

In 1981, Jacklin Seed Company bought Jenks-White Seed Company and International Seeds, Inc., purchased the turf seed division of North American Plant Breeders. These mergers consolidate production and research data. Instead of reducing competition, these mergers might actually increase competition between the large companies. The powers in the seed business have developed lines of improved turfgrasses to compete with each other.

Whereas retail seed tended to be either high quality or common, improved varieties by growing seed companies are making inroads. For example, International Seed's Derby perennial ryegrass is rapidly gaining popularity by retail garden center customers. The retail powerhouse has been and still is O.M. Scott & Sons, which recently purchased Burpee Seed Co. to further expand its consumer line. Vaughan Jacklin, Lofts, and others are regionally strong in retail. These professional turf seed companies are offering improved varieties thereby teaching retail customers the benefits of improved grasses over common ones for fine lawns. This demand is then passed on to the sod grower and landscape contractor when customers ask for improved grasses by name.

Seed companies will moderate price increases to compete with sluggish demand this fall. However, if demand picks up dramatically, there may be spot shortages of some varieties, including common ones. Sod producers in many locations have acres unharvested. They will likely not speculate and plant large acreage this fall. Spring seeding may be a safer alternative for them at this time. This would further aggravate shortages in the spring if dramatic recovery is experienced.

Sod producers in many areas have large unharvested acreage.

As a result, this fall may not be a bad time to replenish seed inventories whether or not you intend to use it this fall.

If the market for turf improves this fall and winter, you can bet the seed companies are going to let out all stops to produce record quantities of improved varieties in 1982. **WTT**

Koket chewings	100	100
Olympic tall	Ltd	Ltd
Pennlawn	100	50
Rebel tall	10	20
Reliant hard	Ltd	Ltd
Ruby red	70	70
Scaldis hard	70	40
Shadow chewings	Ltd	Ltd
Shannon tall	Ltd	Ltd
Tournament hard	50	50
Waldina hard	Ltd	Ltd
Waldorf chewings	100	90

Ryegrass Varieties % forecasted % harvested

Annual	100	90
Barry	100	100
Belle	100	40
Birdie	100	100
Blazer	80	80
Caravelle	100	100
Citation	100	80
Common perennial	100	75
Dasher	80	80
Delray	80	80
Derby	100	100
Diplomat	100	100
Elka	75	75
Fiesta	80	80
Goalie	80	90
Hunter	100	100

Jackpot	50	75
Loretta	100	100
LP-200	100	100
Manhattan	75	75
NK-200	100	100
Omega	80	80
Pennant	80	70
Pennfine	75	80
Premier	80	70
Regal	100	100
Yorktown	75	50
Yorktown II	100	100

Bentgrass Varieties % forecasted % harvested

Bardot colonial	100	100
Emerald	100	100
Exeter colonial	100	75
Carmen	Ltd	Ltd
Highland	100	100
Kingstown velvet	100	75
Penncross	100	100
Penneagle	78	80

Other Turfgrasses % forecasted % harvested

Fults <i>Pucinellia distans</i>	60	60
Redtop <i>Agrostis alba</i>	100	100
Reubens Canada bluegrass	100	100
Sabre <i>Poa trivialis</i>	100	60

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Gordon Baker, plant control biologist, Florida Water Management Group.

Gordon Baker has been involved with industrial vegetation management for over ten years: "Our project is second only to TVA in size. We have between 1400 and 1500 miles of interconnecting canals to cover. Over the last six years, we've used Banvel 720 for ditchbank brush control because of its economy. And, because it's right up there at the top for effectiveness."



Ed Ingle, landscaping engineer, North Carolina Department of Transportation, Division of Highways.

Ed Ingle recommends vegetation control herbicides for construction projects and highway maintenance in a seventeen county area: "We have used Banvel for three years and found it was an economical and safe chemical. We've had good results with it where we have a lot of kudzu and multiflora rose. There's really no comparison with 2,4-D alone."



Darryl Fendley, founder/owner, Certified Services, Cleveland, Tennessee.

Darryl Fendley has provided industrial vegetation control work for utilities and industrial facilities for over three years: "We use Banvel 720 for vines and brush control. It does a pretty good job, particularly around sensitive areas, because it doesn't have the soil persistency of some other materials. And, when you compare price, you can use a bit more Banvel than you can with some other products. So my preference is Banvel 720."

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PREPARING FOR THE PGA: SUPERINTENDENT TELLS ORDEAL

By Bruce F. Shank, executive editor

Sports announcers covering major golf tournaments rarely provide information on preparation and maintenance of the course or on the individuals who worried and sweated for more than two years to get everything ready for perhaps six hours of television exposure.

The television viewer assumes, for the most part, that any course could host a major tournament with minor adjustments. The Professional Golfers' Association and the superintendents involved in the PGA Championship will tell you otherwise.

The 1981 PGA was held at the Atlanta Athletic Club in Duluth, Georgia. The historic club, home course of professional Bob Jones and early employer of football trophy namesake John Heisman, had a reputation to protect.

The president of the Atlanta Athletic Club, Merriell Autry and the tournament committees knew the selection of a superintendent was critical to the success of the event. The 2,500 members were not to be embarrassed by mistakes.

With the advise of the PGA, the Club selected Jim Ganley in 1979, then superintendent of Forest Oaks Country Club in Greensboro, North Carolina. Ganley managed the preparation of that course for the Greater Greensboro Open for three years.

Ganley started his turf career under the tutelage of Dr. Joseph Troll at the University of Massachusetts. Immediately, Ganley caught golf fever and was acting superintendent of a golf course at the age of 18 during the summer. In less than ten years he and golf course architect Jeffrey Cornish of Amherst, Mass., built six courses, including the Connecticut Golf Club for Lawrence Wein, then owner of the Empire State Building. This course is now called the Golf Course at Aspituck.

To apply his experience to turf in the West Coast, Ganley worked for O.M. Scott & Sons in research and development in California. His next move was to Pinehurst, one of the largest golf facilities in the world located in North



A special touch for PGA golfers, viewers, and gallery was this annual display celebrating the event. Despite rain and clouds, the display brightened the atmosphere during the tournament.

Carolina. From there he went to Forest Oaks.

During his career Ganley made an effort to meet the touring professionals and get their opinion of tournament courses. Ganley is a close friend of Lanny Watkins. He also talked with PGA staff at every opportunity. It was the professionals and the PGA staff that knew of Ganley's experience and passed the word to tournament club officers.

Tournament preparation

The Atlanta Athletic Club has 36 holes in two different courses, the Highlands and the Riverside courses. Originally designed by Robert Trent Jones, the course had been improved by golf course architects Joe Finger and Tom Fazio.

The largest problem upon Ganley's arrival was an older irrigation system with incomplete coverage. The Highlands course was to be the tourna-

The largest problem was an older irrigation system with incomplete coverage.

ment course and Ganley began to build a case for an improved irrigation system on the Highlands and repair of the older system on the Riverside.

Ganley felt a misting system on the perimeter of the greens, separate from the course system, would help regulate surface temperatures in the 95 degree plus Atlanta heat. Working with Toro Irrigation Division, Ganley chose a double-row system looped in every fairway.

With evidence and drawings in hand, Ganley went before the Greens Committee and got a go ahead. In 1979, more than 77,000 ft. of pipe was laid in the Highlands course.

With slightly more than one year before the tournament, Ganley knew green reconstruction or renovation was tricky. Instead, he chose to heavily topdress with pure sand. The greens had a percolation rate of 2½-inches/hour and he wanted to get it up to 4-inches/hour. His crew double aerified the greens with ⅝-inch spoons and topdressed with pure sand. Percolation increased 25 percent. Now this process is used in the spring and fall every year in addition to light sand topdressings 8 times per year.

All 36 greens are Penncross usually cut at 5/32-inches. The Highlands greens were double-cut at 3/32-inches for the PGA. The greens receive 6 lbs. of nitrogen per 1,000 square feet per year. The fertilizer program was not increased from previous superintendents.

The fungicide program includes Dyrene, Tersan 1991 with Danconil, and Tersan 1991 with Actidione and Thiram. Ganley doubled fungicide applications from previous programs.

He also doubled the insecticide program



Ganley shows PGA officials the triple-cut fairways prior to the tournament.

which includes Scotts Granular 2 Insecticide, Dursban and Proxol.

The herbicide program for greens centers around two applications (April 15 and June 15) of Betasan preemergence control of crabgrass and goosegrass. Fairway weeds are controlled by two applications of Balan and spot treatments with MSMA. No treatments are made during July to prevent discoloration.

Fungicide and insecticide programs were doubled.

For the tournament the fairways were triple-cut, the third cut with a greens mower, at ⅜-inch. The fairways are Tifgreen 328 Bermudagrass fertilized with 3 lbs. N/1,000 sq. ft./year. Ganley does not overseed greens or fairways.

Tees are also Tifgreen. They receive 4-4½ lbs. N/1,000/year and are mowed at ¼-inch. The rough is mowed at 2-inches and 4-inches depending upon the location.

The course is heavily trapped. Many greens have traps both in front and back.

Other improvements

More than 5 acres of sod was purchased to renovate fairways, tees and greens prior to the tournament. Part of this was a 20,000 square foot practice green.

More than 60,000 feet of drainage tubing was installed. This proved exceptionally wise since it rained the week before and two days of the tournament. To keep playing conditions on the greens consistent Ganley misted the greens periodically during dry days.

Continues on page 50

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Manufctr. & Model	H.P.	Cylinders	Weight	Two or Four Wheel Drive	PTO Speeds (RPM)	Hitch Type	Gas or Diesel (G or D)	Hydraulic Attchmnt. Cpblty.	# of Forward Speeds	Turf Tire Option	Price	# of Dist.	Regional Limitations	Years in U.S. Market
Allis Chalmers														
Box 152														
Milwaukee, WI 53201														
414-475-2000														
5020	21.8	2	1900	2	540	1	D	Yes	3	Yes	\$6855	Direct	U.S.	3
5020-4	21.8	2	2150	4	540	1	D	Yes	3	Yes	\$7599	Direct	U.S.	3
5030	26.4	2	2280	2	540	1	D	Yes	3	Yes	\$7699	Direct	U.S.	3
Bolens Div. FMC Corp.														
215 S. Park														
Port Washington, WI 53974														
800-447-4700														
G16XL	16	1	700	2	3600	Sleeve	G	Yes	4	Yes	NA	Direct (4)	U.S.	60
G16XL	16	1	785	2	3600	Sleeve	G	Yes	Inf.-Hydro	Yes	NA	Direct (4)	U.S.	60
G16XT	16	2	690	2	3600	Sleeve	G	Yes	4	Yes	NA	Direct (4)	U.S.	60
H16XT	16	2	780	2	3600	Sleeve	G	Yes	Inf.-Hydro	Yes	NA	Direct (4)	U.S.	60
QT 17	17	2	922	2	2000	3 pt.	G	Yes	inf.-Hydro	Yes	NA	Direct (4)	U.S.	60
HT23	23	2	1100	2	2000	3 pt.	G	Yes	Inf.-Hydro	Yes	NA	Direct (4)	U.S.	60
G102	15	3	1075	2	454/724/1185	0/1	D	Yes	6	Yes	\$4600	Direct (4)	U.S.	60
G154	15	3	1200	4	454/724/1185	0/1	D	Yes	6	Yes	\$5090	Direct (4)	U.S.	60
G174	17	3	1200	4	454/724/1185	0/1	D	Yes	6	Yes	\$5470	Direct (4)	U.S.	60
G192	19	2	1675	2	540/1100	1	D	Yes	9	Yes	\$5195	Direct (4)	U.S.	60
G194	19	2	2000	4	540/1100	1	D	Yes	18	Yes	\$5695	Direct (4)	U.S.	60
G242	24	2	1675	2	540/1100	1	D	Yes	9	Yes	\$5995	Direct (4)	U.S.	60
G244	24	2	2000	4	540/1100	1	D	Yes	18	Yes	\$6495	Direct (4)	U.S.	60
2902	29	3	2631	2	540/1100	1	D	Yes	8	No	\$7259	Direct (4)	U.S.	60
2904	29	3	2948	4	540/1100	1	D	Yes	8	No	\$9392	Direct (4)	U.S.	60
Power King Tractors														
2021 MacArthur Road														
Waukesha, WI 63186														
414/547-5558														
1612	12	1	752	2	2000	3 pt.-0	G	Yes	3	Yes	\$2660	400+	U.S.	35
1614	14	1	938	2	2000	3 pt.-0	G	Yes	3	Yes	\$3080	400+	U.S.	35
1616	16	1	950	2	2000	3 pt.-0	G	Yes	3	Yes	\$3180	400+	U.S.	35
1618	16	1	980	2	2000	3 pt.-0	G	Yes	3	Yes	\$3370	400+	U.S.	35
2414	14	1	966	2	2000	3 pt.-0	G	Yes	3	Yes	\$3260	400+	U.S.	35
2416	16	1	978	2	2000	3 pt.-0	G	Yes	3	Yes	\$3360	400+	U.S.	35
2418	18	1	1008	2	2000	3 pt.-0	G	Yes	3	Yes	\$3550	400+	U.S.	35

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95	33	2	1875	4	500/750	1	D	Yes	6	Yes	\$ 8975	22 Dealers	U.S.	9
85	45	3	3000	4	540 or 900	1	D	Yes	7	Yes	\$15650	22 Dealers	U.S.	9
86	55	3	3300	4	540 or 900	1	D	Yes	7	Yes	\$17995	22 Dealers	U.S.	9

Ford Tractor Company
2500 E. Maple Road
Troy, MI 48084
313-643-2000

1100	13	2	1230	2 or 4	540	1-3 pt. & Swinging Draw Bar	D	Yes	10	Yes	NA	Multiple	U.S.	64
1200	16	2	1345	4	540	1-3 pt. & Swinging Draw Bar	D	Yes	12	Yes	NA	Multiple	U.S.	64
1300	16	2	1875	2 or 4	540	1-3 pt. & Swinging Draw Bar	D	Yes	12	Yes	NA	Multiple	U.S.	64
1500	20	2	2145	2 or 4	540	1-3 pt. & Swinging Draw Bar	D	Yes	12	Yes	NA	Multiple	U.S.	64
1700	25	2	2445	2 or 4	540	1-3 pt. & Swinging Draw Bar	D	Yes	12	Yes	NA	Multiple	U.S.	64
1900	30	3	2690	2 or 4	540	1-3 pt. & Swinging Draw Bar	D	Yes	12	Yes	NA	Multiple	U.S.	64
2610	39	3	3750	2	540	1-3 pt. & Swinging Draw Bar	G or D	Yes	8	Yes	NA	Multiple	U.S.	64
3610	44	3	3940	2	540	1-3 pt. & Swinging Draw Bar	G or D	Yes	8	Yes	NA	Multiple	U.S.	64
4110	52	3	4655	2	540	1-3 pt. & Swinging Draw Bar	D	Yes	8	Yes	NA	Multiple	U.S.	64
4610 SU (Super Utility)	55	3	4655	2	540	1-3 pt. & Swinging Draw Bar	G or D	Yes	8	Yes	NA	Multiple	U.S.	64
230ALCG (Low Center of Gravity)	39	3	3430	2	540	1-3 pt. & Swinging Draw Bar	G or D	Yes	8	Yes	NA	Multiple	U.S.	64
530ALCG	55	3	3450	2	540	1-3 pt. & Swinging Draw Bar	G or D	Yes	8	Yes	NA	Multiple	U.S.	64
340A	44	3	4470	2	540	1-3 pt. & Swinging Draw Bar	G or D	Yes	6 or 8	Yes	NA	Multiple	U.S.	64

THE LAND

A large, orange Massey Ferguson tractor loader is shown in profile, working on a dirt mound. The tractor has a large, rear-mounted blade that is currently lowered. The background is a hazy, brownish landscape under a clear sky. The tractor's body features the 'MF' logo and the number '30'.

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