Supt. Holds His Own In Battle Against The Jet Stream

FRED V. GRAU

In this area there have been tornadoes, thunderstorms, heavy rains, high winds, flash floods — a combination that one could well do without. July rainfall has been far above normal in many states — Tex., Neb., Minn., Mo., Kan., Ia., Ga., Md., Ind. have been having the worst floods in 45 years. Wis., up to July, had had only two days of summer weather — two days in April when the mercury hit 85. — Trouble is due to a band of planetary air, or jet stream in the upper atmosphere which controls the weather below — these winds stay north in summer — have shifted far southward, drawing cool air along with them. Warm tropical air pours in against this cold air. The resultant clash brings high winds, heavy rains, flash floods — not much to look forward to — except to tolerate it and hope for something better.

The foregoing has been freely quoted from an editorial in the Cincinnati Enquirer. The next is quoted from a letter from Art Snyder dated Sept. 2, written at Phoenix. "Temperatures and humidity have broken all records here this summer. Only four days under 100 degs. F. since May 14 — one of 88 degs., one of 92 deg. and two of 99 deg. July's average daily maximum was 110.6. Humidity above normal every day since July 29. No trouble, though."

The long, cold, wet spring in many sections wrecked many a supt's timetable. The cold continued so far into the summer that some early spring operations (aeration and thatch removal) were performed in cool weather in June. Then came the heat and humidity and recently treated grass suffered. To cope with diseases, greens were drenched with chemicals of all kinds, some of which checked recovery of weakened grass. Pinning responsibility resembled the game of "pin-the-tail-on-the-donkey." Often the material most recently applied or the tool used last got the blame, most of it unfairly.

The weather can be held responsible for only part of the troubles. Many courses report "splendid condition" and "no trouble." By and large we point to good management in every detail plus good drainage on courses that had little or no trouble.

Poa Annua Abundant

Poa annua thrived with the abundant rainfall. In a few cases the trouble was simply "Poa going out." This we expect in any season. It is nothing new. No new recommendations are available for eradicating Poa.

Poa thrives under heavy (sometimes excessive) irrigation. The Bull Sheet (Midwest GCSA) for Sept. says, "Overwatering of putting green turf certainly is the biggest contribution to our greens woes." The simple answer is to cut down on water but it is not that simple. Water often is used as a "soil softener." The minute a green gets a little firm some golfer complains about "the hard greens" and demands that they be watered. Against his better judgment the supt., to keep peace in the family, often will apply water (not needed) that may increase trouble.

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The effect of matted turf in holding granular materials away from contact with the soil is gaining well-deserved attention. To our knowledge no one has measured accurately the total damage to turf from this factor alone. One supt. recently wondered why we waste our time measuring the pH of the soil beneath a matted turf because, as he put it, "the lime never reaches the soil anyhow." If much of the material we apply is held in the mat of turf and cannot reach the soil below, it would seem that we need to re-examine many of our methods and to evaluate particle size and method of application in terms of results.

Grasses. No Roundup would be complete without a critical evaluation of grasses, old and new, in the light of performance.

Crowded Seedlings
Penncross creeping bent seed is being planted on many new greens. Supply of Blue Tag seed is good, and the price is reasonable. One lb. of seed to 1,000 sq. ft. is ample. Anything over a lb. is extravagant, wasteful and harmful. When seedlings are crowded all of them will be weak because of competition. Fewer plants will provide sturdier growth and better coverage.

Vegetated bents that are extremely popular include Old Orchard, Cohansey, C-1 and C-19 mixed, and Toronto. New strains are being tested and discarded in (Continued on page 106)
The one that lasts longest where wear is heaviest

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Noer's Roundup

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placed from a nursery in late spring or early summer.

In early spring there was some desiccation injury to the bentgrass on greens and fairways in many parts of the intermediate and northern sections. After that some areas were dry and others were overly wet. The heavy, drenching rains came throughout the summer and were followed frequently by hot, humid weather. This combination played havoc.

Iron chlorosis was prevalent and especially bad following heavy rains. Frequently, injury from an iron deficiency was not suspected because ferrous sulphate applications had been routine every 10 to 14 days. In normal weather this suffices, but there can be iron chlorosis just the same after a drenching rain. Then it is wise to apply a little extra ferrous sulfate at the first sign of yellowing after a downpour.

This summer a few superintendents questioned the wisdom of using wetting agents. They claimed greens remained overly wet and would not dry out after heavy rains. Controlled testing is needed before this observation can be accepted as a fact.

To be concluded in January, 1959.

Grau's Roundup

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the search for the one that has "everything."

Seaside continues to be planted on many new courses in the face of overwhelming evidence of the superiority of many other bents.

Merion blue continues to grow in favor for tees, fairways, athletic fields and lawns in spite of its high N requirement and susceptibility to rust. The answer seems to be that Merion produces better turf and that the high fertility required is a small price to pay for perfection. Rust ceases to be a problem when Merion is adequately fertilized. Fewer mistakes are being made today by applying too much water on Merion. One sure way to bring bent and Poa into Merion turf is to overwater it. Merion deserves to be treated like a baby — "Feed it and keep it dry!"

Bermudagrasses are being planted on many areas where Bermuda once would have been considered a weed. Each year more fairways, tees and lawns are converted to Bermuda. U-3 is widespread and a favorite by virtue of its performance. Sunturf went backwards during the past
winters and springs when it completely winterkilled in many areas. Tifgreen has been used widely on new courses and in converting from unsatisfactory strains. There was some loss of Tifgreen because of the severe winter in areas such as Atlanta and St. Louis. In spite of this Tifgreen continues to be highly satisfactory for greens. Ugandagrass proved to be one of the most winter hardy over a wide range. It has made steady gains because of its similarity to bent and ease of maintenance. Everglades and Ormond remain confined largely to Fla., where they are recommended.

Superior Fescue

Penlawn creeping red fescue is being recognized and accepted as a superior fescue. As a companion to Merion it enjoys considerable popularity. In preliminary trials as a winter grass overseeded on Ugandagrass, it shows much promise. It deserves investigation as a replacement for ryegrass on Bermuda greens.

Dull mowers have obscured effects of improved grasses and fertilizer treatments on many test areas. This is a matter of considerable concern. It becomes difficult to evaluate color, texture and quality of a grass when the area is a mass of dead and dying blades bruised and chewed by dull mowers.

Economy has entered many discussions and budget planning sessions. Labor costs get foremost consideration. Better maintenance with fewer operations seems to be the trend. This means fewer irrigations, fewer applications of fertilizer, fewer topdressings.

Urea-form fertilizers were mentioned in our ROUNDUP for 1950 while they were in the development stage. At this writing they have assumed a position of major importance in the specialty fertilizer field.

Experimental evidence from DeFrance of Rhode Island, Musser of Pennsylvania, and Daniel of Indiana shows that uniform, steady feeding of grass can be achieved with one or two applications of urea-form nitrogen a season.

Weed control saw a major breakthrough in the destruction of dallisgrass (the scourge of the South) with D S M A. Research reports show that dallisgrass can be dealt a selective death blow with this organic arsenical.

The GOLFDOM Q&A dept. has been busy answering questions on “Clover in
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A limited number of scholarships in turf management are available. Information concerning them can be obtained from the Scholarship Office, Purdue U., Lafayette, Ind. Complete information also can be obtained from W. H. Daniel, turf specialist at Purdue's agronomy dept.