

Confused Flour Beetle, *Tribolium confusum* J. du Val, Coleoptera: Tenebrionidae
Red Flour Beetle, *Tribolium castaneum* (Herbst), Coleoptera: Tenebrionidae

Origin: Confused and Red flour beetles: Unknown; circa 1967

Diet/Culture: Oats Diet in Quart Jars (See Appendix)

Tasks Performed: Weekly

<u>Day</u>	<u>Procedure(s)</u>
Monday	Set up New Cultures with Egg Layers
Tuesday	
Wednesday	
Thursday	Remove Egg Layers from New Cultures
Friday	

Set up Egg Layers/New Cultures:

Materials:

- Fumehood
- CFB or RFB cultures with adults
- Aspirator (# 20 sieve setup, optional)
- 10 ml graduated cylinder, Nalgene®
- Small funnel, Nalgene®

Procedure (performed under fumehood):

1. Aspirate adults from older cultures
2. Using graduated cylinder and funnel:
 - a. For CFB: Transfer 4 ml adults into each new culture jar
 - b. For RFB: Transfer 6 ml adults into each new culture jar
3. Close jar with wire mesh and filter paper lids
4. Place new jars on shelf in HR #1
5. Allow three (3) days oviposition period
6. Discard old colony jars by removing labels and placing in freezer

Remove Egg Layers (E/L):

Materials:

- New cultures with E/L
- Sieve setup (#20)
- SS lab spoon or small spatula
- Pour pan
- Empty quart jar
- Aspirator (optional; used for capturing escapees)

Procedure (performed under fumehood):

1. Empty entire culture into sieve
2. Shake back and forth until diet falls through sieve
3. Break up large clumps with lab spoon or spatula; repeat step 2
4. Transfer diet with eggs (bottom pan) back to culture jar, using pour pan
5. Transfer beetles from sieve (#20) to empty quart jar, using pour pan; discard by freezing
6. Replace lid and return cultures to holding room for development

Clean up:

Wipe down and disinfect surfaces of fumehood and cart before handling another species
Place all materials used in handling insect in freezer before proceeding