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Arid's finer leaves, rich dark-green color, lower growth and deep roots create an attractive turf requiring less maintenance. Deep roots enable Arid to better withstand temperature extremes—cold winters and hot summers. Arid is an excellent choice for humid transition zones. It has improved drought and heat tolerance and requires less water. Arid's low-growth characteristics mean less mowing.

Order Arid from your
seed wholesaler or sod distributor.

Another fine, quality controlled
product of
Jacklin Seed Company

Arid

TURF TYPE TALL FESCUE



LANDSCAPING WITH

The new John Deere AMT™ 600 “All Materials Transport” treads so lightly, it’ll barely bend your bent grass.

That’s because even with a 600 pound payload and a 200 pound operator on

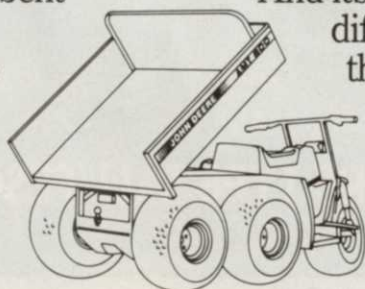
board, the AMT only puts down an average of 17 psi of ground pressure.

And its automotive-type differential allows the inside wheels to

turn slower than the outside wheels. So the AMT won’t tear up your turf turning either.

But for all the features that won’t leave a bad impression on your turf, there are even more that’ll leave a good impression on you.

Like the way the AMT’s



The 48¼ x 43-in. box manually raises to a 45 degree angle.



OUT LANDSCUFFING

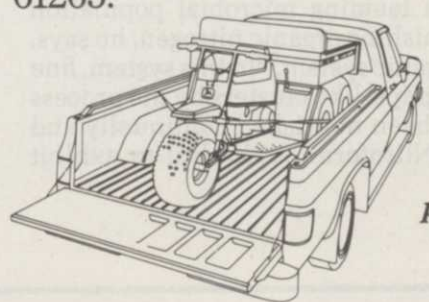
powerful 8.5-hp drive system provides a 62-to-1 torque ratio for tremendous pulling power.

Or the way its box holds 12.5 cubic yards of material—and manually tilts too.

So if you're looking for a utility machine that won't sink into your landscape or

your budget, see your John Deere dealer. Or write John Deere, Dept. 84, Moline, IL 61265.

Nothing Runs Like a Deere®



AMT 600 transports easily in a standard size pickup.



STATE OF THE UNION...Union membership will be mandatory if a new bill gets through Congress. H.R. 281, known as the anti-double breasting bill, calls for compulsory union membership for construction workers, including landscape firms and contractors. Such a law could escalate labor costs, reducing the ability of some firms to compete for landscape bids. The American Association of Nurserymen is asking landscape managers to oppose the bill. Write your representative at U.S. House of Representatives, Washington, D.C. 20515; (202) 224-3121.

HOLE-HEARTED RESEARCH...Preliminary athletic turf studies at the University of California at Riverside by Matt Leonard, Ph.D., with polyethylene covers determine that the hole size in the covers has some effect on turfgrass ground temperatures. Leonard evaluated hole sizes of 1/4, 1/2, and 3/4 inches on five-inch centers and concluded that the smaller hole size seemed best because more heat could be retained longer.

GETTING IT STRAIGHT...Turf Seed sells wildflower mixes, not Tee-2-Green, as we reported in the May issue of LANDSCAPE MANAGEMENT. In addition, we reported in the April issue that since Jacklin Seed Co. was increasing its bentgrass growing acreage by 35 percent, supplies of Pennlinks, Penncross and Seaside bentgrasses would be good. However, Gayle Jacklin points out that high demand may keep supplies limited.

HOUSEHOLD CHORES...How many pesticides is the average person exposed to during the day? The EPA wants to know. A study is looking at homes in Springfield, Mass., and Jacksonville, Fla. About 50 participants will carry personal air monitors to determine their exposure to about 30 different household pesticides during routine daily activities. Identical monitors will be placed in the homes and yards of the participants. Several participants will be asked to perform pesticide applications. The results are due in late 1988.

PALM TREES IN NEW YORK?...In the "On Design" feature in June (page 63) pictures at the bottom of the page were reversed. The Oyster Bay, N.Y. residence by Alley Pond Nurseries Huntington, Inc. of Dix Hills, N.Y. is set in a wooded area containing redbuds, weeping hemlock and birch. The Ft. Lauderdale, Fla., project designed by Roland Lieber of Naples, Fla. and installed by Friends Landscape of Ft. Lauderdale, contains tropical Alexander palms and bougainvillea. We apologize for the mix-up.

DEALING WITH DROUGHT...According to Fred V. Grau, Ph.D., of the Musser Foundation and National Sports Turf Council, soil fortified with a teeming microbial population delays drought effects. By furnishing organic nitrogen, he says, the turf is maintained in an organic system. "In this system, fine soil particles are formed into grape-like clusters by the process of flocculation. Turf that has been nourished continually and consistently with ureaform (Nitroform) is the last to exhibit drought effects."

tion Program during the 1960s. He has worked with Patricia Nixon, Rosalyn Carter and Nancy Reagan on AAN's National Landscape Awards Program.

He also serves as the vice president on the board of the National Wildflower Research Center.



Ablon

Leonard Ablon, vice president of sales for Western Landscape Construction, a subsidiary of Environmental Industries, Inc., Calabasas, Calif., will retire after 25 years with Environmental. He will continue with EII in an advisory role.

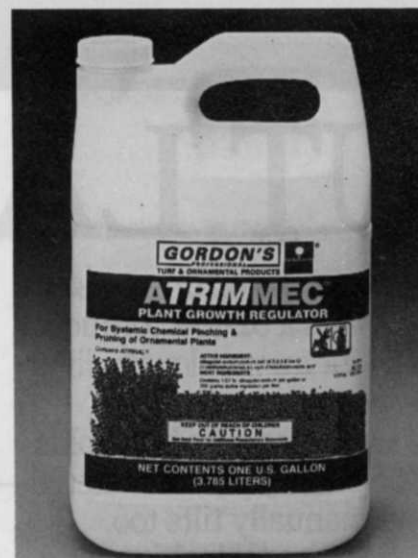
Ablon joined EII subsidiary Valley Crest Landscaping in June, 1962, and was instrumental in the growth of the company over the following years. In 1965 he became president of V.C. Irrigation, a company established to handle irrigation installation for Valley Crest Landscape and other contractors. He remained president until 1969, when V.C. Irrigation merged with Valley Crest Landscaping.

PRODUCTS

Growth regulator can reduce pruning

A new plant growth regulator registered for use on shrubs, hedges and trees has been released by PBI-Gordon.

According to the company, Atrim-



mec Plant Growth Regulator will cut pruning and labor costs by 50 percent or more.

The active ingredient in Atrimmec, atrinal, interrupts apical domi-

continued on page 16

Look closely at this course. No dollar spot in sight. Not even resistant dollar spot, thanks to Rubigan.

Rubigan controls dollar spot on your tees, greens and fairways for only about 10 cents per 1,000 square feet per day. That's all. And you get a full 28 days control with just one 0.4 oz. application per 1,000 square feet.

Now look closer. Notice there's also no fusarium blight, necrotic ring spot, summer patch or take-all patch. And no large brown patch, either, with a Daconil 2787® tank mix.

Only Rubigan is labeled to prevent

and treat all these harmful diseases. No wonder Rubigan is the superintendents' choice for dependable dollar spot control in all types of weather.

This year, make your course look this spotless. Make it dollar spotless with Rubigan. See your Elanco distributor. Or call toll-free: 1-800-ELANPRO. In Indiana, call collect: 317-261-6102.


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Dollar spotless.

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nance, halting growth at the vegetation point. This marks the first time an atrinal formulation has been available for plant growth regulation in the United States.

The company maintains that the product will inhibit upward growth while encouraging lateral branching, allowing the plants to fill in. The chemical is applied as a foliar spray after ornamentals are trimmed. The active ingredient is translocated from the leaves to the growing tips. For larger trees, Atrimmec is applied by injection. The product has no effect on

grassy plants.

Atrimmec causes only minute discoloration of leaf blade edges, notes PBI-Gordon's Hal Dickey. Because of this, he adds, "we don't think that people will go to the time and expense to mask it."

According to the company, one gallon of finished spray solution, containing 1 to 3 oz. of Atrimmec, will cover 400 to 600 sq. ft. of hedges, groundcovers or other vegetation. Atrimmec sells for about \$208 per gallon.

PBI-Gordon has also introduced Ornamec Grass Herbicide, a post-

emergent for control of annual and perennial grasses in ornamentals. Labeled for use on nearly 500 ornamentals, it is the result of an agreement with ICI-Americas, Inc., to formulate, package, market and sell fluzafop-P-butyl (Fusilade) herbicide in the United States under the PBI-Gordon trade name and logo. Fusilade has previously been used in crop agriculture.

Ornamec can be applied over the top on most of the ornamentals on its label, according to PBI-Gordon director of research Jan van Diepen, Ph.D. He notes that 30 grass weed species appear on Ornamec's label, with several more to be added in the future.

"Promark's 16SP has gotten me out of some really tight spots."

"My Promark 16SP stump grinder is compact, powerful and maneuverable. So, it's easy to move to job sites. And easy to use on the job."

Same goes for my 310 Chipper. Its rotating feed feature saves me extra work. And it's powerful, yet controlled. Large branches and limbs are processed without branch whip or chip ricochet. So I feel comfortable when my wife uses it.

Now that Kay and I have Promark, we won't use anything less."

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Wayne Cole's Tree Service
Chino, CA

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INDUSTRY

Nor-Am gets U.S. rights to fungicide

Nor-Am Chemical Co. has reached an agreement with Nihon Nohyaku Co. of Tokyo, to give Nor-Am sole U.S. licensing rights to a new fungicide compound.

The fungicide, flutolanil, is already in use in some areas of Asia, where it has been used primarily on rice fields.

According to George E. Jones of Nor-Am, the company will conduct field trials over the next two to three years to accumulate data for submission to EPA for approval to market the product, directed at agriculture, turf and ornamentals.

He expects it to be at least three or four years before the product, which is as yet unnamed, will be released to the market.

DISEASES

Multiple diseases the bane of courses

Golf course superintendents are having an exceptionally hard time coping with diseases of turfgrass this summer, according to Houston Couch, Ph.D., of Virginia Polytechnic Institute and State University.

"I've gotten calls from Ohio, North and South Carolina, Colorado, Nebraska, Texas, California and elsewhere this year," says Couch. "People are controlling one disease but something else comes in. I know for a fact that there are people losing jobs over this problem."

Couch suggests that golf course superintendents not "lock in" on one disease, but be on the look-out for multiple pathogens.

"This is proving to be the year of the pathologist," he claims.

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101	115	129	143	157	171	185	199	213	227	241	255	269	283	297	311	325
102	116	130	144	158	172	186	200	214	228	242	256	270	284	298	312	326
103	117	131	145	159	173	187	201	215	229	243	257	271	285	299	313	327
104	118	132	146	160	174	188	202	216	230	244	258	272	286	300	314	328
105	119	133	147	161	175	189	203	217	231	245	259	273	287	301	315	329
106	120	134	148	162	176	190	204	218	232	246	260	274	288	302	316	330
107	121	135	149	163	177	191	205	219	233	247	261	275	289	303	317	331
108	122	136	150	164	178	192	206	220	234	248	262	276	290	304	318	332
109	123	137	151	165	179	193	207	221	235	249	263	277	291	305	319	333
110	124	138	152	166	180	194	208	222	236	250	264	278	292	306	320	334
111	125	139	153	167	181	195	209	223	237	251	265	279	293	307	321	335
112	126	140	154	168	182	196	210	224	238	252	266	280	294	308	322	336
113	127	141	155	169	183	197	211	225	239	253	267	281	295	309	323	337
114	128	142	156	170	184	198	212	226	240	254	268	282	296	310	324	338

**LANDSCAPE
MANAGEMENT**

AUGUST 1987

This card expires
Oct. 15, 1987

MY PRIMARY BUSINESS AT THIS LOCATION IS:
(PLEASE CHECK ONE ONLY IN EITHER
A, B OR C)

**A. LANDSCAPING/GROUND CARE AT ONE OF THE
FOLLOWING TYPES OF FACILITIES:**

- 0005 Golf courses
 0010 Sport complexes
 0015 Parks
 0020 Rights-of-way maintenance for highways, railroads & utilities
 0025 Schools, colleges & universities
 0030 Industrial & office parks/plants
 0045 Condominiums/apartments/housing developments/
hotels/resorts
 0050 Cemeteries/memorial gardens
 0060 Military installations & prisons
 0065 Airports
 0070 Multiple government/municipal facilities
 Other type of facility (please specify) _____

B. CONTRACTORS/SERVICE COMPANIES/CONSULTANTS:

- 0105 Landscape contractors (installation & maintenance)
 0110 Lawn care service companies
 0125 Landscape architects
 0135 Extension agents/consultants for horticulture
 Other contractor or service
(please specify) _____

C. SUPPLIERS:

- 0205 Sod growers
 0210 Dealers, Distributors
 Other supplier (please specify) _____

Approximately how many acres of vegetation do you
maintain or manage? _____

What is your title? (please specify) _____

I would like to receive (continue receiving)

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Your Signature: _____ Date: _____



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You'll quickly notice Mustang's finer texture, rich dark green color and dense, uniform turf—and you'll understand why we say Mustang has bluegrass-like qualities.

But there's more to Mustang turf-type tall fescue than beauty; it's tough and durable. It's heat and drought tolerance, winter hardiness, and ability to endure low mowing heights are remarkable. Mustang even shows improved resistance to *Helminthosporium* netblotch and many other diseases.

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For bluegrass qualities and tall fescue practicality, use the professional's choice—Mustang turf-type tall fescue.

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Here's why the best superintendents can't

1

NEW BANNER® GIVES YOU LONGER LASTING CONTROL OF DOLLAR SPOT AND BROWN PATCH.

You know how quickly fungus diseases can wreak havoc in your greens. Which is exactly why Banner's new systemic, longer-lasting chemistry for turf has been so eagerly awaited.

Because of its systemic action, one spraying of Banner lasts 14 to 21 days on brown patch. And provides up to 28 days of excellent control on dollar spot at a 2 oz. rate.

2

SYSTEMIC, PREVENTIVE CONTROL.

Now you can stop disease before it gets started. Banner works systemically to control disease from the inside out. Once Banner is quickly absorbed by the leaf and root system, it won't wash off. It keeps on working after drying, unaffected by rain or irrigation.

Banner also goes on to prevent powdery mildew, rust, anthracnose, red thread and stripe smut.