

# Index

(Page references in italics indicate charts.)

- A**cidity of soil. See pH  
 Acid (sour) soil, 253  
 Aeration  
   aerators, viii, 5, 9, 15, 61, 114  
   disease control, 223, 227, 228, 234  
   droughts and, 143  
   earthworms for, 32, 43, 112, 115  
   fertilizing and, 114  
   golf shoes for, viii, 9, 15, 61, 112, 222, 228, 343  
   high-traffic areas, 115  
   rain damage, 146  
   soil test, 113  
   timing tips, 9, 113, 114, 122  
   warning signs, 113  
   weed control, 181, 182, 184, 192, 193  
 Aeration Tonic, 15, 115 (recipe), 122, 327 (recipe), 343  
 Alkaline (sweet) soil, 253  
 All-Purpose Pest Prevention Potion, 160, 161, 165 (recipe), 327 (recipe), 346, 351  
 All-Purpose Varmint Repellent, 166 (recipe), 327 (recipe), 351, 352  
 All-Season Clean-Up Tonic, 5, 172, 184, 201, 202 (recipe), 207, 213, 217, 218, 219, 221, 222, 232, 327 (recipe), 343  
 All-Season Green-Up Tonic, 5, 13, 38, 39 (recipe), 42, 44, 147, 172, 181, 184, 221, 222, 231, 262, 283, 286, 309, 320, 328 (recipe), 343, 345, 346, 348  
 Alum in tonic, 162, 331  
 Aluminum sulfate caution, 255  
 Ammonia  
   lemon-scented in tonics, 166, 214, 327, 329  
   secret behind, 6, 39, 324  
   in tonics, 37, 39, 75, 85, 86, 93, 119, 126, 128, 131, 134, 136, 145, 152, 153, 159, 165, 179, 216, 228, 231, 234, 327, 328, 330, 332, 333, 335, 337, 338, 339, 340  
 “And Don’t Forget to…” chores, 343  
 Animal control, 157–69  
 Annual bluegrass, 182  
 Antiseptic mouthwash  
   secret behind, 324  
   in tonics, 131, 152, 153, 181, 199, 202, 203, 211, 228, 231, 234, 327, 328, 330, 331, 333, 335, 336, 338  
 Anti-Summer-Patch Tonic, 227, 234 (recipe), 328 (recipe)  
 Anti-transpirants, 142, 151, 173  
 Ants and mowing, 70  
 Aphid Antidote, 207 (recipe), 328 (recipe)  
 Aphids, 207, 328  
 Apple juice in tonic, 152, 333  
 Areas of yard, needs of, 141  
 Armadillos, 165, 166  
 Armyworms, 203, 205, 207–8, 218  
 Artificial turf, 21  
 Auricles of grass, 11  
 Automatic sprinklers, 103

- B.** See Boron
- Baby shampoo  
secret behind, 326  
in tonics, 37, 75, 93, 128, 134, 145, 150, 152, 153, 175, 228, 230, 231, 328, 330, 331, 333, 334, 336, 337, 338, 339, 340
- Bacillus popilliae (milky spore disease), 165, 201, 212, 218
- Bacillus thuringiensis, 201, 211, 217
- Bahia grass  
drought tolerance, 144  
high-traffic areas, 131  
mowing height, 16, 81, 296  
seeding with, 268, 269, 271  
shady areas and, 148  
sod, 279  
warm-season grass, 14, 15, 154, 296  
watering, 98
- Baker's Dozen Rules for Spraying Success, 34–35
- Baker's yeast in tonic, 216, 336
- Baking soda in tonic, 226, 334
- Bamboos, 308
- Bare spot repair, 131–36
- BBC (Blade-Brake-Clutch), 52
- Beer  
secret behind, 6, 39, 324  
in tonics, 37, 39, 85, 93, 115, 126, 128, 131, 134, 145, 152, 159, 216, 327, 328, 330, 332, 333, 336, 337, 339
- Beneficial nematodes, 165, 201, 209, 211, 212, 214, 218
- Bent grass. See Colonial bent grass
- Bermuda grass  
drought tolerance, 144  
high-traffic areas, 131  
mowing height, 81, 296  
pH range, 253  
plugging with, 136, 286  
seeding with, 268, 269, 270, 271  
sod, 264, 279  
sprigging with, 135  
thatch vulnerability, 117  
warm-season grass, 10, 14, 40, 41, 149, 154, 296  
watering, 98  
weed control, 182–83
- Bible and lawns, 4
- Big bluestem, 310
- “Big Green Machine, The,” 7
- Billbugs, 203, 205, 209
- Biologicals for insect control, 201
- Birds  
insect control from, 209, 217, 219  
seeding and, 134, 264
- Bites and stings relief, 183
- Blade-Brake-Clutch (BBC), 52
- Blades of grass, 10, 11
- Blades of mowers  
cutting heights, 76, 81, 132, 139  
sharpening, 68, 77, 78, 343
- Blight Buster Tonic, 230, 231 (recipe), 328 (recipe)
- Blue gramma grass. See Gramma grass, blue
- Bluegrass. See also Kentucky bluegrass  
cool-season grass, 14, 154  
mowing height, 81  
pH range, 253  
seeding with, 269, 270  
sod, 279  
watering, 98
- Blue lyme grass, 310
- Bonemeal in tonic, 42, 332
- Boron (B), 23, 24–25
- Botanical insecticides, 202
- Brewer's yeast for dog urine, 158
- Broadcast spreaders, 33, 56, 60–61
- Broadleaf plantain, 183
- Broadleaf weeds, 172, 175, 176
- Brown patch, 225–26, 235
- Bt (*Bacillus thuringiensis*), 201, 211
- Bti (*Bacillus thuringiensis israelensis*), 215
- Btk (*Bacillus thuringiensis* var. *kurstaki*), 217

- Buffalo grass  
 drought tolerance, 144  
 mowing height, 81, 297  
 pH range, 253  
 plugging with, 136  
 seeding with, 268, 270, 271  
 slopes and, 137  
 sod, 279  
 warm-season grass, 14, 149, 154, 297  
 watering, 98
- Buffer gardens, 150
- Bugs. See Insect control
- Bulldozers, 240
- Bump repair, 129–31
- Burclover, 184
- Burning lawns, 303
- Burnt grass from fertilizing, 28, 29
- Butterfly larvae, 201
- Buzz Buster Tonic, 214 (recipe), 215, 329 (recipe), 347
- C**
- Calcium (Ca), 22, 24–25
- Calculating  
 composting needs, 257  
 seed for sowing, 271  
 sod, 30–31, 281  
 square footage of lawn, 30–31
- Calendar for lawn care, 341–52
- California Flex Rake, 110
- Carbaryl, 203
- Carpet grass  
 mowing height, 81, 297  
 pH range, 253  
 seeding with, 268, 269  
 warm-season grass, 154, 297  
 watering, 98
- Castor oil in tonics, 162, 165, 166, 327, 331
- Catch-can test, 94
- Cats, 160–61, 168, 334, 336
- Cayenne pepper in tonics, 159, 161, 329, 334, 336
- Centipede grass  
 mowing height, 81, 298  
 pH range, 253  
 plugging with, 136  
 seeding with, 268, 269, 271  
 shady areas and, 148  
 warm-season grass, 14, 149, 154, 298  
 watering, 98
- Chamomile tea in tonics, 152, 181, 203, 331, 335, 338
- Checkerboard sowing, 273
- Cheeseweed, 192
- Chemical control. See Fungicides; Herbicides; Insecticides
- Chickweed, 185
- Chili powder in tonics, 159, 161, 165, 329, 335, 336
- Chillin' Out Brew, 73 (recipe), 329 (recipe)
- Chinch bugs, 200, 201, 203, 205, 209–11, 329
- Chinch Bug Tonic, 211 (recipe), 329 (recipe)
- Chinese and lawns, 4, 90
- City water, 96
- Clay soil. See also Soil basics  
 composting, 41, 41, 257  
 defined, 248  
 improving, 262  
 pH adjustments, 255  
 testing, 249, 250  
 watering, 8, 90, 97
- Climate (weather), 140–56. See also Cool-season grasses; Drought defense; Warm-season grasses  
 areas of yard, needs of, 141  
 cold weather, 151–53, 154, 155  
 heat, 149–50, 154  
 map of lawn regions, 141  
 rain, 96, 100, 104–5, 106, 146–47  
 seeding and, 268–70, 273  
 shade, 148–49, 154, 247, 307, 320  
 watering and, 92, 98–100, 104

- Clippings
  - compost, 66–67, 86, 88, 110, 111, 222, 343
  - per growing season, ix, 51, 303
  - recycling, 85–87, 222
- Clothing for mowing, 71, 73, 83
- Clover, 43, 184, 253
- Clover mites, 203
- Coffee, dandelion, 188
- Cola (regular)
  - secret behind, 6, 324
  - in tonics, 37, 85, 86, 119, 145, 152, 159, 330, 332, 333, 339
- Cold weather, 151–53, 154, 155
- Colonial bent grass
  - cool-season grass, 14, 154, 292
  - mowing height, 81, 292
  - pH range, 253
  - seeding with, 268, 269, 270, 271
  - sod, 279
  - thatch vulnerability, 117
  - watering, 98
- Combination fertilizers, 26, 27
- Common chickweed, 185
- Composting. *See also* Fertilizing
  - calculating needs, 257
  - clippings for, 67, 86, 88, 110, 111, 222, 343
  - drought protection, 142, 155
  - fertilizing, 41, 41
  - mulching with, 275
  - mushroom, 43–44
- Cool-Climate Premium Mix, 272
- Cool-season grasses, 292–95. *See also* specific grasses
  - climate and, 14, 149, 154
  - cutting heights, 81
  - drought tolerance, 144
  - fertilizing, 41
  - high-traffic areas, 131
  - plugging with, 136
  - seeding with, 268, 269, 270, 271, 272, 273, 277
  - shady areas and, 148
  - slopes and, 137
  - sodding with, 279
- Copper (Cu), 23, 24–25
- Core aerifiers, 9
- Cornering, mowing, 74
- Corn gluten herbicide, 173, 195
- Corn syrup
  - secret behind, 325
  - in tonics, 39, 134, 216, 328, 336, 337
- Costs
  - of mowers, 49, 50, 52, 53
  - of plugging, 284
  - of seeding, 264
  - of sodding, 278
- Crabgrass, 185–86
- Creeping bent grass, 186–87
- Creeping Charlie, 190–91
- Crown of grass, 10
- Cu (copper), 23, 24–25
- Curb appeal, ix
- Curly dock, 187
- Cutting heights, 76, 81, 132, 139
- Cutworms, 201, 203, 211
- D**allis grass, 187–88
- Dandelions, 188–89, 195
- Debris removal from soil, 259
- Decks, 317–19, 320
- Deep watering, 93, 144
- Detergent versus soap, 42
- Dethatching, 116–20, 143
- Dicamba, 175, 185, 189, 192, 193
- Dip repair, 129–31
- Disease control, 220–36. *See also* Lawn care; Weed control
  - aeration for, 223, 227, 228, 234
  - brown patch, 225–26, 235
  - dollar spot, 226–27, 235
  - fairy ring, 227–28, 235, 330
  - fertilizing, 226, 228, 229, 232, 234

- fungicides for, 224, 233, 235
- fusarium blight (frog's eye), 230–31, 328
- heat and, 150
- leaf spot (melting out), 228, 235
- mowing for, 222, 223, 227, 229, 231, 232, 233, 234
- nitrogen (N) and, 228, 231, 232, 233, 234
- powdery mildew, 229–30, 235
- pythium blight, 230–31, 235
- raking for, 224, 226, 229, 233
- red thread, 231, 235
- rust, 232, 235
- shady areas and, 233
- snow mold, 232–33, 235, 236
- soil pH for, 230, 231
- summer patch, 234, 235
- watering for, 106, 222, 226, 227, 229, 231
- Dish soap. See Liquid dish soap
- Dog-B-Gone Tonic, 158, 159 (recipe), 329 (recipe)
- Doggie Damage Repair Tonic, 159 (recipe), 330 (recipe), 348
- Dogs, 158–60, 167–68, 223, 329–30
- Dollar spot, 226–27, 235
- Drainage
  - landscaping and, 242–46, 319
  - mosquitoes and, 215
- Drip lines, 247
- Drought Buster Tonic, 99, 145 (recipe), 155, 330 (recipe), 347, 348, 349
- Drought defense, 142–45
  - aeration for, 143
  - compost for, 142, 155
  - fertilizing for, 142, 155
  - grass types for, 143, 144, 154
  - ground covers for, 307
  - mowing for, 143
  - watering for, 16, 99, 104, 143, 144
- Drought Recovery Tonic, 104, 145 (recipe), 330 (recipe), 348
- Ducks, 167
- Dust damage, 15
- E**arthworms
  - animal control and, 165, 340
  - fertilizing with, 32, 43, 112, 115
- Edgers, 56, 57
- Edging, 87, 108–9, 121
- Electric mowers, 50, 52
- Electric trimmers, 58
- Endophytic grasses, 205, 205, 217
- English daisy, 190
- Environmental problems, 124–39
  - bare spot repair, 131–36
  - high-traffic areas, 115, 131, 276
  - hole repair, 129–31
  - ice treatments, 127
  - rut repair, 128, 339
  - salt damage, 126–27, 138–39
  - slope handling tips, 137, 307
  - spill solutions, 125–27, 138
  - tree roots, 130, 139, 247, 261
- Epsom salts
  - secret behind, 6, 325
  - in tonics, 34, 37, 127, 131, 134, 147, 287, 331, 333, 335, 336
- Expanding lawns, 304–5
- F**ainting and horseradish, 72
- Fairy ring, 227–28, 235, 330
- Fairy Ring Fighter Tonic, 228 (recipe), 330 (recipe)
- Fall
  - fertilizing, 38–40, 151
  - mowing, 82
  - schedule, 348, 349, 350–51
  - watering, 91
- Fall Clean-Up Tonic, 151, 152 (recipe), 331 (recipe), 349
- Fall Lawn Food Mix, 147 (recipe), 331 (recipe), 349
- False oat grass, 310
- Feeding lawns. See Fertilizing
- Fe (iron), 23, 24–25

- Ferrous sulfate caution, 255  
 Fertilizing, 18–43. See also Composting  
   burnt grass from, 28, 29  
   combination fertilizers, 26, 27  
   disease control, 226, 228, 229, 232, 234  
   droughts and, 142, 155  
   earthworms for, 32, 43, 112, 115  
   foliar feeding, 13  
   grades of fertilizers, 29, 32  
   guaranteed analysis of, 29  
   heat and, 150  
   nitrogen (N), 19, 20–21, 20–21, 29, 32, 40  
   nutrients, secondary, 22–23, 24–25  
   organic fertilizers, 6, 27, 41  
   phosphorus (P), 19, 20–21, 29, 31, 32  
   potassium (K), 19, 20–21, 29, 32  
   quick-release fertilizers, 26, 27  
   selecting fertilizers, 26–32, 43  
   slow-release fertilizers, 26, 27  
   spraying rules, 34–35, 40  
   spreaders for, 33, 56, 60–61  
   square footage determination, 30–31  
   starter fertilizer, 256, 259  
   synthetic fertilizers, 6, 27  
   timing tips, 37  
   year-round program, 36–42
- Fescues  
   cool-season grass, 14, 154, 293–94, 298  
   dog damage resistance, 159, 167  
   drought tolerance, 144  
   high-traffic areas, 131  
   hot regions and, 149  
   insect control, 205  
   mowing height, 16, 81, 293, 294  
   pH range, 253  
   salt tolerance, 127  
   seeding with, 268, 269, 270, 271  
   shady areas and, 148  
   slopes and, 137  
   sod, 279  
   thatch vulnerability, 117, 120  
   watering, 98
- Fire ants, 206  
 Fire hazard areas, 16, 288–89  
 Fish fertilizer in tonics, 134, 152, 333, 337  
 Flour in tonic, 161, 336  
 Flowers for rock gardens, 316  
 Flowers of grass, 11  
 Forks, 241  
 Fountain grass, 310  
 4 Ps of Lawn Care, 14, 169  
 Frick, Jay Edgar, 7  
 Frog's eye (fusarium blight), 230–31, 328  
 Fungicides, 224, 233, 235
- “Gardener's gold.” See Composting  
 Gardens for lawns, 305  
 Garden tractors, 53  
 Garlic in tonics, 159, 161, 180, 207, 328, 329, 332, 334  
 Gasoline adding caution, 125, 126, 138  
 Gas-powered mowers, 7, 50, 52, 65  
 Gas-powered trimmers, 58, 65  
 Gas spill cleanup, 126, 138  
 Gatorade in tonic, 152, 333  
 Germination percentage, 266  
 Get-Up-and-Grow Tonic, 36, 37 (recipe), 331 (recipe), 338, 344  
 Gill-over-the-ground, 190–91  
 Gin in tonic, 175, 340  
 Golf shoes for aeration, viii, 9, 15, 61, 112, 222, 228, 343  
 Goodbye Gophers and Move On Moles Tonic, 162 (recipe), 331 (recipe)  
 Gopher-Go Tonic, 162 (recipe), 169, 331 (recipe)  
 Gophers, 162–63, 168–69, 331  
 Grades of fertilizers, 29, 32  
 Grading lawns, 243–45, 246, 259, 260  
 Gramma grass, blue  
   drought tolerance, 144  
   mowing, 50, 81, 298  
   pH range, 253  
   seeding with, 268, 269, 270, 271

- slopes and, 137
- warm-season grass, 154, 298
- watering, 98
- Grandma Putt's
  - Homemade Organic Fertilizer, 42 (recipe), 300, 332 (recipe)
  - Terrific Sunburn Tonic, 180 (recipe), 332 (recipe)
- Granite dust in tonic, 42, 332
- Grass, 10–14. See also Cool-season grasses; Lawn care; specific grasses; Warm-season grasses
- Grass Clipping Compost Starter, 41, 67, 86 (recipe), 111, 332 (recipe), 343, 349
- Grass Clipping Dissolving Tonic, 67, 85 (recipe), 88, 111, 115, 121, 332 (recipe), 343
- Grass clippings. See Clippings
- Grass zone maps, 269–70
- Gravity drop spreaders, 33, 56, 61
- Ground covers, 130, 137, 149, 305–7, 320
- Ground ivy, 190–91
- Ground pearls, 203
- Grubs, 165, 201, 203, 210, 212, 218
- Guaranteed analysis of fertilizers, 29
- Gypsum
  - for rain damage, 146–47
  - in tonics, 37, 127, 335, 337
- H**and clippers, 56, 59
- Hand-pulling weeds, 174
- Hardiness zone map, 322
- Heat and grass, 149–50, 154
- Heat exhaustion/stroke, 71, 72, 73
- Henbit, 191
- Herbicides, 174–79, 303
- High-traffic areas, 115, 131, 276
- Hole repair, 129–31
- Horseradish for fainting, 72
- Hose-end sprayers, 34, 56, 60
- Hoses, 100, 101, 241, 282
- Hot sauce in tonics, 159, 165, 166, 199, 327, 329, 335, 336
- Household ingredients in tonics, 6, 39, 324–26
- Hydrogen peroxide in tonics, 150, 230, 334, 338
- I**ce treatments, 127
- Imidocloprid, 203
- Impulse sprinklers, 102
- In-Between Premium Mix, 272
- Indian grass, 311
- Inert matter in seed, 267
- Ingredients in tonics, 6, 39, 324–26
- In-ground sprinkler systems, 101, 103–4
- Insect control, 197–219
- Insecticides, 202, 203–4
- Iron (Fe), 23, 24–25
- J**alapeño peppers in tonic, 159, 329
- Japanese beetles, 201, 212
- Japanese silver grass, 311
- Job's tears, 311
- Juicy Fruit gum for moles, 164
- K**. See Potassium
- Kentucky bluegrass
  - cool-season grass, 41, 151, 154, 155, 293
  - disease control with, 228, 232
  - drought tolerance, 144
  - greening-up, 236
  - high-traffic areas, 131
  - hot regions and, 149
  - mowing height, 81, 293
  - origins of, 153, 265
  - pH range, 253
  - seeding with, 268, 271
  - thatch vulnerability, 117
  - watering, 98
- Kick-in-the-Grass Tonic, 68, 130, 131 (recipe), 333 (recipe), 346, 352
- Kitty litter uses, 127, 164

- Label on seed bags, 266–67
- Lacewings for insect control, 207
- Ladybugs for insect control, 207
- Landscaping, 301–20. See also Lawn care  
decks and patios, 317–19, 320  
drainage and, 242–46, 319  
expanding lawns, 304–5  
ground covers, 130, 137, 149, 305–7, 320  
meadow mixes, 312–14  
native grasses, 313, 314  
ornamental grasses, 308–11, 320  
rock gardens, 315–16  
shrinking lawns, 302–4  
wildflowers, 312, 313, 314
- Last Supper Tonic, 151, 152 (recipe), 333 (recipe), 350
- Laundry soap (dry) in tonic, 147, 331
- Lavender essential oil in tonic, 73, 329
- Lawn blowers, 62
- Lawn care, vii–16. See also specific grasses  
animal control, 157–69  
benefits of lawns, viii–x  
calendar, 341–52  
climate (weather), 140–56  
disease control, 220–36  
edging, 87, 108–9, 121  
environmental problems, 124–39  
fertilizing, 18–43  
4 Ps of Lawn Care, 14, 169  
grass overview, 10–14  
hardiness zone map, 322  
insect control, 197–219  
landscaping, 301–20  
money for, 3  
mowers, 47–55  
mowing, 69–88  
One-Third Rule, 7, 76, 80, 132, 139  
photosynthesis, 13, 15  
plugging lawns, 284–88  
property value and lawns, ix, viii  
raking, 56–57, 110–11, 121, 224, 226, 229  
seeding (sowing) lawns, 264–77  
sodding lawns, 278–84  
soil basics, 238–61  
spreading methods of grass, 12, 291  
terrain and, 4  
time for, 3  
tonics, 323–40  
tools, 45–68  
watering, 89–106  
weed control, 170–96
- Lawn food in tonics, 39, 86, 145, 147, 287, 328, 330, 331, 332, 335
- Lawn Freshener Tonic, 93 (recipe), 333 (recipe), 343, 348
- Lawn Fungus Fighter Tonic, 105, 226 (recipe), 236, 334 (recipe)
- Lawn mowers. See Mowers
- Lawn Pest Control Tonic, 213 (recipe), 334 (recipe)
- Lawn sweepers, 110
- Leafhoppers, 203, 213
- Leaf spot (melting out), 228, 235
- Legendary Blue-Ribbon Test, 249
- Ligules of grass, 11
- Lime  
for soil, 251, 254, 255, 260  
in tonics, 37, 127, 335, 337
- Liquid dish soap, 42  
lemon-scented in tonics, 166, 203, 214, 327, 329, 338  
secret behind, 6, 39, 325  
in tonics, 37, 39, 85, 86, 115, 119, 126, 131, 136, 159, 161, 162, 165, 179, 202, 207, 211, 234, 327, 328, 329, 331, 332, 333, 334, 335, 337, 339, 340
- Loamy soil. See also Soil basics  
composting, 41, 41, 257  
defined, 248  
pH adjustments, 255  
testing, 249, 250  
watering, 8, 97
- Loss prevention for tools, 63



- M**agnesium (Mg), 22, 24–25  
 Mallow, 192  
 Manganese (Mn), 23, 24–25  
 Manure (dehydrated) in tonic, 42, 332  
 Maps
  - grass zones, 269–70
  - lawn regions, 141
  - USDA hardiness zone, 322
 Mason Jar Soil-Texture Test, 250  
 MCPP (mecoprop), 175, 189, 192  
 Meadow mixes, 312–14  
 Mecoprop (MCPP), 175, 189, 192  
 Melting out (leaf spot), 228, 235  
 Meow-a-lous Tonic, 161 (recipe), 168, 334 (recipe)  
 Mg (magnesium), 22, 24–25  
 Mildew Relief Tonic, 229, 230 (recipe), 334 (recipe)  
 Milky spore disease (*Bacillus popilliae*), 165, 201, 212, 218  
 Mix-and-match seeds, 272  
 Mn (manganese), 23, 24–25  
 Molasses. See Corn syrup  
 Mole Chaser Tonic, 164, 165 (recipe), 169, 335 (recipe)  
 Mole crickets, 201, 203, 213–14  
 Moles, 163–65, 169, 212  
 Molybdenum (Mo), 23, 24–25  
 Money for lawn care, 3  
 Mosquitoes, 214–15  
 Moss, 180–81, 196, 229  
 Moss Buster Tonic, 181 (recipe), 196, 335 (recipe)  
 Mothballs as animal repellent, 166  
 Mouthwash. See Antiseptic mouthwash  
 Mowers, 47–55. See also Mowing
  - Blade-Brake-Clutch (BBC), 52
  - blades sharpening, 68, 77, 78, 343
  - care of, 54–55, 64, 65, 66, 343
  - costs of, 7, 49, 50, 52, 53
  - mulching mowers, 51, 53, 66–67
  - push-type mowers, 7, 49, 50
  - reel mowers, 7, 47, 49–50, 51, 67
  - riding mowers, 7, 53, 84
  - rotary mowers, 7, 47, 51–53
  - tuning-up, 65
 Mowing, 69–88. See also Mowers
  - clippings for compost, 67, 86, 110, 111, 222, 343
  - clothing for, 71, 73, 83
  - cornering, 74
  - cutting heights, 76, 81, 132, 139
  - disease control, 222, 223, 227, 229, 231, 232, 233, 234
  - edging and, 87, 108–9, 121
  - heat exhaustion/stroke, 71, 72, 73
  - mulching, 87
  - One-Third Rule, 7, 76, 80, 132, 139
  - pre-mowing ritual, 70–73
  - safety tips, 70–73, 77, 83
  - scalping, 82, 132
  - sharpening blades, 68, 77, 78, 343
  - slopes, 83, 137
  - speed adjustment, 76
  - techniques for, 74–75
  - throttle adjustment, 76
  - timing tips, 79–82
 Mulching
  - compost for, 275
  - mowers, 51, 53, 67
  - mowing and, 87
  - seeding and, 274, 275
 Murphy's Oil Soap in tonics, 166, 181, 199, 203, 211, 213, 216, 327, 334, 335, 336, 338  
 Mushroom compost, 43–44  
 Mustard in tonics, 161, 250, 336, 340  
**N**. See Nitrogen  
 Narrowleaf weeds, 171, 175  
 Native grasses, 313, 314  
 Neem, 202  
 Nematodes (beneficial), 165, 201, 209, 211, 212, 214, 218

- New lawns. See *Plugging lawns*; *Seeding (sowing) lawns*; *Sodding lawns*; *Soil basics*
- Newspaper for killing lawns, 304
- Nighttime watering, 92
- Nitrogen (N)
- disease control and, 228, 231, 232, 233, 234
  - fertilizing, 19, 20–21, 20–21, 29, 32, 40, 43
  - soil basic, 251, 252, 256
- Nodes of grass, 10, 11
- Nonselective herbicides, 177
- Noxious weeds in seed, 267
- Nurse grass, 90
- Oiling tools**, 64
- Oil in tonic, 226, 334
- 1-inch watering rule, 93, 95, 97
- One-Third Rule, 7, 76, 80, 132, 139
- Onions in tonics, 159, 207, 328, 329
- Oregon for grass seed, 267
- Organic
- disease control methods, 223
  - fertilizers, 6, 27, 41
  - insect control methods, 200–202
  - weed control methods, 173–74
- Ornamental grasses, 308–11, 320
- Oscillating sprinklers, 102
- Other crop seed, 266
- Oxalis, 192–93
- P.** See *Phosphorus*
- Patios, 317–19, 320
- Peppermint essential oil in tonic, 73, 329
- Pesticides. See *Insecticides*
- Pests. See *Animal control*; *Insect control*
- Phosphorus (P)
- fertilizing, 19, 20–21, 29, 31, 32
  - soil basic, 251, 252, 256
- Photosynthesis, 13, 15
- pH (potential of hydrogen)
- disease control by, 230, 231
  - soil acidity, 251, 252, 253, 253–55, 260–61
  - weed control by, 174, 180, 181, 196
- Plows, 240
- Plug Feeding Tonic, 287 (recipe), 335 (recipe)
- Plugging lawns, 284–88
- Plug Rejuvenating Tonic, 133, 135, 136 (recipe), 139, 335 (recipe)
- Pollution Solution Tonic, 127 (recipe), 138–39, 335 (recipe)
- Portable sprinklers, 101, 102
- Postemergent herbicides, 176, 177, 184, 185, 187, 190, 194
- Potassium (K)
- fertilizing, 19, 20–21, 29, 32
  - soil basic, 251, 252, 256
- Potential of hydrogen. See *pH*
- Powdery mildew, 229–30, 235
- Predatory nematodes, 165, 201, 209, 211, 212, 214, 218
- Preemergent herbicides, 173, 176–77, 184, 185, 193
- Property value of lawns, ix, viii
- Prostrate knotweed, 193
- Pure seed percentages, 266
- Purslane, 193–94
- Push-type mowers, 49, 50
- Pyrethroids, 203, 211, 212, 217
- Pythium blight, 230–31, 235
- Quaking grass**, 311
- Quick-release fertilizers, 26, 27
- Raccoons**, 165, 166
- Rain, 96, 100, 104–5, 106, 146–47
- Raking. See also *Composting*
- disease control, 224, 226, 229, 233
  - rakes, 56–57, 110, 240, 282
  - tips for, 110–11, 121
- Rear-bagging mowers, 55
- Red thread, 231, 235

- Reel mowers, 47, 49–50, 51, 67
- Replacing lawns, 304
- Reseeding, 132–34, 135, 147, 224
- Revolving sprinklers, 102
- Rhizomes of grass, 10, 11, 12, 291
- Riding mowers, 7, 53, 84
- Rise-’n’-Shine Clean-Up Tonic, 199
  - (recipe), 336 (recipe), 346
- Rock gardens, 315–16
- Roots of grass, 10
- Rose/vegetable dust in tonic, 231, 328
- Rotary mowers, 47, 51–53
- Rushes, 308
- Rust, 232, 235
- Rust protection for tools, 62
- Rut repair, 128, 339
- Ryegrass (annual), 90, 276, 295
- Ryegrass (perennial)
  - annual ryegrass versus, 276
  - cool-season grass, 14, 154, 155, 295
  - disease control with, 232, 276
  - dog damage resistance, 159, 168
  - high-traffic areas, 131, 276
  - hot regions and, 149
  - insect control with, 205
  - mowing height, 81, 295
  - reseeding with, 147
  - roots, xii
  - seeding with, 268, 269, 270, 271
  - thatch vulnerability, 120
  - watering, 98
  - winter and, 152
- S.** See Sulfur
- Salt damage prevention, 126–27, 138–39
- Saltpeter, 231, 234, 328
- Sandy soil. See also Soil basics
  - composting, 41, 41, 257
  - defined, 248
  - improving, 262
  - pH adjustments, 255
  - testing, 249, 250
  - watering, 8, 90, 97
- Sawdust for mulch, 275
- Scalping, 82, 132
- Scat Cat Solution, 161 (recipe), 336 (recipe)
- Scrapbook of landscaping, 239
- Screwdriver test for watering, 96
- Seaweed meal in tonic, 42, 332
- Sedges, 308
- Seed heads of grass, 11, 15
- Seeding (sowing) lawns, 264–77. See also
  - Soil basics; Weed control
  - advantages of, 264
  - amount calculation, 271
  - climate and, 268–70, 273
  - costs of, 264
  - fire hazard areas, 288–89
  - grass types for, 264, 265, 266, 268–72, 271, 277
  - label on seed bags, 266–67
  - mix-and-match seeds, 272
  - origins of seed, 266
  - reseeding, 132–34, 135, 147, 224
  - ryegrass (annual), 276
  - sod versus, 278
  - steps for, 274
  - timing tips, 272, 273
- Seeds of grass, 12, 291
- Seed spreaders, 241
- Seed Starter Tonic, 134 (recipe), 147, 224, 261, 273, 336 (recipe), 345, 347, 348
- Selective herbicides, 177
- Self-propelled rotary mowers, 52
- Shady areas
  - disease control, 233
  - fertilizing, 148
  - grass types for, 148, 154
  - ground covers for, 149, 307, 320
  - lawn health and, 17, 247
  - mowing, 148
  - watering, 148
  - weed control, 181
- Shampoo. See Baby shampoo

- Sharpening blades, 64, 68, 77, 78, 343
- Sheath of grass, 10, 11
- Shoots of grass, 10, 11, 12
- Shovels, 240
- Shrinking lawns, 302–4
- Shrubs for killing lawns, 304
- Siamese faucet head, 101
- Side-bagging mowers, 55
- Side oats gramma grass, 311
- Silt soil. *See also* Soil basics
  - defined, 248
  - testing, 249, 250
  - watering, 97
- Skunks, 165, 166, 212
- Slopes
  - determination, 244, 260
  - grass types for, 137
  - handling tips, 137, 307
  - mowing, 83, 137
- Slow-release fertilizers, 26, 27
- Slug It Out Tonic, 216 (recipe), 336 (recipe)
- Slugs, 215–16, 336, 338
- Snack Tonic, 37 (recipe), 39, 337 (recipe), 344, 349
- Snow mold, 232–33, 235, 236
- Soap. *See* Liquid dish soap
- Sod cutters, 240
- Sodding lawns, 278–84. *See also* Soil basics;
  - Weed control
  - advantages of, 278
  - amount calculation, 30–31, 281
  - costs of, 278
  - grass types for, 279
  - seeding versus, 278
  - steps for, 283
  - timing tips, 279, 281, 282
- Sod stripping, 303
- Sod webworms, 201, 203, 205, 216–17, 219
- Softener systems and watering, 105
- Soil basics, 238–61. *See also* Composting;
  - Disease control; Fertilizing; specific soil types; Watering; Weed control
  - acid (sour) soil, 253
  - alkaline (sweet) soil, 253
  - clay, 248–50, 262
  - drainage, 242–46, 319
  - earthworms and, 32, 43, 112, 115, 165, 340
  - grading lawns, 243–45, 246, 259, 260
  - Legendary Blue-Ribbon Test, 249
  - lime addition, 251, 254, 255, 260
  - Mason Jar Soil-Texture Test, 250
  - nitrogen (N), 251, 252, 256
  - phosphorus (P), 251, 252, 256
  - pH (potential of hydrogen), 251, 252, 253, 253–55, 261
  - potassium (K), 251, 252, 256
  - sandy, 248–50, 262
  - slope determination, 244, 260
  - steps for, 259
  - sulfur addition, 251, 254, 255
  - testing soil, 249–52
  - topsoil, 258
- Soil Prep Tonic, 134 (recipe), 256, 261, 286, 337 (recipe), 345, 347, 348
- Sour (acid) soil, 253
- Sowing. *See* Seeding
- Spades, 56, 57
- Speed adjustment for mowing, 76
- Spill solutions, 125–27, 138
- Spot repair, 131–36
- Spot Seed Tonic, 43, 133, 134 (recipe), 138, 274, 289, 337 (recipe)
- Spotted spurge, 194
- Spraying rules, 34–35, 40
- Spreading methods of grass, 12, 291
- Sprigging lawns, 135, 288
- Spring
  - fertilizing, 36–38, 344
  - mowing, 82
  - regional differences, 342
  - schedule, 344–45, 346, 347
  - watering, 90

- Spring Wake-Up Tonic, 16, 36, 37 (recipe), 38, 337 (recipe), 339, 344
- Sprinkler systems, 101, 102–4, 282
- Square footage determination, 30–31
- Squeaky Clean Tonic, 203 (recipe), 338 (recipe)
- St. Augustine grass  
 mowing, 50, 81, 299  
 pH range, 253  
 plugging with, 136, 286  
 salt tolerance, 127  
 seeding with, 268, 269  
 shady areas and, 148  
 sod, 264, 279  
 sprigging with, 135  
 thatch vulnerability, 117  
 warm-season grass, 14, 41, 149, 154, 299  
 watering, 98
- Starter fertilizer, 256, 259
- Starting lawns. See Plugging lawns;  
 Seeding (sowing) lawns; Sodding lawns;  
 Soil basics
- Stolons of grass, 10, 11, 12, 291
- Storage of tools, 62, 63, 64
- Stress Reliever Tonic, 153 (recipe), 338 (recipe), 351, 352
- String trimmers, 58
- Sugar. See Corn syrup
- Sulfur (S)  
 fertilizing, 22, 24–25  
 soil basic, 251, 254, 255
- Summer  
 fertilizing, 38  
 mowing, 82  
 schedule, 347, 348  
 watering, 91
- Summer patch, 150, 234, 235
- Summer Soother Tonic, 150 (recipe), 338 (recipe), 348
- Sunburn Tonic, 180 (recipe), 332 (recipe)
- Sun safety tips, 71
- Super Slug Spray recipe, 216 (recipe), 338 (recipe)
- Sweet (alkaline) soil, 253
- Switch grass, 311
- Synthetic fertilizers, 6, 27
- T**all fescue, 194–95
- Tea in tonics. See also Chamomile tea  
 instant, 37, 134, 179, 226, 230, 334, 337, 339, 340  
 secret behind, 326  
 water, 75, 93, 128, 134, 136, 150, 153, 333, 335, 336, 338, 339
- Terrain and lawn care, 4
- Terrific Turf Tonic, 15, 75 (recipe), 339 (recipe), 343
- Test date of seed, 267
- Testing soil, 249–52
- Thatch, 113, 116–20, 147
- Thatch Buster, 119, 120, 145, 147, 330
- Thatch Control Tonic, 116, 119, 119 (recipe), 120, 339 (recipe), 346
- Throttle adjustment for mowing, 76
- Thunderstorms and nitrogen, 20–21
- Tillers, 240
- Tillers of grass, 10, 11, 291
- Time for lawn care, 3
- Tire-Track Remover Tonic, 128 (recipe), 339 (recipe)
- Tonics, 323–40  
 Aeration Tonic, 15, 115 (recipe), 122, 327 (recipe), 343  
 All-Purpose Pest Prevention Potion, 160, 161, 165 (recipe), 327 (recipe), 346, 351  
 All-Purpose Varmint Repellent, 166 (recipe), 327 (recipe), 351, 352

- All-Season Clean-Up Tonic, 5, 172, 184, 201, 202 (recipe), 207, 213, 217, 218, 219, 221, 222, 232, 327 (recipe)
- All-Season Green-Up Tonic, 5, 13, 38, 39 (recipe), 42, 147, 172, 181, 184, 221, 222, 231, 262, 283, 286, 309, 320, 328 (recipe), 343, 345, 346, 348
- Anti-Summer-Patch Tonic, 227, 234 (recipe), 328 (recipe)
- Aphid Antidote, 207 (recipe), 328 (recipe)
- Blight Buster Tonic, 230, 231 (recipe), 328 (recipe)
- Buzz Buster Tonic, 214 (recipe), 215, 329 (recipe), 347
- Chillin' Out Brew, 73 (recipe), 329 (recipe)
- Chinch Bug Tonic, 211 (recipe), 329 (recipe)
- Dog-B-Gone Tonic, 158, 159 (recipe), 329 (recipe)
- Doggie Damage Repair Tonic, 159 (recipe), 330 (recipe), 348
- Drought Buster Tonic, 99, 145 (recipe), 155, 330 (recipe), 347, 348, 349
- Drought Recovery Tonic, 104, 145 (recipe), 330 (recipe), 348
- Fairy Ring Fighter Tonic, 228 (recipe), 330 (recipe)
- Fall Clean-Up Tonic, 151, 152 (recipe), 331 (recipe), 349
- Fall Lawn Food Mix, 147 (recipe), 331 (recipe), 349
- Get-Up-and-Grow Tonic, 36, 37 (recipe), 331 (recipe), 338, 344
- Goodbye Gophers and Move On Moles Tonic, 162 (recipe), 331 (recipe)
- Gopher-Go Tonic, 162 (recipe), 169, 331 (recipe)
- Grandma Putt's Homemade Organic Fertilizer, 42 (recipe), 300, 332 (recipe)
- Grandma Putt's Terrific Sunburn Tonic, 180 (recipe), 332 (recipe)
- Grass Clipping Compost Starter, 41, 67, 86 (recipe), 111, 332 (recipe), 343, 349
- Grass Clipping Dissolving Tonic, 67, 85 (recipe), 111, 115, 121, 332 (recipe), 343
- ingredients (household) in, 6, 39, 42, 324–26
- Kick-in-the-Grass Tonic, 68, 130, 131 (recipe), 333 (recipe), 346, 352
- Last Supper Tonic, 151, 152 (recipe), 333 (recipe), 350
- Lawn Freshener Tonic, 93 (recipe), 333 (recipe), 343, 348
- Lawn Fungus Fighter Tonic, 105, 226 (recipe), 236, 334 (recipe)
- Lawn Pest Control Tonic, 213 (recipe), 334 (recipe)
- Meow-a-lous Tonics, 161 (recipe), 168, 334 (recipe)
- Mildew Relief Tonic, 229, 230 (recipe), 334 (recipe)
- Mole Chaser Tonic, 164, 165 (recipe), 168, 335 (recipe)
- Moss Buster Tonic, 181 (recipe), 196, 335 (recipe)
- Plug Feeding Tonic, 287 (recipe), 335 (recipe)
- Plug Rejuvenating Tonic, 133, 135, 136 (recipe), 139, 335 (recipe)
- Pollution Solution Tonic, 127 (recipe), 138–39, 335 (recipe)
- Rise-'n'-Shine Clean-Up Tonic, 199 (recipe), 336 (recipe), 346
- safety, 325
- Scat Cat Solution, 161 (recipe), 336 (recipe)
- Seed Starter Tonic, 134 (recipe), 147, 224, 261, 273, 336 (recipe), 345, 347, 348
- Slug It Out Tonic, 216 (recipe), 336 (recipe)

- Snack Tonic, 37 (recipe), 39, 337 (recipe), 344, 349
- Soil Prep Tonic, 134 (recipe), 256, 261, 286, 337 (recipe), 345, 347, 348
- Spot Seed Tonic, 43, 133, 134 (recipe), 138, 274, 289, 337 (recipe)
- Spring Wake-Up Tonic, 16, 36, 37 (recipe), 38, 337 (recipe), 339, 344
- Squeaky Clean Tonic, 203 (recipe), 338 (recipe)
- Stress Reliever Tonic, 153 (recipe), 338 (recipe), 351, 352
- Summer Soother Tonic, 150 (recipe), 338 (recipe), 348
- Super Slug Spray recipe, 216 (recipe), 338 (recipe)
- Terrific Turf Tonic, 15, 75 (recipe), 339 (recipe), 343
- Thatch Control Tonic, 116, 119, 119 (recipe), 120, 339 (recipe), 346
- Tire-Track Remover Tonic, 128 (recipe), 339 (recipe)
- Weed Killer Prep Tonic, 179 (recipe), 222, 340 (recipe), 345
- Wild Weed Wipeout Tonic, 175 (recipe), 340 (recipe), 345
- Winterizing Tonic, 211 (recipe), 340 (recipe), 349
- Winter Walkway Protection Tonic, 126 (recipe), 127, 138, 340 (recipe), 351
- Worms-Away Tonic, 165, 250 (recipe)
- Tools, 45–68. See also Mowers
- Topsoil, 258
- Track repair, 128, 339
- Traveling sprinklers, 102
- Tree roots, 130, 139, 247, 261
- Trimmers, 56, 58, 59
- Trouble-free Lawn Care (TLC). See Aeration; Dethatching; Edging; Raking
- Tuning-up mowers, 65
- 2,4-D, 175, 189, 192, 193
- U**rine  
secret behind, 326  
in tonics, 152, 162, 165, 166, 203, 327, 331, 333, 338
- USDA hardiness zone map, 322
- V**arieties of seed, 266
- Vinegar in tonic, 175, 340
- W**alking on lawn after watering, 94
- Warm-Climate Premium Mix, 272
- Warm-season grasses, 296–99. See also specific grasses  
climate and, 14, 149, 154  
cutting heights, 81  
drought tolerance, 144  
fertilizing, 41  
high-traffic areas, 131  
plugging with, 136, 285, 286  
seeding with, 268, 269, 270, 271, 272, 277  
shady areas and, 148  
slopes and, 137  
sodding with, 279  
winter and, 152
- Water-filled rollers, 241, 282
- Watering, 89–106  
amount to water, 93–98  
catch-can test, 94  
city water for, 96  
climate and, 92, 98–100, 104  
commandments, 94–95  
deep watering, 93, 144  
disease control, 106, 222, 226, 227, 229, 231  
drought defense, 16, 99, 104, 143, 144  
grass types and, 98, 106  
infrequent watering, 93  
insufficient watering signs, 92  
1-inch watering rule, 93, 95, 97  
rain, 96, 100, 104–5, 106, 146–47  
screwdriver test, 96

- Watering (*continued*)  
Siamese faucet head, 101  
sod, 279, 283  
soil types and, 95, 97, 97  
sprinkler systems, 101, 102–4, 282  
timing tips, 92, 105, 222  
walking on lawn after, 94  
well water for, 96
- Weather. See Climate
- WeatherProof, 142, 151, 173, 233
- Weed-and-feed products, 177, 186, 191, 192, 193, 194
- Weed control, 170–96
- Weed Killer Prep Tonic, 179 (recipe), 222, 340 (recipe), 345
- Weed seed, 266–67
- Well water for watering, 96
- Wheelbarrows, 241, 282
- White clover, 43
- Wildflowers, 312, 313, 314
- Wild Weed Wipeout Tonic, 175 (recipe), 340 (recipe), 345
- Wind and fertilizing, 60
- Winter  
fertilizing, 153  
mowing, 82, 152  
schedule, 351, 352  
watering, 91
- Winterizing Tonic, 211 (recipe), 340 (recipe), 349
- Winter Walkway Protection Tonic, 126 (recipe), 127, 138, 340 (recipe), 351
- Wireworms, 203
- Witch hazel in tonic, 73, 329
- Workout using mowers, 49
- World War II and lawns, 115
- Worms-Away Tonic, 165, 250 (recipe)
- Y**ear-round fertilizing program, 36–42
- Yellow nutsedge, 195
- Yellow streaks, 42
- Z**inc (Zn), 23, 24–25
- Zoysia grass  
drought tolerance, 144  
high-traffic areas, 131  
mowing height, 81, 299  
pH range, 253  
plugging with, 136, 285, 286, 289  
seeding, 268, 269, 270, 289, 299  
sod, 264, 279  
sprigging with, 135  
thatch vulnerability, 117  
warm-season grass, 14, 149, 154, 299  
watering, 98