



A
Accuracy, 3
Active ingredient, 65–66
Analysis of fertilizer
 nutrients, 45
Area measurement, 7–28
Average radius method, 25–28

B
Boom sprayer, 96–103
Broadcast spreaders, 88–96

C
Circle
 area of, 11–12
Cone
 volume of, 32–33
Conversion factors, 32–33, 129–130
Costs
 of fertilizer, 59–61
 of pesticides, 70
 of irrigation, 110–111
 of seed, 119–120
Cube, 30–31
Cylinder
 volume of, 31–32

D
Drop spreaders, 79–87
Dry pesticides, 66–69

F
Fertigation, 58–59
Fertilizer
 calculations, 45–64
 cost, 59–61
 problems, 46–63

160 INDEX

G

Geometric Figures

area, 7–12

volume, 29–33

Greenhouse pots

application of materials, 123–128

I

Irregular shapes

volume of, 33

Irrigation

cost, 110–111

problems, 108–113

Irrigation calculations, 107–113

acre-foot, 107

acre-inch, 108

cost, 110

total water use, 108–112

L

Liquid fertilizers, 54–57

Liquid pesticides, 71–74

Liquids

volume of, 43–44

M

Materials

application of small amounts, 123–128

Metric calculations

area, 7–28

fertilizers, 61–64

pesticides, 74–77

volume, 29–44

irrigation, 113

Metric system, 4–5

O

Offset method, 15–19

modified, 19–24

Oval

area of, 12–13

P

Pesticide

- calculations, 66–78

- problems, 67–76

- cost, 70

Phosphate, 51–54

Potassium, 51–54

Precision, 2

Proportions, 2

Pure Live Seed (PLS), 116–117

R

Ratio of fertilizer nutrients, 45

Rectangle

- area of, 8–9

Rounding, 3

S

Sand

- volume of, 34–43

Seed counts, 116

Seed mixture analysis, 117–118

Seeding rate

- calculations, 115–122

- cost, 119–120

- problems, 118–122

- Pure Live Seed, 116–117

Significant digits, 3

Soil

- volume of, 34–43

Solids

- volume of, 34–43

Significant digits and rounding, 3–4

Sprayer calibrations, 96–106

Spreader calibrations, 79–96

T

Topdressing

- volume of, 34–43

Total water use, 108–112

Trapezoid

- area of, 9–10

162 INDEX

Triangle

 area of, 10–11

U

Units of measure, 4

V

Volume calculations, 29–44















