Ornamental & Turf Pest Control
Test Plan Development

I. Pest Identification
   a. Bi-annuals
   b. Annuals
   c. Perennials
   d. Desirable vs. Pest (selective control)
   e. Monocot
   f. Dicot
   g. Insect – growth stage, appropriate time for control (thresholds)
   h. Disease identification
   i. Rodent
   j. Scouting/Monitoring/Trapping for Pests
   k. Growth

Pests
m. Ants
   1. Southern fire ant
   2. Red Imported fire ant (Qualified Applicator)
   3. Harvester ant
   4. Tuskestan
n. Cockroaches
   1. Oriental
   2. Turkestan
o. Beetles
   1. Flat-head borer
   2. Palo Verde
   3. Bark Beetles
   4. White Grubs
   5. Bill Bugs
   6. Long-Horned Beetles
   7. Agave Weevils
   8. Yuccas
p. Pests of Public Health concern
   1. Mosquitoes
   2. Ticks
   3. Mites
   4. Chiggers
q. Scorpions
   1. Bark scorpion
   2. Paper wasps
r. Wasps
   1. Yellow-jacket-2 + 1 invasive
   2. Paper wasps
   3. False chinch bugs
   4. Ground Pearl
   5. Armyworm, Cutworm, Webworm
   6. Skeletonizers
s. Other invaders
   1. Aphids
   2. Whiteflies
   3. Psyllids
   4. Stink bugs
   5. Mealy bugs
   6. False chinch bugs
   7. Ground Pearl
   8. Armyworm, Cutworm, Webworm
   9. Skeletonizers
t. Vertebrates
   1. Gophers
   2. Ground Squirrels
   3. Field Cricket
u. Crickets
   1. Mole Crickets
   2. Camel Crickets
   3. Annual sweet clover

Weeds
a. Clovers
   1. Black medic
   2. Bur clover
   3. Annual sweet clover
b. Mustards
   1. London rocket
   2. Mustards (Sahara, Black, Wild Radish)
3. Shepherds purse 4. Swine cress
c. Composites 3. Prickly lettuce
1. Groundsel 2. Sow thistle
d. Other 4. Knotweed
e. Summer annual
f. Broadleaves 7. Toadflax
11. Camphorweed
g. Winter annual grass weeds
1. Hare Barley 2. Red brome
h. Summer annual grass weeds
4. Sandbur
i. Perennial weeds
10. Camelthorn 11. Hogpotato
II. Read and Comprehend Label and Labeling
a. Safety Issues
1. Spray Drift 4. Surface Waters (lakes, rivers, washes)
3. Wildlife
b. Worker Safety – PPE
3. Children
4. Pets
c. Public Safety
1. Re-entry 2. Workers

d. Calculate chemicals
1. Application Rates
   i. Site
   ii. Pests
   iii. Spot spray
   iv. Spray to run-off
2. Post-emergent
   i. Spray to Wet
   ii. Broadcast
3. Injection
   i. Stump treatment
4. Drench
5. Baits
6. Gases
f. Tank Mixes
g. Growth Regulators

III. Planning and Implementing a Vegetation /Pest Management Plan
   a. Appropriate Product formulations
   b. Secondary poisoning
   c. Application Timing
      1. Weather
      2. Life Stage
   d. Pesticide Resistance Issues
   e. Monitoring after Application

IV. Laws and Rules
   a. Ground water protection reporting
      1. A.A.C. R3-8-505
         i. Reporting Requirements
         ii. Where to find the list (QA)
      2. QA Responsibilities
      3. School
      4. Posting

V. Equipment Types, Uses, Maintenance and Calibration
   a. Nozzles
   b. Pumps
   c. Hoses
   d. Hand Sprayers
   e. Backpack Sprayers
   f. Broadcast Sprayers
   g. Granular Spreaders

Resources:

- Category 3b: Turf Management (Purdue Extension);
- Rights-of-Way Vegetation Management (Washington State University Extension);
- Weeds of California and other Western States Vol. 1 & 2 (University of California);
- Truman’s Scientific Guide to Pest Management Operations Seventh Edition;
- Handbook on Pests of Community Environments in the Desert Southwest United States;
- UC IPM (University of California – Statewide Integrated Pest Management);
- Arizona Revised Statute Title 3 Chapter 20 & Arizona Administrative Code Title 3 Chapter 8 – Pest Management Division; and
- National Pesticide Applicator Certification Core Manual