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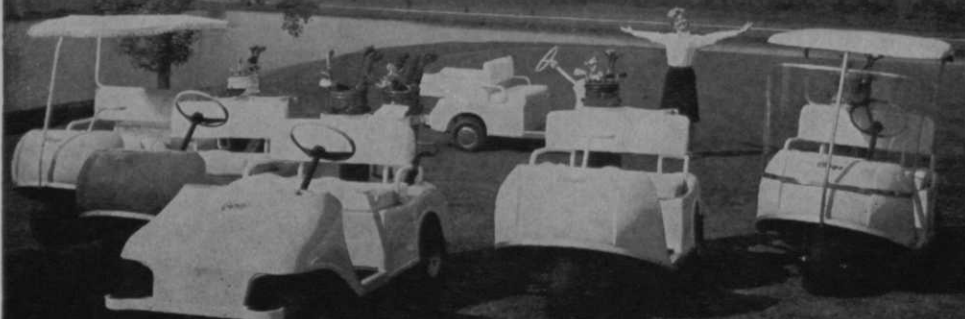
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Turf needs a steady diet of nitrogen for sturdy, uniform growth. It's easy to fill that essential need with Du Pont Uramite® ureaform fertilizer. This time-tested, 38% nitrogen feeds turf continuously without burning or leaching. That's because most of the nitrogen in "Uramite" is gradually released for long feeding.

"Uramite" is also available in sprayable form. It's ideal for use on closely-cut greens because there's no mower pickup. In addition, it gives you all of the advantages of granular "Uramite".

This spring, use "Uramite". And if you've

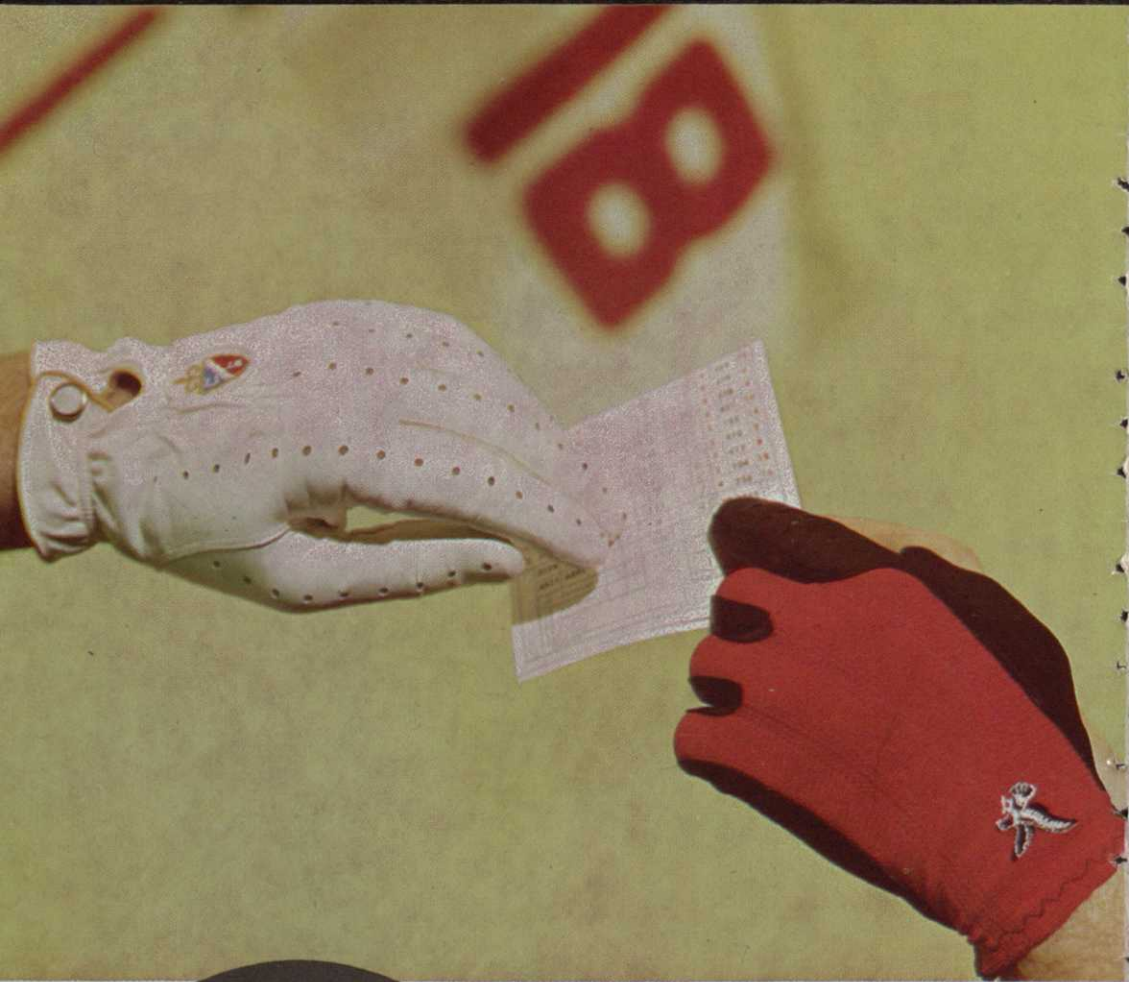
got a crabgrass problem, try this new product: Tupersan® siduron weed killer. It's the only crabgrass killer that can be used the very same day that you're seeding (cool season grasses). It can also be used on established turf.

For full information on "Uramite", "Tupersan", and other dependable Du Pont Turf Products, consult your golf course supplier... your service agency.

With any chemical, follow labeling instructions and warnings carefully.

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GRAU'S Answers to Turf Questions

By FRED V. GRAU

Golf course architects and golf superintendents have made good use of improved turfgrasses. Some new courses have been planted entirely with recently-released improved grasses, both vegetative and seeded.

Several states have kept pace with progress by developing regulations for CERTIFICATION or seeds, sod, sprigs and stolons of superior grasses. Inherent in the system is a tag or a certificate which accompanies each lot of grass assuring the purchaser of genetic integrity.

Regardless of any impulse to the contrary, KEEP THAT TAG! File it in a safe place until the turf is several years old. There have been instances of off-type grasses appearing in turf that was established from apparently pure material. The "off-types" may show up three years or more after planting. The name of the supplier may be remembered but all evidence as to source, purity and other needed information has been lost. Now there is no way to assess liability because there is no way in which to trace the source and guarantee, if any.

The Blue Tag of Certification means that the seed in the bag wearing the Blue Tag (if it is still sealed) is true to variety and, within prescribed tolerances, free from noxious weeds and impurities. It does not assure the buyer that it will contain zero quantities of OBJECTIONABLE things such as: rough-stalked bluegrass in Merion Kentucky bluegrass or *Poa annua* in imported grass seeds. To exclude these items it is necessary to buy on specification which calls for "zero tolerance" of items that are not wanted.

The important things to remember in purchasing grasses is 1) get Certified stock if it is obtainable and, 2) keep the tag or certificate for future reference. Also, make sure that the area to be planted is not contaminated with the undesirables.

Q. Could you, out of your experience, give me a range of rates for different sources of nitrogen in a seedbed for several widely-used turfgrasses? Please give it to me in terms of "maximum quantity of N that is SAFE?" (So. Carolina)

A. Rates to be given refer to lbs. of N to 1,000 sq. ft. For solubles (urea, sulfate of ammonia, ammonium nitrate, nitrate of soda) the maximum safe rate is 2 lbs. for cool-season grasses; approximately double that for warm-season grasses, sprigged.

For straight ureaforms (38% N) the maximum safe rate is 8 lbs. N for cool-season grasses; about double that for warm-season grasses, sprigged.

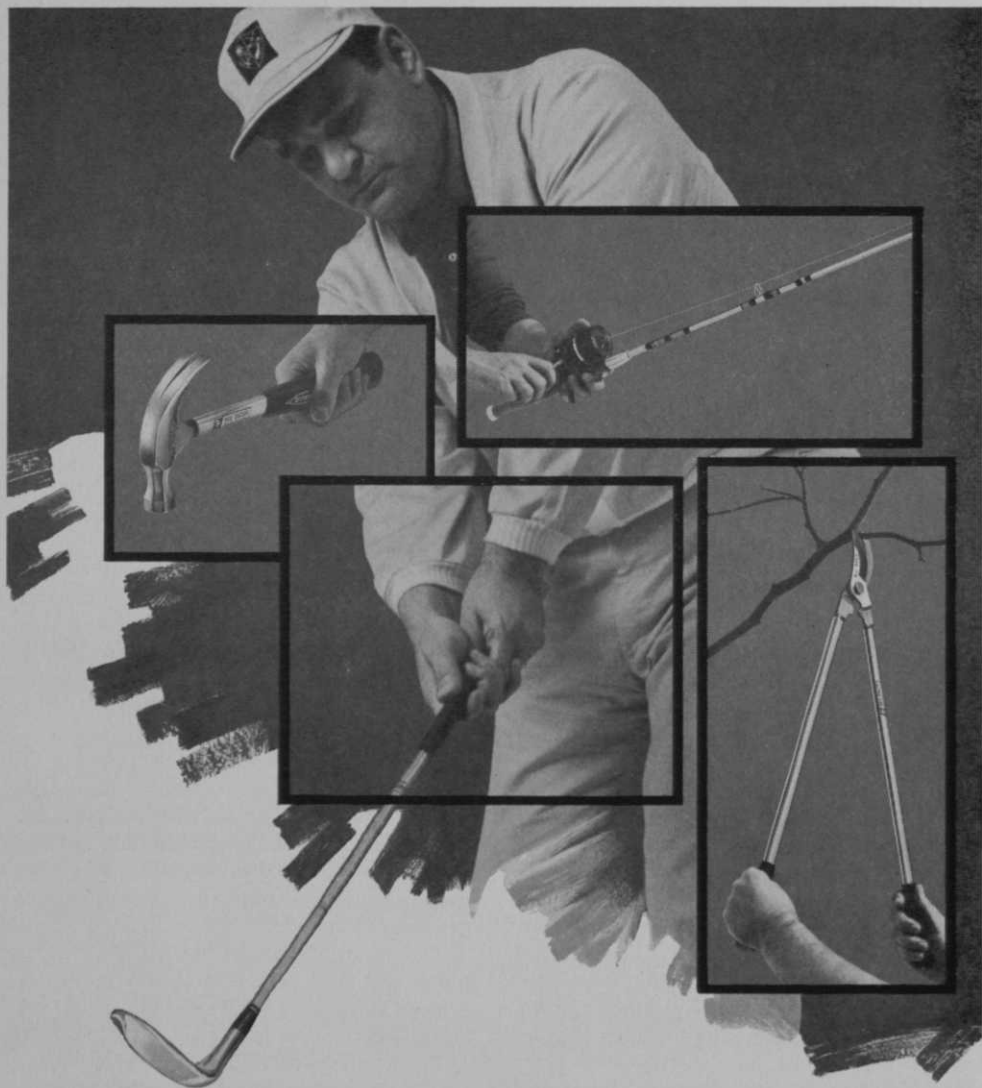
From all indications it would seem that natural organic N is intermediate.

A mixed fertilizer must be evaluated on the basis of soluble N content. If a mixed fertilizer carries 50% of its N as ureaform the caustic effects of the soluble N portion will be masked. It is good business to learn exactly how much of each kind of N is in your mixed fertilizers.

Rates should be lowered by about $\frac{1}{4}$ when the seedbed is a sand or a sandy loam. Clay loam soils have a higher buffering capacity and can take the highest rates.

The so-called "soluble N" portion of ureaforms does not perform in the same

Continued on page 38



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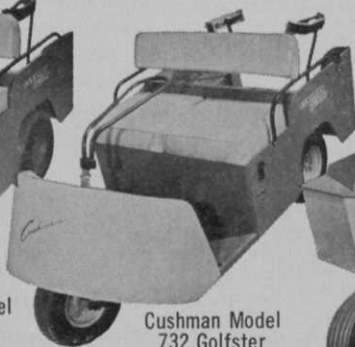
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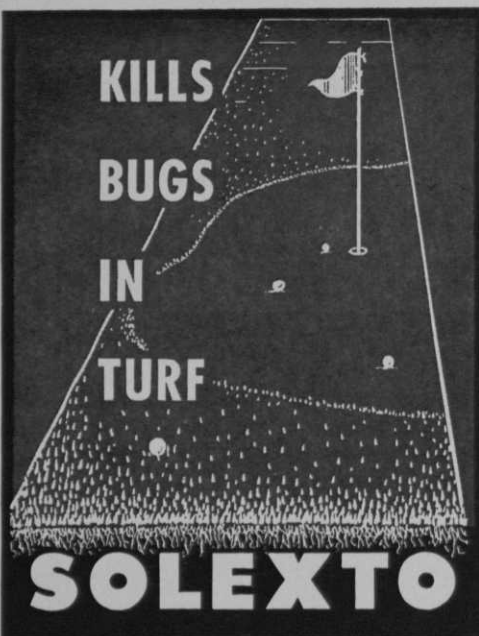
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One part of Soloxto in 400 parts of water sprayed on two to four acres gives season-long control of beetle grubs, ants, crickets, chinchbugs, cut worms, rose chafers, chiggers, fleas, ticks, mosquitoes and many other pests.

GRUB-PROOFS FOR TEN YEARS

One application of Soloxto, two gallons to the acre (1-to-200 solution), grub-proofs the turf for at least ten years. Thus moles are also kept out by eliminating their food source.

ECONOMICAL COVERAGE

Because such high dilutions are possible, extensive coverage is very economical. Labor can also be saved by using EWT Weed Killer* in the same solution for general spraying of the grounds.

* Widely used selective weed killer manufactured by Dolge.

Write to the C. B. Dolge Company, Westport, Connecticut for information about other insecticides; also inquire about weed killers, golf ball cleaners, mole and gopher killers.



For more information circle number 125 on card

FRED GRAU

Continued from page 35

way as the N in true soluble materials. It is truly organic and behaves as an organic.

Q. Our golf course is steeply rolling and, consequently, there are several tees that have steep slopes. We mow them to keep them decent but we would like to plant something that needs no mowing. Someone suggested crownvetch but vounteered no further information. If this groundcover is good for tees how would it do around our lake? (Maryland)

A. Crownvetch would be a good choice for any steep slope that is too steep to mow or for any rough area or pond out of the line of play where low-maintenance is desired. The variety that I discovered in 1935 and which Mrs. Grau and I developed is Penngift, the one with which I am most familiar. The varieties Chemung and Emerald also are on the market but the only one in good supply and available easily is Penngift.

Crownvetch is widely adapted over most of the U. S. It can be seeded without preparing a seedbed. Crowns (roots) also may be planted but at higher cost. Once established, erosion is stopped. Incidentally, this groundcover is very colorful through a long summer blooming period.

There are educational leaflets available that provide instructions for planting. They may be requested from GOLFDOM or directly from GRASS-LYN, INC., Box 177, College Park, Maryland 20740.

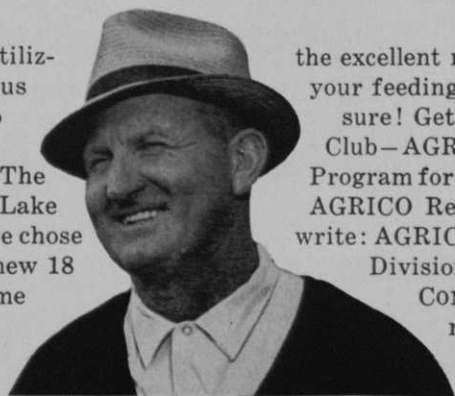
Merger in Upstate N.Y.

Victory Manufacturing Company Inc. of Lancaster, N. Y., has acquired the manufacturing firm of Wilson Chemical Feeders Inc. of Buffalo, N. Y. According to Howard W. Nash, president of Victory, "New designs and improvements are contemplated. Manufacturing and engineering will continue on the Wilson Line of chemical feeding units, hypochlorinators, displacement feed pumps, vacua meters and purifiers."



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“AGRICO Country Club Fertilizers and AGRINITE helped us develop our 27-hole course to its championship form,” says Frank Eck, Superintendent, The Concord Hotel Golf Course, Lake Kiamesha, N.Y. “Naturally we chose AGRICO Fertilizer for our new 18 hole course. And AGRICO came through for us again—we have fine turf. Touring pro or guest—anyone can see



the excellent results.” Are you sure your feeding program is right? Be sure! Get an AGRICO Country Club—AGRINITE Turf Feeding Program for your course. Call your AGRICO Representative today or write: AGRICO Chemical Company, Division of CONTINENTAL OIL COMPANY, Memphis, Tennessee 38118. AGRICO Fertilizers are available in Canada.

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Floridas Fifth Annual Trade and Turf-Grass Show

The fifth annual Florida Turf-Grass trade show, to be held at Plantation Field Research Laboratory and the Sheraton Hotel, Ft. Lauderdale, Florida, on April 28th and 29th, will feature speakers from Minnesota, the University of Florida and Lake City Junior College.

Addressing the annual breakfast of the Florida Turf-Grass Association, sponsors of the event, will be Herbert B. Attaway, Jr., Dean of the technical-vocational division of the junior college in Lake City, Fla. Mr. Attaway's talk, under the title of "New Horizons for Florida Turf," will outline for the show registrants the steps taken by the college in the establishment of a dual-major course in turf management and ornamental horticulture which will be initiated at the college at its fall term beginning in August.

The management clinic, to be held on Friday morning, April 29, is designed to assist the turfmen in their jobs, and will be highlighted by an opening talk by Dr. James R. Watson, director of the agronomy division of Toro Manufacturing Corporation of Minneapolis, Minn. Dr. Watson will discuss the need for long-range planning and the efficiencies and economies that can be realized in all phases of the turf industry through a coordinated planning effort.

Following Dr. Watson, Dr. William Fox of the College of Business Administration, U. of Florida, Gainesville, will conduct the audience-participation discussion of the personnel and labor problems found in the turf field.

The show will open the preceding day, April 28, with the traditional morning-long tours of the turf research plots under the guidance of Dr. Evert O. Burt, associate turf technologist, at Plantation Research Laboratory. After the tours the registrants will view demonstrations.

Following the day at Plantation, the remainder of the show will be held at the Sheraton Hotel viewing exhibits and participating in panel discussions. For more information write FT-GA, 4065 University Blvd, N., Jacksonville, Fla.