

# NORTHWEST TURFGRASS TOPICS

VOL. 8, No. 3

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## From The President's Corner

By Dick Malpass

The extent to which interest is growing in fine turf management was evident at the recent Northwest Turfgrass Association Conference held at Salishan Lodge, on the Oregon Coast. As it has the past several years, this conference continues to draw an increasing number of participants. This reflects not only the growth in the number of golf courses in the Northwest, but in other recreational facilities as well. It also reflects the interest in the degree of maintenance desired for recreational facilities and landscaped areas.

Mr. Herb Graffis, Executive Editor of "Golfdom" wrote the Oregon Turf Management group sometime ago and stated, "It is worth at least \$100 for a club to send their superintendent to attend a turf association meeting." It is unfortunate that more officers and directors of facilities involving turf care do not see the value of their turf managers and superintendents attending these worthwhile meetings. Much is often learned by discussing with others of like profession specific problems in addition to that which is acquired at formal sessions. Certainly, anyone with a desire to advance himself in his chosen profession as a turf manager and who has a sincere desire to learn, found much to interest him during the Salishan meeting. We would suggest that all members of the Associa-

tion note the subject matter covered at this meeting and resolve that they will be represented at the next annual meeting.

We could not but be pleased at the remark by Walter Boysen, Vice President of the Golf Course Superintendents Association of America, when he left the conference. He stated that this had been one of the most interesting he had ever attended, that the list of speakers and subject matter was outstanding, and that those attending showed by their interest and participation that they truly enjoyed the meeting.

Your officers and board of directors welcome suggestions for subjects to be considered at the next annual meeting of our Association. Please send them, soon, to your directors or to Dr. Roy L. Goss, Executive Secretary, at the Western Washington Research and Extension Center, Washington State University, Puyallup, Washington.

## I'M TIRED OF POA ANNUA

Dr. W. H. Daniel

### Editor's Comment

We have published several articles on Poa annua. Some of these are based upon our own research and observations and some are from other areas. Dr. W. H. Daniel, turfgrass specialist in the Department of Agronomy at Purdue University, published in their Midwest Turf News Letter this article and, with his kind permission, we are bringing to you excerpts from his story. It goes something like this:

Well, how about you as a turf manager? Are you tired of its failure, excess seed heads, and need for special care?

Frankly, it's time the good clubs extend renovation beyond the grill and card room and make the golf course grass modern, too. It's a shame that after many years of the "best" management, the fairways on many golf courses

are over 90% Poa annua and getting worse. It's a shame to keep using chemicals and care to maintain Poa annua; yet, have it respond so uncertainly. So, I am tired of Poa annua--in fairways, in greens, in tees, and all over. When a good turf manager at a good club loses in spite of Herculean efforts--90% of his existing turf, that's enough to tell me there is a better way.

But, what is better? Isn't Poa annua good in fall and spring? Yes! Can't it be cut close? Yes! Doesn't it reseed itself? Yes, bountifully! Isn't it an attractive light green color? Yes! Doesn't it reheal itself during good conditions? Yes! Isn't it tolerant of any nutrition? Yes! Doesn't it tolerate compaction? Yes! Even sounds good to describe them.

Well, why then do we call Poa annua "failure grass" and are so tired of it? Simply, that its limited ability to adapt to extreme conditions causes failure at key times. Let's look at some of its problems.

1. If winter killing comes--from smothering by ice and snow, "failure grass" is the first to go--then it's missing when spring use comes. The threat of failure is always there, thus the concern.

2. Its excessive seed heads--they are hard to mow, contaminate all adjacent areas, and are unsightly as clippings. Its growth is excessive in wet spring weather when mowing is most difficult. Thus, the thatched, thick, fast-growing Poa annua is always ready to become "failure grass".

3. Disease and wet weather. Hot humid days and nights characterize weather periods in the Midwest and elsewhere. Extra rain, long periods of dampness of leaf, ponded water, high nutrition, and watch out! I have seen a fairway of "failure grass" half killed in one day that was hit by the wet wilt combo.

### Editor's Comment

This is one problem we don't have to worry about too much here in the Northwest since most of our nights are cool. There are rare occasions when this can happen and we can get hurt by the same problem.

4. Drought and dry weather. Hot dry winds and hot dry soils will produce "failure", also. The shallow-rooted Poa annua is comparatively weak, and its transpiration rate is high. Also, it has little drought protection mechanism--folding of leaves and hairs are missing--and the result, "failure grass"--and its measured in hours, not days.

5. Wear and wilt. You have seen 3 tracks of every golf cart out from 2:00 to 5:00 P.M. some days. The bruising wasn't much but, added to drought stress already in the leaves, the grass died quickly. See the cup setting of last Sunday--the "failure grass" died before hand rinsing was done. And, when dry soils, wilt and wear combine, it's "failure grass".

### Editor's Comment

You have all seen this whether it be a home lawn, golf course, park, cemetery, or other turfgrass area. I have seen it following aerification where water wasn't applied quickly enough following the practice.

### Plan a 5-Step Program For Renovation

1. Plan the switch--when--start early fall or early spring to be strict and replace Poa annua. Where? Just any part of the total area infected by Poa annua, regardless of the size. Get a start somewhere. How fast--there is time, just begin divided applications to develop a toxicity level in one calendar year.

2. Introduce the desired. It takes repeated overseeding and time, so start in early fall with light and repeated seedings to take advantage of open space and weather changes. What? A blend of bluegrasses is preferred, but the same techniques apply to a blend of bentgrasses. Choose these selections best adapted and available. Merion, Winsor, Delta, Park, Newport, and Common are available bluegrasses. Prato, Cougar, Delft, and etc. may be offered, and new dwarf varieties are needed.

### Editor's Comment

Cougar is now available.



Tolerance to disease and close cutting plus seed are desired. Don't wait for new varieties not now available. Just upgrade with these later.

Use light seed rates. Use 20 to 40 pounds of seed per acre, even less if slit or trench-seeded. Then repeat 3 to 4 weeks later and again late next winter and early next fall. This totals 4 times for chances for introduction.

### Editor's Comment

This points out the need that we have stressed before that you must keep seed from the desirable species available for germination and establishment. If you don't provide it, nature will and it will usually be Poa annua.

3. Restrict the competition of Poa annua. Neburon and several pre-emergents could be used. With Neburon older Poa annua can be killed under ideal conditions--at 4 pounds A per A in mid April. Then only existing perennial desired grass is available for summer use--so, careful first use in small plots is suggested.

### Editor's Comment

Contacts with the DuPont Company have indicated that Neburon is not available on the market any longer in this area. It possibly may be in other areas of the United States.

With Pre-San or Betasan, Benefin, Dacthal, Zytron, Bandane, Azak, etc., the dosage for prevention of Poa annua seedlings will also stop desired grass seedlings. Thus, their use is limited to areas where desired grass is already well established and where existing Poa annua is killed by drought or chemicals as combined clean-up--then--prevent program. So, that leaves our cynicals which can selectively restrict and kill old Poa annua and prevent new competition by root zone toxicity. Lead or calcium, or any arsenate could work, but calcium arsenate is the most economical, selective, and widely used. The principal of selectivity is that roots will take up arsenic, but leaves won't translocate arsenic, so plant growth is restricted.

### Editor's Comment

Dow Chemical Company has now announced that Zytron is no longer available on the market, therefore, don't look for it, that is, unless some other company obtains permission and equipment to manufacture the chemical. Our best results in this area on Poa annua restriction have come with the use of Dacthal, Betasan, and Azak.

4. Promote the desired--keep it growing--

a. By irrigation - green leaves make energy for new growth--so save a crop of leaves and increase the spread.

b. By disease reduction - maybe 4 sprays per year can avoid loss during severe disease periods.

c. By wear distribution - move the wear pattern, if possible. Extra aerifying and watering can save grass.

d. By spot repair - plugs, reseeding and mulching of critical spots makes a big difference in developing uniformity.

e. By ample nutrition - match nitrogen and irrigation to keep the rhizomes growing.

f. By renovation-thatch control and vertical grooving and aerifying help make room for new growth close to the ground and also dilute thatch with soil.

5. Stay on the program and make a plan.

a. For fertilizer use ample nitrogen and one half as much K, but no P until Poa annua is under control, then use very little P at any time.

### Editor's Comment

Recommendations in the Pacific Northwest, particularly west of the Cascade Mountains, has been to use 2/3 as much potassium as nitrogen, particularly on putting greens. If potassium levels are high, as indicated by a soil test, apply potassium sparingly or as recommended.

b. Maintain toxic levels of pre-emergent herbicides to prevent Poa annua germination.

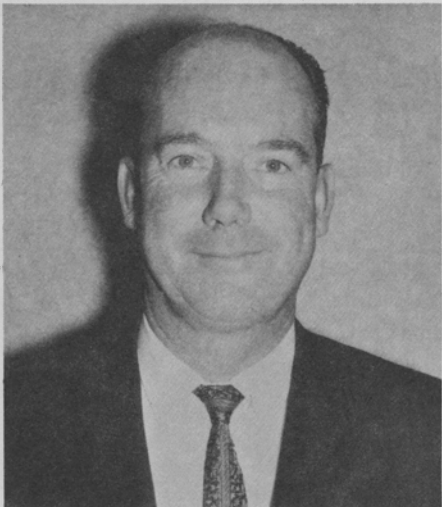
## What Do You Want

Turf managers can change programs quickly, but wise ones have always carefully measured new ideas before changing. For 15 years--since 1951--this writer has seen results and examples of Poa annua control which have been stated in here before. Now, I am tired of "failure grass" as it performs in fairways of good golf courses in the Midwest.

What a big improvement 2,4-D gave in broad-leaf weed control! What an improvement clover control provided, and now knotweed is easily controlled! Is Poa annua your next removal project? Are you tired of "failure grass" too? If so, begin a program of eradication--even if just one-half a fairway. Others have succeeded, but they will tell you, it takes time.

### Editor's Comment

There are a lot of good suggestions in this article by Dr. Daniel. If you are sincerely interested in getting rid of Poa annua, it can be done but it takes time, a lot of work, and will cost you a little money.



### **From the Oregon Compost Heap**

By Byron Reed

I use this opportunity to thank all of you who made the Northwest Turfgrass Conference at Salishan Lodge the huge success that is now history. The directors of the Northwest

Turfgrass Association have given the green light to plan the 1969 conference at Salishan Lodge.

Meeting plans are final for the Oregon Turf Managers Association for 1967. January 9, 1967, Colwood Golf Club; January 30-31, 1967, Oregon State University Short Course, Corvallis Country Club, guest speaker, Dr. Gene Nutter, Turfgrass Times editor and publisher; March 6, 1967, McNary Golf Club, Salem, Oregon; April 3, 1967, Spring Hill Country Club, Albany, Oregon; May 1, 1967, Agate Beach Golf Club, Newport, Oregon; June 5, 1967, Bend Golf Club, Bend, Oregon.

We here in Oregon extend our invitation for all of our friends in Washington to attend any or all meetings of the Turf Managers Association.

## **OREGON TURF AND ORNAMENTAL WORKSHOP TO BE HELD**

By Norman Goetze

The annual Oregon Turf and Ornamental Workshop will be held on Monday and Tuesday of January 30 and 31, 1967. This is always a good conference, especially aimed at the wide range of interested people in the field of turf and ornamentals. Landscapers, nurserymen, greenhouse operators, golf course people, school maintenance, and almost anyone else in this major industry can benefit by attending these sessions. For those primarily interested in turfgrasses, the major session will begin Monday afternoon. There are 5 nice topics on the agenda to be covered as follows:

1. Turfgrass Research Needs will be presented by Dick Malpass, President of the Oregon Turf Management Association and President of the Northwest Turfgrass Association.
2. English Turfgrass Management Practices by Victor A. Gibeault, formerly of Sports Turf Research Institute at Bingley, Yorkshire, England.
3. Exploring the Uses of Sod by Lloyd Bond Landscape Architect, Eugene, Oregon.



4. Review of Sod Management Research by Willard Lighty, Multnomah County Extension Agent.

5. Producing and Marketing Sod by Dr. Gene C. Nutter, Editor, Turfgrass Times.

On Monday morning before the turf session begins there will be a regular monthly meeting of the Oregon Turfgrass Management Association to be held at the Corvallis Country Club. Dr. Gene Nutter will be the featured speaker at this meeting.

Monday evening there will be a no-host social hour and dinner meeting at the Toa-Yuen Restaurant in Corvallis. This will constitute a general round-table and friendly discussion of turfgrass management problems.

On Tuesday, during the general sessions where everyone can attend, there are 3 or 4 very interesting topics:

1. Recruiting, Training, and Keeping Top Quality Men by Dr. Gene Nutter.

2. Small Business Management and Financing by E. W. Lawson.

3. Education and Training for Careers in Ornamentals by O. A. Batchellor.

4. Containers for Nurserymen.

This promises to be a real fine conference and should come at a time when many of you aren't too badly swamped with work, so come on out and join us in this session.

## **The Northwest Turfgrass Association's 20th Anniversary**

The Northwest Turfgrass Association celebrated its 20th Anniversary by holding its 20th annual turf conference at the Salishan Lodge at Gleneden Beach, Oregon, on October 26, 27, and 28, 1966. Appropriate to the occasion, this was the largest turfgrass conference ever held in the Pacific Northwest. Over 185 persons registered to attend the conference sessions, and more than 230 men and women

attended the annual banquet. A deluge of rain, as only it can happen on the Washington and Oregon coasts, discouraged all but the best swimmers from participating in the pre-conference golf tournament. We look at this with mixed emotions because it did help to complete registration and fill the conference hall with interested participants from the very beginning. The weatherman did give us a break, however, and produce beautiful weather on Thursday and Friday of the conference. Persons attending the conference were very pleased to have the opportunity to play the challenging golf course at Salishan.

### Speakers Presentations were Excellent

Since most readers of the Turfgrass Topics have already received the Proceedings from the conference, you have no doubt read the papers presented by the speakers by now. It is interesting to point out, however, that many topics covered by the speakers stimulated excellent discussion and questions which helped to clarify many problems in the minds of persons attending this conference. We are very appreciative of the excellent presentations by all speakers, and we are particularly indebted to those such as Dr. Jim Watson, Charles G. Wilson, Bill Bengeyfield, and Stan Frederiksen who traveled long distances to help make our conference a success.

## **New Turfgrass Association Officers and Directors for 1967**

Dick Malpass, Superintendent of the Shadow Hills Golf & Country Club at Eugene, Oregon, was nominated President of the Northwest Turfgrass Association for the next year. Dick has been a most progressive and ardent supporter of turfgrass progress, even though he is a relatively new member in the Association. George Harrison, NuLife Fertilizer Company, Tacoma, Washington, was elected Vice President. George has worked hard over the several years in publicizing the Association and its events and has been instrumental in bringing in a number of new members.

The Treasurer's position and the Executive Secretary's position will remain the same for

the next year. Dick Haskell, who has done an outstanding job as Treasurer for the past several years, will continue in the future. Dr. Roy Goss, who has been serving as Executive Secretary, will continue filling that position.

At the annual membership meeting three new directors were elected: John Zoller, Eugene Golf & Country Club, Eugene, Oregon; Dick Mitchell, Shaughnessy Golf & Country Club, Vancouver, British Columbia; and George Harrison, NuLife Fertilizer Company, Tacoma, Washington, replaced Manny Gueho, Vancouver Country Club, New Westminster, British Columbia; Harvey Junor, Portland Golf Club, Portland, Oregon; and Jack Daniels, Greenup Spray Service, Seattle, Washington.

## **Northwest Turfgrass Association Board of Directors Meet**

The Northwest Turfgrass Association Board of Directors met at Portland, Oregon, on Monday, December 12, 1966, to conduct its regular order of business and discuss plans for the next turfgrass conference. President Dick Malpass called the meeting to order at 5:00 P.M. and all but two directors were in attendance. Dr. V. C. Brink from the University of British Columbia attended the meeting with Dick Mitchell, a director. Dr. Norman Goetze, from Oregon State University, attended part of the meeting.

Dick Mitchell read correspondence from Frank Gavan who resides at Victoria, British Columbia, to the effect that the Empress Hotel would not be available for the conference in 1967. Dick had contacted the Harrison Hot Springs Hotel for tentative reservations for the conference and they had accepted our dates of September 27, 28, and 29, 1967. The board of directors unanimously voted to authorize Dick Mitchell to book the Harrison Hot Springs Hotel for the conference site for that time. Most people in the Pacific Northwest are familiar with the Harrison Hot Springs facilities but, for those who are not, we feel that you will find it a very interesting location. It has a beautiful setting near the Cascade Mountains and has natural hot springs, beauti-

ful hotel facilities, indoor recreation features, and a golf course nearby. This, again, will be a setting where everyone can be at the same location without the problem of city traffic.

The board of directors accepted the invitation of the Alderbrook Inn at Union, Washington, on Hood Canal for the 1968 conference and further gave approval to the Oregon Turf Management Association to obtain a booking at Salishan Lodge for the turfgrass conference in 1969. Byron Reed will look into this matter and report back later.

The balance of the director's meeting was devoted to developing a program for the 1967 turfgrass conference. A list of about 15 topics with a great diversity of interests were suggested. The machinery is already in motion for contacting prospective speakers, and we hope to have a program lined up and firm by May or June of 1967.

## **Evergreen Chapter of G. C. S. A. A. Met at Salishan**

By Dick Malpass

Members of the Evergreen Chapter of the Golf Course Superintendents Association of America met for a business breakfast meeting on Thursday, October 27, during the Northwest Turfgrass Association Conference. Present were 16 members of the GCSAA from the States of Oregon, Washington, and from British Columbia.

Dean W. Latimer, Course Superintendent, Fort Lewis Golf Club, Fort Lewis, Washington, was elected President for the coming year and Dick Malpass, Superintendent, Shadow Hills Country Club, Eugene, Oregon, was re-elected Secretary.

Walter Boysen, Vice President, GCSAA, was also present and reported on the function of a number of committees of the national association. He reminded members of the national convention to be held in Washington, D. C., February 5-10, 1967, and at San Francisco the following year. Members of the Associa-



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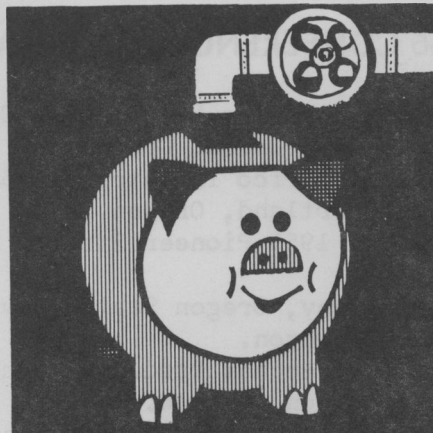
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tion were encouraged to interest more superintendents in joining the national organization and to continue to advance themselves professionally.

Secretary Dick Malpass presented a plan to charter a bus and to take a number of professional turf managers south to visit a number of golf courses in California. Assistance in this project was pledged by Walter Boysen and by William Bengeyfield, Western Director, Green Section, United States Golf Association. All who indicated interest in this trip, at Salishan, are urged to contact Secretary Malpass, 880 Sovern Lane, Junction City, Oregon, or Byron Reed, E. P. Baltz & Son Company, 9817 E. Burnside Street, Portland, Oregon. It is planned that this trip will take place the third week of January, 1967. Cost of the 8-day trip will approximate \$125 per person. It will originate at Portland, Oregon, and go possibly as far south as Los Angeles and return.



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## 1966 CONFERENCE ATTENDANCE

1. Don Aasen, Coquille Valley Elks CC, Fairview Route, Coquille, Oregon
2. Fred Adams, Turfco Industries, 3525 N. E. Broadway, Portland, Oregon.
3. Milt Allen, 1955 Pioneer Street, Enumclaw, Washington.
4. Arnold Appleby, Oregon State University, Corvallis, Oregon.
5. Dick Bailey, Amchem Products, Inc., Box 1387, Pendleton, Oregon.
6. Dick Bailey, W. R. Grace & Company, Halsey, Oregon.
7. Tom Baltz, Baltz and Son Company, Portland, Oregon.
8. Harvey Banks, Kitsap G & CC, 6800 Country Club Road, Bremerton, Washington.
9. Roscoe Baptiste, Michelbook GC, McMinnville, Oregon.
10. Tom Bartol, 4849 S. E. 113th, Portland, Oregon.
11. Clayton Bauman, Meridian Valley CC, 24706 S. E. 132nd, Kent, Washington.
12. Milt Bauman, Overlake CC, Medina, Washington.
13. Norris Beardsley, Spokane CC, 11809 N. Hemlock Street, Spokane, Washington.
14. Bill Bengueyfield, USGA Green Section, Box 567, Garden Grove, California.
15. Jesse L. Bishop, McChord AFB Golf Course, 5505 - 11th Street, Tacoma, Washington.
16. Allen C. Blair, Puget Sound Seed Company, Seattle, Washington.
17. Wilbur L. Bluhm, Marion County Extension Agent, Salem, Oregon.
18. Ollie Boyenger, Hillcrest CC, Box 4610, Boise, Idaho.
19. Walter R. Boysen, Sequoyah CC, 4028 Fairway Avenue, Oakland, California.
20. Babe Brinkworth, Toro Mfg. Corporation, 811 Lyndale Ave., Minneapolis, Minnesota.
21. Charles Cartwright, Seaside GC, 451 Ave., Seaside, Oregon.
22. Edward J. Chaffee, Chaffee-Zumwalt & Assoc., 7520 Bridgeport Way, Tacoma, Washington.
23. Robert B. Cockburn, Earlybird Spray Co., 1523 - 63rd Avenue, Everett, Washington.
24. Ron Collins, Velsicol Chemical Corp., 1387 N. E. Arrowood Dr., Hillsboro, Oregon.
25. Virgil Clark, Box 4294, Everett G & CC, Everett, Washington.
26. Ray Coleman, Lake Wilderness GC, Route 2, Box 2170, Maple Valley, Washington.
27. John R. Craig, Eagle-Picher, Inc., Cincinnati, Ohio.
28. Martin L. Culp, 673 Golf Course Lane, North Bend, Oregon.
29. Bud L. Cox, Jenks White Seed Co., Box 267, Salem, Oregon.
30. Wayne Dean, Yakima Metro. Park Dist., Box 171, Yakima, Washington.
31. Norman D. DeChambeau, Useless Bay G & CC, Route 1, Langley, Washington.
32. M. F. Deshler, Pine Acres Par 3, 11912 N. Division, Spokane, Washington.
33. Art Donaldson, Capilano GC, Southborough Drive, West Vancouver, B. C. Canada.
34. Peter Dotto, Marine Drive GC, 57 S. W. Marine Drive, Vancouver, B. C. Canada.
35. Edward G. Drake, American Excelsior Corp., Box 128, Moxee City, Washington.
36. Arthur D. Elliott, Toro Supply, 6001 Maynard Avenue S., Seattle, Washington.
37. Cliff Everhart, Manito G & CC, Box 8025, Manito Station, Spokane, Washington.
38. R. H. Faulkner, A-1 Spray Service, 520 S. 53rd, Tacoma, Washington.
39. Fred Federspiel, 16755 S. W. Pacific Highway, Lake Oswego, Oregon.
40. Bernie Fischer, Buckner, Inc., 10325 Estate Drive, Boise, Idaho.
41. Max Fletchall, Tualatin CC, Tualatin, Oregon.
42. Edward Fluter, 923 N. E. 155th, Portland, Oregon.
43. Dick Fluter, Oswego Lake CC, Lake Oswego, Oregon.
44. Harold R. Fosterman, Eastmoreland GC, S. E. 28th & Bybec St., Portland, Oregon.
45. Stan Frederiksen, Mallinckrodt Chem. Wks., 3600 N. 2nd St., St. Louis, Mo.
46. Russ Fouts, Springfield CC, Albany, Oregon.
47. William Gabel, Memorial Park GC, Reese Avenue, Walla Walla, Washington.
48. Ray E. Garner, 2232 E. Burnside, Portland, Oregon.
49. Frank Gavan, Cedar Hill GC, 1961 Ernest, Victoria, B. C. Canada.
50. Dick Gettle, Fircrest GC, 9003 Lenox Avenue S. W., Tacoma, Washington.
51. David Gianoli, Columbia-Edgewater CC, Portland, Oregon.
52. Jim D. Gieger, Swift & Co., 13045 S. E. Stark, Portland, Oregon.
53. Murl Goddard, 807 N. 3rd Street, Yakima, Washington.



54. Roy L. Goss, Western Washington Research & Extension Center, Puyallup, Washington.
55. Charles J. Gould, W. Washington Research & Extension Center, Puyallup, Washington.
56. Homer Gray, Corvallis Country Club, Corvallis, Oregon.
57. Thomas Gray, Progress Downs GC, Portland, Oregon.
58. Manny Gueho, Vancouver G & CC, Vancouver, B. C. Canada.
59. John Haberlin, Haberlin Nurseries Ltd., 8387 Salkirk Street, Vancouver 14, B. C.
60. Clifford W. Hall, Hoyt Pitch and Putt, City of Portland Parks, Oregon.
61. Carl Hansen, Chevron Chemical Co., 200 Bush Street, San Francisco, California.
62. Bond Harmon, Elks G & CC, Selah, Washington.
63. George Harrison, NuLife Fertilizer Co., Box 883, Tacoma, Washington.
64. John Harrison, Hayden Lake CC, Hayden Lake, Idaho.
65. George Harvey, Astoria CC, Route 1, Warrenton, Oregon.
66. Allen Hart, O. M. Scott & Sons, Oakland, California.
67. Dick Haskell, Seattle Park Department, 1000 N. E. 135th, Seattle, Washington.
68. Leonard T. Hays, Salishan GC, Gleneden Beach, Oregon.
69. Jack C. Hochhaus, Box 369, Vancouver, Washington.
70. Holding, Towne Equipment Company, Portland, Oregon.
71. Don A. Hogan, 1703 Dexter Avenue N., Seattle, Washington.
72. Andrew W. Hoiland, Illahe Hills CC, Box 3168, Salem, Oregon.
73. Dave E. Hulo, United Supply, 1114 S. 30th, Tacoma, Washington.
74. Edward T. Jackson, 11061 Sunset Highway, Bellevue, Washington.
75. John Jaslowski, Broadmoor Golf Club, Seattle, Washington.
76. Walt Jefferson, Wenatchee G & CC, 571 Dayton Avenue, Wenatchee, Washington.
77. Ed Jennings, Snohomish Golf Course, Route 4, Box 93, Snohomish, Washington.
78. Wesley M. Johnson, Alderbrook Inn, Union, Washington.
79. Bud Johnson, Alderbrook Inn, Union, Washington.
80. Richard P. Jenks, Sod Grower, Box 492, Lebanon, Oregon.
81. Jack Jung, Velsicol Chemical Co., 3675 Williams Rd. #8, San Jose, California.
82. Harvey Junor, Portland Golf Club, 5900 S. W. Scholls Ferry Rd., Portland, Ore.
83. Art Kains, Wayne Golf Course, Bothell, Washington.
84. Herman J. Kanzler, Oregon Toro Distributors, Portland, Oregon.
85. Tom Keel, Director of Parks, Douglas County, Roseburg, Oregon.
86. Dave P. Killen, Box 971, Twin Falls, Idaho.
87. Heinz Knoedler, Northern Industries, Ltd., Vancouver, B. C. Canada.
88. Don Kolassa, Turf & Toro Supply, Inc., E. 114 Trent St., Spokane, Washington.
89. Henry W. Land, Sr., Tacoma G & CC, Gravelly Lake Dr., Tacoma, Washington.
90. Ray Larson, Lake Oswego School Dist., Lake Oswego, Oregon.
91. Bob Larson, Bellingham G & CC, 1020 E. Bakerview Road, Bellingham, Washington.
92. Bryant Larson, Oregon Toro Distributors, Portland, Oregon.
93. Howard Larson, Scott Lake Golf Course, Route 4, Box 393A, Olympia, Washington.
94. Robert Lateer, Loamite Corp., One Bush Street, San Francisco, California.
95. Dean Latimer, Fort Lewis GC, 11804 Woodbine Lane S. W., Tacoma, Washington.
96. Alvin G. Law, Dept. of Agronomy, WSU, Pullman, Washington.
97. Willard Lighty, Multnomah County Agent, 1035 S. E. 225th, Gresham, Oregon.
98. G. A. McKay, Squamish Valley G & CC, Box 982, Squamish, B. C. Canada.
99. Robert McKay, County Agent, Olympia, Washington.
100. Ken McKenzie, Pacific Agro Company, Seattle, Washington.
101. Richard Malpass, Shadow Hills CC, 880 Sovern Lane, Junction City, Oregon.
102. Bill Martin, Agate Beach Golf Course, Box 1416, Newport, Oregon.
103. Nick Metal, Globe Fertilizer Co., Ltd., Ft. Crompton Road, Vancouver, B. C.
104. Joe Mihelich, Enumclaw Golf & Country Club, Enumclaw, Washington.
105. Ed Minnick, County Agent, Chehalis, Washington.
106. Richard C. Mitchell, Shaughnessy G & CC, 4300 S. W. Marine Dr., Vancouver, B. C.
107. Max Moore, Colony Park GC, 5621 Des Moines Rd., Kent, Washington.

108. Kenneth J. Morrison, Washington State University, Pullman, Washington.
109. Desmond Muirhead, Muirhead-Sarazen-Caldwell Co., Santa Ana, California.
110. Bob Murphy, Chilliwack G & CC, 41994 RRI, Sardis, B. C. Canada.
111. Erich Mueller, H. D. Fowler Co., 13440 S. E. 30th, Bellevue, Washington.
112. Charles Nolan, Salishan Golf Club, Gleneden Beach, Oregon.
113. Jack O'Connor, Loamite Corporation, 1 Bush Street, San Francisco, California.
114. Richard Oliphant, Chas. Lilly Co., 109 S. E. Alder, Portland, Oregon.
115. E. H. Peterson, Okanogan Valley Golf Club, Okanogan, Washington.
116. Robert Pierson, Coos Country Club, Route 3, Box 248, Coos Bay, Oregon.
117. Wm. Pierson, Diamond Alkali Co., 14073 S. W. Goodall Road, Lake Oswego, Oregon.
118. Joe Pottenger, Suntides Golf Course, Rt. 8, Box 82, Yakima, Washington.
119. Don Postlewaite, Tektronix Inc., 500 Beaverton, Oregon.
120. Glen Proctor, Rainier G & CC, 2222 S. 111th Place, Seattle, Washington.
121. Larry Proctor, Oakbrook Golf Club, 7839 S. Wilkeson, Tacoma, Washington.
122. Ronald Proctor, Rainier G & CC, 13625 S. 28th Place, Seattle, Washington.
123. Charles Putnam, Turfco Industries, 3525 N. E. Broadway, Portland, Oregon.
124. Kenneth Putnam, Seattle Golf Club, 145 N and N Greenwood Avenue, Seattle, Wash.
125. Stan G. Raplee, Washington Tree Service, 17868 - 28th Ave., N. E. Seattle, Wash.
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139. Ray Schmidt, Coeur d'Alene GC, Box 654, Coeur d'Alene, Idaho.
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143. Daniel Schultz, Arrowhead Golf Club, Rt. 2, Box 459, Molalla, Oregon.
144. Richard Schwabauer, Murphy Road, Bend, Oregon.
145. Elmer Sears, Forest Lawn Cemetery, 6701 30th Ave. S. W., Seattle, Washington.
146. Hans Seidlitz, Point Grey G & CC, 3350 S. W. Marine Dr., Vancouver, B. C.
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148. Al L. Smith, Seattle Park Department, Volunteer Park House, Seattle, Wash.
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150. William G. Steveley, Battle Creek GC, Route 4, Box 157, Salem, Oregon.
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152. Rodney Strauss, Park Director, Roseburg, Oregon.
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169. Rudy Werth, Jackson Park GC, 1000 N. E. 135th Street, Seattle, Washington.
170. Charlie Wilson, Milwaukee Sewerage Comm. Box 2079, Milwaukee, Wisconsin.
171. Alfred H. Wismer, Tektronix, Box 500, Beaverton, Oregon.
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173. Norman H. Woods, Box 204, Postal Sta-tion A, Vancouver, B. C. Canada.
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