

Industrial, Institutional, & Structural Pest Control

Test Plan Development

I. Pest Identification, Biology and Ecology

a) Ants

- | | |
|------------------------|-------------------|
| i. Pharaoh ant | iv. Carpenter ant |
| ii. Odorous house ant | v. Rover ant |
| iii. Southern fire ant | vi. Harvester ant |

b) Cockroaches

- | | |
|-------------------|--------------|
| i. German | iv. Oriental |
| ii. American | v. Turkestan |
| iii. Brown-banded | |

c) Flies

- | | |
|-----------------------------------|---------------------------------|
| i. House fly | vii. Crane fly |
| ii. Flesh fly | viii. Black fly |
| iii. Blue-bottle/green bottle fly | ix. Phorid fly (humpbacked fly) |
| iv. Moth fly | x. Biting Midges |
| v. Fruit fly/vinegar fly | xi. Non-biting Midges |
| vi. Fungus gnat | |

d) Stored product pests/pantry pests/fabric pests

- | | |
|-------------------------------|------------------------|
| i. Bean weevil (Bruchids) | v. Carpet beetle |
| ii. Cigarette beetle | vi. Indian Meal Moths |
| iii. Saw-toothed grain beetle | vii. Drugstore Beetles |
| iv. Yellow meal worm | viii. Flour Beetles |

e) Pests of Public Health concern

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|-----------------|-----------------|
| i. Bed bugs | iv. Ticks |
| ii. Head lice | v. Kissing bugs |
| iii. Mosquitoes | vi. Fleas |

f) Spiders

- | | |
|--------------|-------------------|
| i. Dangerous | ii. Non-dangerous |
| 1) Widow | 1) Pygmy |
| 2) Recluse | 2) Cellar |
| | 3) Tarantula |
| | 4) Wolf Spider |
| | 5) Orb Spinners |

g) Scorpions & Scorpion Like

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|--------------------------|---------------------------------------|
| i. Bark scorpion | iv. Tailless whip scorpion (harmless) |
| ii. Giant hairy scorpion | v. Solpugid |
| iii. Stripetail scorpion | |

h) Wasps/Bees

- | | |
|----------------------------------|-----------------|
| i. Tarantula hawk | v. Velvet ant |
| ii. Yellow-jacket-2 + 1 invasive | vi. Leaf Cutter |
| iii. Paper wasps | vii. Carpenter |
| iv. Honey Bees | |

i) Occasional invaders

- | | |
|----------------|------------------------|
| i. Stink bugs | iii. False chinch bugs |
| ii. Mealy bugs | iv. Noctuids |

- v. Box elder
- vi. Centipedes
- vii. Millipedes
- viii. Milkweed
- ix. Sphinx Moths
- x. Pill Bugs
- xi. Crickets – field, camel,
Indian house, etc

- xii. Springtails
- xiii. Earwigs
- xiv. Firebrats/Silverfish
- xv. Darkling beetles
- xvi. Other outdoor beetles –
paloverde beetle, ironclad

j) Vertebrates

- i. Mice
- ii. Pack rat/Woodrat
- iii. Gophers

- iv. Squirrels
- v. Birds – pigeons
- vi. Roof Rat

II. Comprehend and Apply Label & Labeling Directions

a) Drift and Run Off

b) Rodenticides

c) Sensitive Environments (i.e. Schools, Health Care and Child Care Facilities, & Food Handling Establishments)

III. Planning & Implementing a Management Strategy

a) Awareness of Target Species

b) Secondary Poisoning

c) Endangered Species

d) Non-Target Species

e) Selection of the Appropriate Pesticide

f) Selection of Appropriate Device/Equipment

g) Record making

IV. Strategies and Application Techniques

a) IPM Strategies

b) Equipment

- i. Types
- ii. Uses

- iii. Calibration
- iv. Maintenance

c) Calculations

- i. Area
- ii. Volume

- iii. Dosage

Resources

- [Arizona Revised Statute Title 3 Chapter 20 & Arizona Administrative Code Title 3 Chapter 8 – Pest Management Division](#)
- [National Pesticide Applicator Certification Core Manual;](#)
- **Truman's Scientific Guide to Pest Management Operations – 7th Edition; and**
- [Handbook on Pests of Community Environments in the Desert Southwest United States](#)