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Poa annua, annual meadow grass, or as it is known in the USA, annual bluegrass, forms the world’s most prolific species of amenity grass. To live with it remove it or replace it, is a continuing subject for debate.

Stanley J. Zontek, an agronomist with the United States Golf Association examines the latest methods of control or culture.

Of all the puzzles in turfgrass management, the one involving POA ANNUA and whether to live with it or attempt to control it, is perhaps the most enduring. It has been on the minds of turfgrass managers since at least the early 1920s, when one writer recommended removing it from greens by continual hand weeding.

With modern equipment, new chemical tools, and a better understanding of the plant itself, golf course superintendents are in the best position ever to decide whether to live with annual bluegrass (annual meadow grass) or to control it. The game has come a long way since Dr. Fred V. Grau wrote his memorable article “Poa annua - Friend or Fo?” for the Green Section, in 1948. Golf course superintendents in the northern sections of the United States now have a choice.

1. Arsenical compounds

The verti-drain is probably the best piece of turf grass equipment since the invention of the hand fork.

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Control

Realistically, Poa annua can be controlled by two methods. First, certain chemicals can either kill the plant or control its germinating seeds, or they can do a combination of both. A second method uses cultural practices such as aeration, irrigation, and fertilization. A single chemical or management practice rarely controls Poa annua by itself. The best results are obtained when all those programs are meshed together.

Which program to use should be governed by what is best for you and your course and what materials are registered for use. As always, be sure to follow the labeled rates and suggested timings. Keep up to date. Continuing field and university testing provides new information all the time.

Finally, before you begin these chemical control programs it is always a good idea to see how they will work by testing them first on a limited area of the course. Besides, it is also a good idea to demonstrate to the golfers themselves how these chemicals are used and what they can expect from their application. This experience and exposure is valuable for the success of the program.

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4. Rubigan (Fenarimol)

At higher application rates, Rubigan shows similar plant growth regulating effects as we discussed above. Because this chemical is also labeled as a fungicide and has some pre-emergence effect on controlling Poa annua seed, it is included as a separate item. Some users believe this is an advantage. Gradual suppression of Poa annua (especially the annual types) and disease control are notable qualities. To date, the best results with Rubigan have been achieved where it has been used in a continuing, long-term program. This includes applications in the fall, when some preemerge control of Poa annua seed can also be achieved. One should not expect results after only one or two applications. A Rubigan program requires some patience.

This product is marketed in Britain by Elanco.

5. Roundup/Paraquat/Simazine

Although different compounds, these are grouped together for convenience. They all offer almost complete Poa annua control in bermudagrass when they are applied at the correct rate and properly timed. Many superintendents consider this a minor inconvenience, however, when they compare it to eliminating the nuisance of profuse seedhead production of annual bluegrass each spring. Pendimethalin is marketed as STOMP by Cyanimide.

6. Embark (Melfluidide)

This compound is included in the control portion of this article even though Embark does not, per se, control Poa annua. It does, however, control Poa annua seedheads when the material is properly timed and applied in the spring. Embark has worked well so far, although it has caused some discoloration early in the spring. Many superintendents consider this a minor inconvenience, however, when they compare it to eliminating the nuisance of profuse seedhead production of annual bluegrass each spring. Marketed by May & Baker as MOWCHEM.

7. Other chemicals

Included in this category are sulphur, preemerge herbicides such as Bensulide, Dacthal, Balan, and Pendimethalin, and post-emerge herbicides, like Endothal. All of these materials can be used in Poa annua control programs. In the final analysis, the choice depends upon how you wish to use the strengths of each of these materials to suppress and control annual bluegrass under the unique conditions found on your course. Some of the products have dual purposes. You may use sulphur to lower soil pH while at the same time suppressing Poa annua. You may be using a preemerge herbicide to control crabgrass or other weeds and also suppress germination of Poa annua seed as well.

IMPORTANT WARNING

The chemicals listed in this article concern research conducted in Universities and trials in the U.S.A. Some products are available in the UK under other brand names, though they have not necessarily been cleared by the Ministry of Agriculture for use on amenity turf. The recommendations must not be taken literally and can only be applied according to the directions by the UK distributors. Some products may be banned in this country as are the arsenical compounds. The advice of your local supplier must be sought in all instances.
8. Management

No discussion of Poa annua control would be complete without discussing good management. You may have the best compatible management program in the world to control Poa annua, but if a compatible management program is not in place, the chemical approach will not be as successful. Such factors as proper timing of aeration (Poa annua grows better than other grasses under compacted soil conditions), frequent topdressing, proper nitrogen application, and proper total amounts of nutrients applied, proper soil pH, good water control (never overwatering), and even the physical removal of annual bluegrass, whether by plugging or by re-sodding an area, are all included in the management category. But even the clipping and removal of clippings must also be included in management. Research at Michigan State University shows what many good golf course superintendents have observed for years, that on bentgrass/Poa annua fairway turf maintained with lightweight mowers, once the clippings are removed, bentgrass predominates with time. It literally crowds out the Poa annua. The phenomenon seems hard to believe but it is a fact. All of the mechanisms to explain what is occurring are not thoroughly understood (thus the University research), but one of the most effective ways to keep Poa annua control in fairways (cut at 3/8" to 5/8"-inch) is a lightweight mowing and clipping removal program. In fact, if there is a single program to follow for keeping the total amount of Poa annua in bentgrass fairways or tees, this is it.

Lightweight mowing and clipping removal as an ongoing program also contributes to keeping the Poa annua alive during the summer. In many ways, this is almost a perfect combination. The fairways look good and play well while there is an ongoing conversion from annual bluegrass to bentgrass. The only negative aspect is the cost of the machinery and the extra manpower necessary to operate it and dispose of the clippings.

These, then, are the Poa annua control programs seen most often in the field today. No one program is a panacea. The choice of what control program you should choose depends on your individual situation: what you have to work with, what your golfers want, and what they are willing to pay for and tolerate.

Poa annua Maintenance

Over the past decade, a number of good golf courses and good golf course superintendents have made the decision to encourage, cultivate, and generally live with Poa annua as their principal golf turf, whether it is on greens, on tees, or on the fairways. Years of research (largely supported by the USGA) has uncovered a great deal about the strengths and weaknesses of annual bluegrasses. In order to keep Poa annua alive, the superintendent must accept the strengths of the grass and minimize its weaknesses. It is clear now also that annual bluegrass encompasses a whole range of different biotypes. Some include true annuals, biennials, weak perennials, strong perennials, types that produce profuse seedheads, few seedheads, or no seedheads at all. Therefore when you speak of maintaining Poa annua, you may be maintaining any number of different grass species collectively called Poa annua, even though a percentage of the turf species are true perennials. Obviously, the more perennial types, the easier and more successful will be the USGA maintenance program. Since there are great differences in this plant we called Poa annua, these differences may be the reason why some golf courses can live with Poa annua and others may not be quite as successful.

Part of the USGA Green Section turf research effort is aimed at identifying perennial types and hopefully improving them to the extent that one day Poa annua may be a desirable species, not a noxious weed.

The following observations and management programs can be used to help Poa annua survive summer and winter stress periods.

A. Lightweight mowing and clipping removal

The same program that, in the long term, encourages bentgrass over Poa annua, will also help keep annual bluegrass alive in the short term. This is achieved by reducing physical mower stress with lighter equipment. The plant is less prone to wilt in the summer. Lightweight mowing makes a difference; it is one of the most important management programs the superintendent can follow for keeping the grass alive, healthy, good looking, and playable during the golf season.

B. Water control

By being able to apply the right amount of water at the right time, good water management will help keep Poa annua alive. An automatic irrigation system is an important tool if it is programmed properly. Generally, lighter and more frequent applications of water are preferred for Poa management rather than heavy soaking, infrequent waterings.

C. Drainage

Another form of water control. You cannot successfully grow any grass species under wet and soggy soil conditions. Good surface/sub-surface drainage must exist to eliminate summer berms, collapse, and disease pockets, as well as reduce winter ice damage.

D. Disease control

Poa annua is susceptible to a number of turfgrass pathogens. Although by no means an absolute necessity, a preventative approach rather than a curative program is best for controlling turfgrass disease. Diseases to be controlled include dollar spot, brown patch, Pythium, Anthracnose, and patch forming like the Phytophthora sp., Leptosphaeria sp., and snow mold organisms.

E. Disease control

Any time insects are feeding on the grass plant or its root system, control measures are essential. You simply cannot tolerate outside influence of insects destroying the grass. A good preventative control program needs to be exercised where a history of insect problems exist.

F. Management for roots

This encompasses all of the programs important in helping a grass plant with an inherently weak and shallow rooting system to have as deep a system as possible. Heavy accumulation of thatch and soil compaction must be overcome. A good aeration program and topdressing program allows annual bluegrass to develop as deep and as strong a rooting system as possible. Grow roots. This equates to healthier, stronger grass. It means grass better able to tolerate stress in summer or winter.

G. Fertility

One should not over-fertilize nor under-fertilize Poa annua. A good balanced fertility program should be followed with approximately a 3-1-2 if not a 4-1-4 ratio of N-P-K. Good grass growth means balanced fertility and enough fertility. Good grass growth requires a common sense approach to fertility, never applying too much overall, or at any one time. Whenever soil fertility is discussed, soil tests can be found extremely helpful in planning nutrient applications and pH adjustment. This holds true for both Poa annua maintenance or control.

There are also some new research data indicating higher levels of potassium (note the 4-1-4 ratio) contribute to a better rooting system in the grass plant, thicker cell walls for a tougher grass plant, and better summer heat and winter stress tolerance. Keep potassium levels up.

Finally, it may be a good idea to apply carefully light summer applications of fertilizer to the Poa annua. Heavy fertilizer applications hurt annual bluegrass during the summer stress period. However, light applications of nitrogen in the range of 1/4 to 1/3 pound actual nitrogen (depending upon the product, granular or sprayable) can contribute to better, stronger grass growth during the peak play of summer. Poa annua maintenance does require some summer fertility - fertility carefully applied. This includes application of iron and magnesium to help maintain a good level of chlorophyll and green color in the grass plant.

In Conclusion

Today we have the best tools ever to either maintain or control Poa annua. We have the best understanding ever of just what is the hodgepodge of grass varieties called Poa annua, as well as what is required to maintain or control it. Several common denominators exist: lightweight mowing and clipping removal, a good common sense management program, and a commitment to follow these programs. With this in mind, you can look forward to success in either controlling or maintaining Poa annua. Today there is a choice.