the quantity of glucose—the predominant sugars in Johnsongrass—drops to a low level. Johnsongrass is most susceptible to chemical control at this stage of growth. Glucose, an easily metabolized sugar, increases until blooming. A full bloom glucose content drops sharp-

Purebred Beef To Be Sold

Staunton, Va.—It has just been announced by Dave Canning, Staunton, Virginia that the Annual Great Atlantic Angus Spring Auction

ly. On the other hand, sucrose—a stored sugar—remains at a low level until bloom stage, then increases as glucose content drops.

Such fundamental knowledge of the growth and metabolism of weeds throughout their life cycles is essential to the development of efficient chemical, cultural, mechanical, and biological methods of control.

will be held this year at Zoorama Arena just south of New Market, Virginia, Route 11, on Wednesday, 19th of April.

Canning said that the will be a wide variety of breeding represented in 400 head of Registered Angus cattle being offered in outstanding herds in East, including the herd of the late Oscar Hermerstein, II, Doylestown, Pennsylvania, and about half of the excellent Highland Hill herd at Gainsville, Virginia. The sale get under way at 10 a.m. Canning also reports some 200 good commercial Angus females will be in uniform groups at close of the sale of registered cattle.

Miller

Construction Co.

Excavating, Bulldozing, Pond building, land clearing, Backhoe work, and trenching.

Strasburg, Pa. OV 7-6277 or Oxford 7-65J3

MAKE YOUR PLANS! NOW

FOR SPRING APPLICATION OF NITROGEN ON:

- SMALL GRAIN
- PASTURE
- ORCHARDS
- TURF AREAS

USING CYANAMID AMMONIUM NITRATE UREA

We Will Apply it for you by Jeep or Plane

ORGANIC Plant Food Co.
GROFFTOWN RD.
EX 2-4963



Pa. 820 Corn

A high population variety

Yields up to 160 bu. per acre have been recorded.

- 1 Stands up when others lodge
- 2 Withstands drought
- 3 Has a very strong stalk
- 4 Good resistance to corn leaf aphid and corn borer
- 5 Responds to thick planting and high fertilization
- 6 Low uniform height
- 7 Drier at harvest time than other varieties

REIST SEED COMPANY

MT. JOY

Ph. OL 3-3821

MEYER Saves the Leaves

MEYER Hay Conditioner Model No. 675

Leaves Stay on Stems when SLOW ROLLED

MEYER Conditioning Rolls revolve slower... because they are fed by an exclusive, separate pick-up—and do NOT rely on high speed in order to pick up the hay. When high speed rolls are used, hay is grabbed up and forced through... leaves are lost. With the MEYER, the hay is lifted and fed through the slower-moving rolls which thoroughly but gently crack the entire stems without crimping and gently press the leaves. The leaves a MEYER saves out more dollars into your pocket, yet MEYER is priced lower.

Condition while you cut. Use your own mower with Model 675, or get Model 680 with built-in-mower, a MEYER patented feature. Model 205, without separate pick-up, is for use on smooth, rock-and-terrace-free fields. Does superior job to crimper-type machine.

MEYER—maker of famous MEYER elevators—is the original and oldest manufacturer of hay conditioners—with over five years more experience than all other makes.

J. PAUL NOLT

LINCOLN HIGHWAY, GAP

THE BIG DIFFERENCE IN TERMITE CONTROL

- RELIABLE INSPECTION AND CONSULTATION—WITHOUT COST OR OBLIGATION
- ENDORSED BY PROMINENT ARCHITECTS, BUILDERS AND REALTY INSTITUTIONS
- WORK PERFORMED BY SPECIALLY TRAINED OPERATORS COVERED BY PUBLIC LIABILITY INSURANCE
- DEPENDABLE PROTECTION BACKED BY A RESPONSIBLE ORGANIZATION, ESTABLISHED FOR OVER A QUARTER OF A CENTURY
- COMPLETE PERFORMANCE UNCONDITIONALLY GUARANTEED FOR 5 YEARS, OR LONGER, IF DESIRED
- THE COST OF TERMITE CONTROL IS NOW TAX-Deductible, IF THE INFESTATION IS DISCOVERED AND TREATED WITHIN TWO YEARS FROM OCCURRENCE
- PLAY IT SAFE, LET US INSPECT YOUR PROPERTY NOW—IT COSTS NOTHING TO FIND OUT

J. C. Ehrlich Chemical Co., Inc.

736 EAST CHESTNUT ST. LANCASTER, PA.
PH. EX 7-3721

SEE US FOR...

Your Spring Needs FERTILIZER

SPREADER SERVICE AVAILABLE

- Baughs
- Cramers
- Armours
- Limestone & Lime
- Vertagreen for lawns and gardens
- Weed Killers for pastures
- Garden Seeds & Tools
- Tobacco muslin & fencing
- Poultry Feeds & Supplies

West Willow-Farmers Assoc.
WEST WILLOW Ph. EX 4-5000

Now HIGH CLEARANCE TRUSS BEAM CONSTRUCTION

FORD 2-FURROW 2-WAY PLOW

- TRUSS BEAMS—Give 24-inch beam clearance for deep plowing and good trash clearance.
- HYDRAULIC ROLL-OVER—Finger-tip operation of lever rotates plow quickly. Simple design with heavy-duty dirt-shielded bearings and supports.
- RUGGEDNESS—Truss beams provide extra strength at points of greatest stress.
- BREAK-BACK PROTECTION—Each bottom has a shear for protection from hidden objects.
- HANDY CONTROLS—and simple adjustments enable you to easily get top performance with both sets of bottoms.
- 3-POINT HITCH—Fully mounted on Ford 3-point hitch.

Available with 14- or 16-inch General Purpose Economy Bottoms

Stop in today — we'll arrange a free demonstration

Ford TRACTORS IMPLEMENTS

Elizabethtown Farmers Supply
Elizabethtown
Phone EM 7-1341

Conestoga Farm Service
Park Ave., Quarry
Phone ST 6-2500

Haverstick Bros.
Columbia Pike, Lancaster
Phone EX 2-5722

Sauder Bros.
New Holland
Phone EL 4-8721

Allen H. Matlock
Denver
Phone AN 7-5500