|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week** | **xx** | **xx** | **xx** | **xx** | **Time** |
| **#** | **Day** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **min** |
| **Nursery tasks** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | **Remove (5d) old nursery box (3 boxes/day)** ***(M1)**** Take out 3 boxes of 5-DOL
* Weigh the total mass (g)
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 2 | **Connect new love cage to dark cages*** Weigh empty & clean cage and bamboo frame
* Connect love cage to first dark cage
* Disconnect love cage after 30mins
* Weigh cage (filled with flies) again
* Connect to next dark cage and repeat process
 | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | W | 30 |
| 3 | **Prepare (16) new pupation boxes*** ¾ compost, ¼ H2O
* 3 kg of mixture per box
* Place boxes in pupation frame
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| 4 | **Remove (7 - 10 d) old nursery Larvero*** Remove material
* Use material for fly attractant
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 5 | **Harvest and process prepupae (PP) *(M2)**** Sieve PP from outer box
* Add coco peat to outer box and place back
* Weigh PP from each Larvero
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 60 |
| 6 | **Add food in nursery Larveros** (see **Appendix B** for the feeding schedule) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 7 | **Hatchling shower maintenance*** Remove and clean (5d) old tea strainers
* Add water (0.5L) to oldest nursery boxes
* Add coco peat (1-2 d before counting)
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 8 | **Prepare nursery box (3 boxes/day)*** Add 3kg of feed/crate and cover with coco peat
* Place under tea strainers
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 9 | **Prepare new nursery Larvero (2 boxes/day)*** Add 2 kg of feed to the box
* Cover with coco peat
* Add 10,000 5-DOL/box
* Place the box on outer box
* Add coco peat to outer box
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 10 | **Remove (4 d) old love cage (2 cages/day)** ***(M3)**** Remove eggies from cage
* Collect dead flies for new attractant
* Clean containers removed from LC
* Wash cage on Cotton quick programme
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 60 |
| 11 | **Set-up new love cage (2 cages/day) *(M4)**** Weigh full cage with flies
* Move cage to love cage table
* Add attractant, eggies, cover & water container
* Take sample of 20 flies (1x)
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| 12 | **Remove (3 wk) old dark cages*** Take (16) boxes out
* Empty boxes
* Wash cage on Cotton quick programme
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 13 | **Set-up new dark cages*** Add 16 pupation boxes/cage
* Add label on it and tie the cage tunnel
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| **Upkeep tasks** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U1 | **Fill water of ant traps** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 |
| U2 | **Clean nursery room** * Sweep floor and clean frames
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 240 |
| U3 | **Clean work tables** * 1st with detergent, 2nd with alcohol
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 |
| U4 | **Clean Lab** * Sweep floor and store all stuff on shelf
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| U5 | **Clean lab table** * 1st with detergent, 2nd with alcohol
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 |
| U6 | **Wash towels and lab coats (at 60-90 degrees)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5 |
| U7 | **Data collection nursery activities on log sheet** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| U8 | **Input nursery and waste treatment collected data** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| **Measuring/Monitoring tasks** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M1 | **Enumerate 5-DOL*** Weigh the total mass (residue & 5-DOL) in g
* Mix the material and sample 3 scoops randomly
* Separate residue & 5-DOL by sieving
* Weigh mass of 5-DOL & residue (g) separately
* Count # of 5-DOL in 1g (3x)
* Extrapolate and count total # of 5-DOL
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 60 |
| M2 | **Enumerate prepupae*** Weigh PP from each Larvero separate
* Mix PP and weight 2 samples of 200
* Enumerate 625 PP/pupation box, for 8 days
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| M3 | **Harvesting eggs*** Scrape off the eggs from wooden eggies
* Weigh (g) the mass of eggs
* Put the eggs into tea strainers
* Hang tea strainers full of eggs on hatchling shower frame
* Clean wooden eggies by air compressor machine
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 120 |
| M4 | **Count flies*** Collect 20 flies from new cage
* Add ethyl acetate to cork jar and add flies
* Take flies out and weigh
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15 |