

INDEX

- annual bluegrass
 - breeding 108, 109
 - competition with creeping bentgrass 14-16
 - control 14, 15
 - diseases of 45-47, 49, 51-55, 66, 67, 70, 71
 - seedhead control 4, 13, 14
- ants 36
- Ataenius beetle 36, 40
- athletic fields
 - base paths 88, 89
 - construction 156-160
 - injuries on 161-163
 - irrigation 159-160
 - seeding 87
- bentgrass
 - competition with annual bluegrass 14-16
 - diseases of 45-47, 51, 56-60
 - establishment 110-112
 - fertilization 17, 22, 23
 - topdressing 23, 29-32
 - wetting agent use on 23, 26, 27
- billbugs 36, 43, 44
- biological control
 - of diseases 123-130
 - of insects 37, 38
- black layer 93-95
- broadleaf weeds 75, 120-122, 139
- brown patch 49, 50
- chinchbugs 36, 37, 41, 42, 115-118, 138, 139
- clippings, nutrient content 154
- compaction 82-86, 145-147
- costs, lawn care 148, 149
- crabgrass 5, 74-81, 139, 140
- cultivation
 - effect on black layer 94
 - effect on disease 71, 72
 - effect on sod rooting 145-147
 - equipment 35, 82-87
 - in renovation 139, 140
 - timing 83-86
- customer relations 2, 3, 79, 80, 137
- cutworm 36
- deficiencies 153, 155
- disease diagnosis 131-134
- dollarspot 51, 56-60
- drainage 82, 158-159
- drought 4, 5, 36, 37, 70, 74, 80, 138-140
- fairway renovation 111-112, 164

fertilizers

- effect on black layer 94
- effect on disease 70-73
- effect on weeds 79, 81, 120
- iron 4, 13, 14, 155
- leaching of 113, 114
- nitrogen 4, 13, 14, 17-25, 72, 73
- phosphorus 30, 33-35
- potassium 30, 33-35
- programs 139, 140, 153-155

fine fescues

- Chinchbug injury on 37, 115-118
 - cultivars 4-6
 - drought survival 4, 5, 138, 139
- fungicides 45-69, 70-73, 90-92

greens construction 110-112

ground covers 150-152

grubs 36-39

hardness of turf 30, 161-163

herbicide effects 14-16, 120-122

injuries on athletic fields 161-163

integrated pest management 135-137

insecticides 38-44

insects 36-44

iron fertilization 4, 13, 14, 155

irrigation 37, 38, 74, 80, 94, 123-130, 138, 159, 160

Kentucky bluegrass

- cultivars 4, 5, 11, 12
- diseases of 45, 48, 56, 61-65, 72, 73, 123-130
- drought survival 4, 5, 138, 139
- fertilization 7-19, 23-25
- insects in 115-118
- irrigation 123-130

lawn care 119, 135-137

leaching 153

marketing 2

melting out 45, 48, 49

necrotic ring spot 56, 61-65, 123-130

nematodes 37, 38, 70

nitrogen

- carriers 4, 13, 14, 17-25, 94
- effects on disease 123-127, 129, 130
- in clippings 153
- leaching 113, 114, 153
- programs 4, 13, 23, 29, 70-73, 153-155

overseeding 139, 140, 164

- patch disease 70-73
- perennial ryegrass
 - cultivars 4, 5, 7, 8
 - diseases of 49, 50
 - drought survival 4, 5
 - fertilization 17, 20, 21
- pesticide label and safety 104, 105, 135
- phosphorus 30, 33, 34, 35, 72, 154
- phytotoxicity
 - fungicide 45, 47-52, 53, 56-60
 - plant growth regulator 4, 13, 14, 16
 - wetting agent 23, 26
- plant growth regulators 4, 13, 14, 16, 164
- post-emergence herbicide 74-77, 80, 120-122, 140
- potassium 30, 33, 35, 72, 154
- preemergence herbicide 74-78, 80, 81, 121, 139, 140
- pythium 92

- renovation 110-112, 139, 140
- resistance to fungicides 90-92
- rooting 4, 23, 25, 70, 85, 86, 94, 145-147
- runoff 113-114

- safety 96-107
- sands
 - for athletic field construction 156, 157
 - for topdressing 23, 29, 30-32
- seeding 14, 16, 145-147, 160
- sod webworm 37, 138, 139
- soil testing 30, 33-35, 153, 154
- snow mold 45-47
- sulfur 93-95
- summer patch 49, 51-55, 66, 67

- tall fescue
 - cultivars 4, 5, 9, 10, 141-144
 - diseases of 143, 144
 - drought survival 4, 5, 141, 142
 - fertilization 143
 - seeding 87, 143
- thatch 23, 25, 30, 84, 115, 116, 123-125, 127, 128
- topdressing 23, 29, 30-32

- water quality 113, 114
- wetting agents 23, 26, 27, 28
- winterkill 4