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UPDATE

Latest NGF data is out

The National Golf Foundation's latest report shows 56 new golf courses were opened last year and 48 courses were expanded, for a total of 12,197 courses in the U.S.

Florida had the most new courses with 12, 11 connected with real estate developments, and a total of 30 new or expanded courses. Texas claimed second with ten new or expanded courses. Minnesota ranked third with eight, and Arizona, California, and Wisconsin each had six openings.

The future looks as bright with construction starts on 100 new or expanding courses last year. Another 102 are in the planning stage. Florida also leads in these categories, but Michigan and Illinois are showing up near the top of the starts and planning lists.

Growth of public courses has greatly outpaced private courses in the last ten years. Since 1973 the number of daily fee courses has increased by roughly 800 and municipal courses by 400. Meanwhile, the number of private course has increased by 90. Today, there are 4,809 private courses, 5,528 daily fee, and 1,860 municipal.

The number of golfers has increased by five percent in the past five years for a total of 17.8 million. For a complete copy of the report contact the National Golf Foundation, 200 Castlewood Drive, North Palm Beach, FL 33408.

GCSAA, NGF plan joint survey

A nationwide study of golf course maintenance activity will be conducted this summer jointly by the Golf Course Superintendents Association of America and the National Golf Foundation. GCSAA says superintendents of every course in the U.S. will be asked to share information on turfgrass maintenance practices, operating and capital budgets, and equipment use and needs. GCSAA has 5,000 members so the balance will have to come from NGF or other lists.

Questionnaires will be mailed this month. The returns will be compiled by the University of Kansas and results will be available by late summer or early fall, according to GCSAA. NGF President David Hueber says the survey is a pilot program in a long-range cooperative arrangement between the two organizations.

TPC family grows to five

The renovation of Edgewood Country Club, Cromwell, CT, under the direction of architect Pete Dye is nearing completion and renaming to TPC of Connecticut, the fifth club to be owned by the Tournament Players Club. The Greater Hartford Open will be played there in July. A sixth TPC course is under consideration in Potomac, MD. Active discussions are also ongoing in six other locations by TPC. The Tournament Players Club is rapidly becoming a major multi-course company and land owner.

deterioration of forests from the Ohio Valley to the East Coast. Studies by the U.S. Forest Service and Butler University in Indianapolis, IN, point to air pollution to reduced growth rates of conifers and poor foliage production of softwoods. Hardwood trees are also showing symptoms as measured by studies of the growth rings of trees.

Scientists liken the problem to a similar event in Germany where 35 percent of the forest declined or died more than 20 years ago. Trees monitored for timber and paper use have shown substantially less growth than expected during the past 15 to 25 years, says Dr. Authur Johnson of the University of Pennsylvania.

More specific blame has been placed in the Ohio Valley where many coal-burning plants are located. Dr. Orie Loucks, director of the Holcombe Research Institute, Butler University, described symptoms as discoloration of foliage on pine, tulip, poplar, sycamore, white ash, hickory, maples and black oaks. Also mentioned are narrower growth rings and a higher degree of mortality.

PEOPLE

Names in the news

Joe Troll made it 25 years of quarter-backing the Massachusetts Turfgrass Conference in March. Joe may be retiring soon and considering this year's conference, he is going out as a winner.

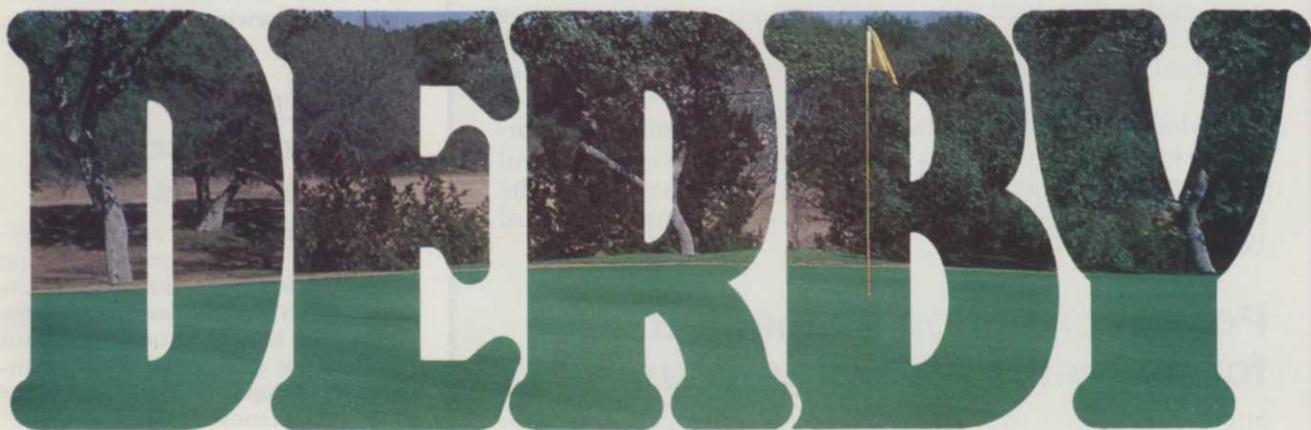
Bob Mullane, president of Alpine Tree Care, Inc., White Plains, NY, is the new president of the National Arborist Association. A University of Massachusetts graduate, Mullane said his goal is to reach out to others in the industry by attending at least ten industry shows. **Neil Engledow**, Mid-Western Tree Experts, Indianapolis, IN, will follow Mullane as president next year.

David K. Scatterday, has joined Martin Associates, Inc., Prairie View, IL, as a project manager. Scatterday is a landscape architecture graduate from the University of Illinois.

Lyle Borg, has been named sales manager for all Vermeer products by president Stan Vermeer. **Kevin Grooms** is the new industrial product sales manager for Vermeer, in charge of both tree and trencher products.

Gordon Mitchell brings 24 years of sales experience to Brouwer Turf Equipment as marketing manager. Gerry Brouwer, president, said Mitchell will be responsible for product introductions, dealer recruitment, advertising and promotion.

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New study reveals local garden shows pay off for contractors

A new study by *Weeds Trees & Turf* reveals participation by landscape contractors in local garden shows adds to credibility and builds a small, but solid base of referrals during the off-season.

Contractors interviewed spend up to 250 hours and \$35,000 to design, set up, and tear down displays. Garden shows lend credibility to newer contractors, show homeowners the potential of landscaping, and help contractors reestablish contact with former customers and suppliers.

"People recognize immediately you are a good contractor," says Russell Jones, president of J. Franklin Styer Nurseries, Concordville, PA. "Any time you can achieve customer contact, it's very critical, especially in the off-season," Bob Kinney, vice president, Wilmore Gardens, Denver, CO, stressed. "One good customer gained from a show can turn around and give you 25 more customers in the next year," according to Lambeth Marshall, president, Associated Landscape, Inc., Hoyt Court, NC.

Undeniably leads from these shows are residential, but corporate executives have been known to make impressions about contractors while attending garden shows in their area. The complete report will be published in an upcoming issue of *Weeds Trees & Turf*.

Poor acclimation suspected for problems with large ficus

Survival problems with large *Ficus* trees transplanted to interior landscapes is now being linked to inadequate acclimation of field-grown trees to containers by the Interior Landscape Division of the Associated Landscape Contractors of America. Originally, the marl soil the trees were grown in was suspected. ALCA reported the problem this past fall and has tried to find a common link among problem trees.

ALCA says a process of root pruning, container size, proper digging and acclimation all effect the tree's ability to survive on location. The best tree is one that has apparently been growing in a container rather than in the field prior to installation.

Contest entry time is here

Summer is the time to enter many landscape award contests; including ALCA's Fifteenth Annual Environmental Improvement Awards, the Florida Nurserymen and Growers Association Fourteenth Annual Landscape Awards, and the California Landscape Contractors Association Trophy Awards.

The keys to winning landscape awards are knowing the job may be award material before it is started, good before and after photography, thorough records of the job as it progresses, testimony from the owner as to the impact of the project, following the contest rules closely, and presenting the entry material in a neat and attractive fashion.

Mike Bush has been appointed manager of Cypress Gardens' Nursery Division. Bush hopes to expand the attraction's existing collection of rare tropical and subtropical specimen plants. "I believe there is a wealth of plant material in places like Brazil, Argentina, and Paraguay that has yet to be exploited," Bush said.

Exmark Mfg. Co., Beatrice, NE, has promoted Dick Tegtmeier to executive vice president. Bob Martin, president, said the promotion was the result of "remarkable" growth for the fairly new mower manufacturer.

LESCO Inc. has named two territory managers. Les Guedel will be manager of East Coast sales and Jim Johnson will manage North Central sales for the company based in Rocky River, OH.

Ray Lewis and his wife returned from the Las Vegas GCSAA Show with some unpredicted baggage, a Dedoes trailer aerator. The Lewis couple won a drawing during the show.

JOB HUNTING

Turf and landscape recruiter opens doors

A firm specializing in recruiting personnel for the turf and landscape industries has been launched in Littleton, CO. S. Ronald Gaston and Associates will handle national fee-paid positions for golf course superintendents, landscape architects, and other professional landscape positions.

Ron Gaston says his firm is the first of its kind. A pamphlet describing the new service is available by writing the company, P.O. Box 2527, Littleton, CO 80161.

TURF SEED

Danish company's U.S. branch renamed

Daehnfeldt, Inc., is the new name of Pacific Seed Production in Albany, OR, after the Danish seed company decided to clear up any confusion about its presence in the U.S.

L. Daehnfeldt of Odense, Denmark, signed a cooperative agreement with Pacific Seed in 1982 to develop a joint Danish/U.S. breeding and production company. Many European seed companies are active in the seed growing regions of the northwestern U.S., often through U.S. companies. Growing conditions and land are more favorable in the U.S. than in Europe.

The company will continue research and development of turf, for-

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They apologize for not always being in when you call, but great stories are found in the field, not in the office. These pros know the only way to really cover the green industry is to get out and be a part of it. From turf test plots in Oregon to the corridors of our Nation's Capital, they're following leads, surveying markets and interviewing the landscape

professionals who make our industry hum. Then, they use their years of experience to pull it all together, analyze it and present it to you in a crisp, easy-to-read and easy-to-use style. That way, you have the information you need to do your job better, faster and more effectively.

The next time you want to know something in the green industry, give them a call. If you can't reach them at the office, don't worry. They'll reach you in the pages of **WEEDS TREES & TURF**.

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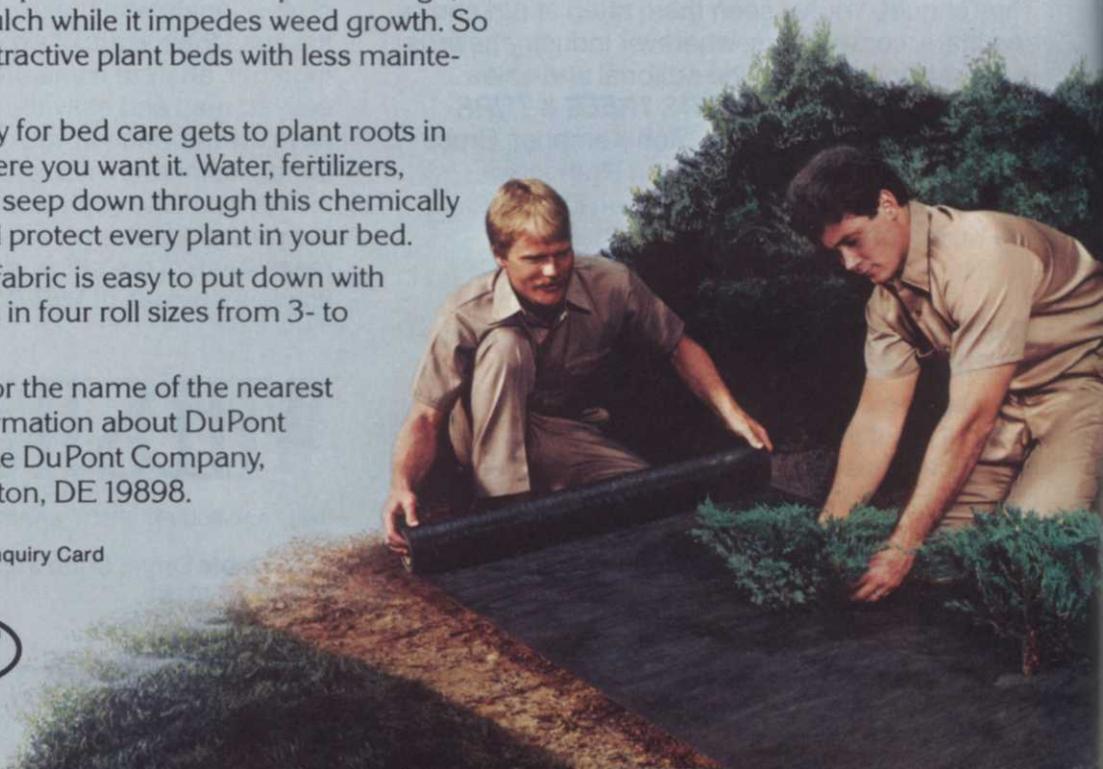
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103	118	133	148	163	178	193	208	223	238	253	268	283
104	119	134	149	164	179	194	209	224	239	254	269	284
105	120	135	150	165	180	195	210	225	240	255	270	285
106	121	136	151	166	181	196	211	226	241	256	271	286
107	122	137	152	167	182	197	212	227	242	257	272	287
108	123	138	153	168	183	198	213	228	243	258	273	288
109	124	139	154	169	184	199	214	229	244	259	274	289
110	125	140	155	170	185	200	215	230	245	260	275	290
111	126	141	156	171	186	201	216	231	246	261	276	291
112	127	142	157	172	187	202	217	232	247	262	277	292
113	128	143	158	173	188	203	218	233	248	263	278	293
114	129	144	159	174	189	204	219	234	249	264	279	294
115	130	145	160	175	190	205	220	235	250	265	280	295

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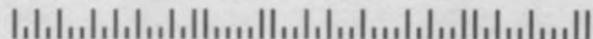
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age, vegetable, and flower seed varieties, both in Denmark and in Oregon. Daehnfeldt plans "substantial growth and expansion" to expedite sale of supplies from its Denmark operation in the U.S.

INSECTICIDES

Mocap receives label for six more turf insects

Rhone Poulenc has received EPA approval to add six turf pests to its label for Mocap 10 percent granular. First registered for use against nematodes and mole crickets, the label now includes sod webworms, chinch bugs, Japanese beetle, black turfgrass ateanius, European chafer, and the bluegrass billbug.

The application rate for the six pests is half that for mole crickets, 1.25 lbs./acre. Only professional turfmen are permitted to apply the product for the new pests.

"The expanded label shows Mocap's ability to control a broad spectrum of insects, including grubs," says Dan Stahl, turf product manager for Rhone Poulenc.

ASSOCIATIONS

Agriculture secretary to give AAN awards

Secretary of Agriculture John R. Block will host a reception for the winners of the American Association of Nurserymen's 1984 Landscape Awards competition after the awards are presented at a White House ceremony, on May 17.

A custom established by Lady Bird Johnson is for the awards to be presented by the President or the First lady in the Rose Garden. Mrs. Reagan presented the awards to the winners in the White House in 1982.

The awards will be presented two months before the 109th Annual AAN Convention in San Antonio, TX, July 14-17. Lady Bird Johnson will address the conference during the meeting. Mrs. Johnson continues to take a leadership role in beautification of parks and roadsides.

SURVEY

Ontario spends \$275 million on turf

A survey, intended partly to justify expansion of turf extension programs
continued on page 80

GOVERNMENT

UPDATE

Correction on Monsanto/EPA suit

The suit reported in the March issue should not be confused with the patent suits Stauffer has filed against Monsanto.

First, there is no suit between Stauffer and Monsanto in the Supreme Court. The Supreme Court suit is between Monsanto and EPA only. Secondly, Stauffer should have been listed as one of those who has filed an Amicus curiae brief in support of Monsanto's position in the Supreme Court case against the EPA. Finally, Stauffer's opposition is that "Me-to" registrations should be nullified.

Johnson says major changes in FIFRA unlikely this year

In an exclusive letter to *Weeds Trees & Turf*, Edwin Johnson, Director, Office of Pesticide Programs, EPA, said, "Substantive FIFRA amendments are unlikely (this year). Rather than pursuing legislative changes this year, the Administrator is seeking administrative changes and remedies to pesticide regulatory problems through the newly formed Pesticide Advisory Committee."

Simazine receives soil restriction

After Dec. 31, 1984, labels on simazine products will bear a restriction against use of the product in areas where groundwater contamination is likely. This generally means it can not be applied to soil in areas designated Sole Source Aquifers by the Soil Conservation Service.

Surflan has experimental turf label

Elanco's Surflan, currently registered for selective pre-emergence control of annual grasses and broadleaf weeds around ornamentals, has received an experimental use permit for weed control in 16 Southern states.

EPA's Moore claims restrictions needed to prevent contamination

John Moore, assistant administrator for Pesticides and Toxic Substances, claims some pesticides will have to be banned or restricted to protect groundwater from contamination. Moore suggested that EPA could point out which pesticides are potential ground water polluters and let the states handle restrictions. "Soil fumigation technology needs to be rethought," said Moore. Reregistration is taking too long to adequately protect groundwater according to Moore.

Get ready for renovation work

Much of July's work is follow-up on spring work. It is when insecticide, herbicide, and fungicide applications are renewed, evergreens are pruned and shaped, and irrigation is closely monitored.

From a planning standpoint, July is when you should nail down fall renovation work and order the necessary supplies. Do not assume everything you need for renovation work will be available. Sell renovation work early in July and notify your suppliers as soon as possible of your needs. Winterkill replacements earlier in the year and reported shortages in some turf seed may limit the renovation work you can do this year.

Labor planning is especially important, considering how valuable renovation work can be while, at the same time, seasonal labor is departing. Quite often renovation work in August and the fall is more important than work during the busy season. By August, seasonal crews are skilled and more efficient than they would be the following spring. Work is therefore more efficient from both labor and plant standpoints.

Chemical renewal

Preemergence herbicides in plant beds and container plantings may need to be reapplied now. Check the label for the length of time the pre-emergence herbicide you use is effective.

Second applications of turf insecticides may also be needed in July to control severe grub, chinchbug, and greenbug infestations.

Many foliage-feeding and sucking insects are at harmful levels in July. Injury during the summer reduces carbohydrate storage by plants leaving plants more vulnerable to winterkill and reducing bud development. Serious foliage feeders include Japanese beetle, gypsy moth, black vine weevil and bag worms. Control is most effective when insects are small. Controls include Sevin, Turcam, Orthene, Diazinon, and methoxychlor. Sucking insects include spider mites, aphids, white flies, and lace bugs. Mite control requires Dicofol, dymet, or Vendex. Malathion, Orthene, Diazinon, dimethoate and Sevin may be used for the other sucking insects. These materials are also effective against the crawler stages of scale insects active at this time.

Hot, humid weather encourages a number of turf diseases, including pythium, anthracnose of *Poa*

annua, *Fusarium* blight, and brown patch. Since poor drainage is a prime cause of these diseases, make a note to improve drainage and air flow of problem areas this fall. Turf fungicides typically have residual periods of less than three weeks. Bayleton, a fungicide with season-long residual must be applied before diseases start, usually sometime in early June. Not all fungicides are effective on all turf diseases. Check with your chemical supplier, the Disease Control Guide in this issue, or local extension agent for specific control information.

Most ornamental disease control is based on control beginning prior to or following bloom. Roses require treatment every two weeks during the summer for black spot and powdery mildew. Preventative spray programs should be established for susceptible plants.

Irrigation

The role of irrigation in landscape management is being closely evaluated today. Water-sensing devices called tensiometers are being added to irrigation systems to reduce water use. Drip irrigation can greatly reduce water use for ornamentals. Wetting agents are gaining acceptance to correct localized dry spots. Plant breeders are selecting plants which require less water. Water use is no longer taken lightly.

As mentioned in a previous issue, Dr. Joe Vargas, plant pathologist from Michigan State University, is recommending light, mid-day irrigation to encourage an active thatch layer. Vargas believe beneficial organisms, which aid in thatch and disease control, are most effective if the thatch layer is not allowed to dry out. Irrigation should be brief, just to moisten the thatch, at mid-day so leaf tissue does not remain damp for long periods.

Dr. Robert Shearman of the University of Nebraska, is recommending irrigation at the first signs of wilt. Then, Shearman recommends a deep soaking to encourage deep rooting and lower disease potential.

Pruning conifers, pines

The best time to prune conifers and pines is July. Shearing half the candle growth results in a denser plant, and if done every year, produces a dwarf plant. This is helpful to keep plants within their intended size and shape in the landscape design.

Juniper, yew, and privet hedges can be shaped at this time. For best foliage appearance, the lower branches should be longer than the top so that all foliage receives adequate sunlight. Otherwise, lower branches will have sparse foliage. **WT&T**

Landscape Log is written based on previous publications by Dow Gardens Horticulturist Douglas Chapman, the Weed Control from March 1983, and the Disease Control Guide in this issue.

