|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Week** | | **xx** | | | **xx** | | | **xx** | | | **xx** | | | **xx** | | | **xx** | | | **xx** | | | **xx** | | | **xx** | | | **Time** |
| **#** | **Day** | **1** | **3** | **5** | **1** | **3** | **5** | **1** | **3** | **5** | **1** | **3** | **5** | **1** | **3** | **5** | **1** | **3** | **5** | **1** | **3** | **5** | **1** | **3** | **5** | **1** | **3** | **5** | **min** |
| **Nursery tasks** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | **Remove (7d) old nursery box (1 boxes/day)** ***(M1)***   * Take out box with 7-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 | 30 |
| 3 | **Prepare (8) new pupation boxes**   * ¾ compost, ¼ H2O * 3 kg of mixture per box * Place boxes in pupation frame |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| 4 | **Remove 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 * Count, dose and add **1,250 PP** per pupation crate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 60 |
| 6 | **Add food in nursery Larveros**  (see **Annex B2** for the feeding schedule) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 7 | **Love cage and hatchling shower maintenance (M3)**   * Prepare new egg media for selected love cage * See **Annex C2** for the media switching schedule * Replace tea strainers full of eggs on hatchling shower frame with old tea strainers * Clean wooden eggies and tea strainers with the air compressor machine |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 60 |
| 8 | **Prepare nursery box (1 box/day)**   * Add 4kg of feed/crate and cover with coco peat * Place under tea strainers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 9 | **Prepare new nursery Larvero (1 box/day)**   * Add 2 kg of feed to the box * Cover with coco peat * Add 10,000 7-DOL/box * Place the box on outer box * Add coco peat to outer box |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 10 | **Remove (7 d) old love cage (1 cage/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 (1 cage/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 (8) boxes out * Empty boxes * Wash cage on Cotton quick programme |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 13 | **Set-up new dark cages**   * Add 8 pupation (2 wk old) 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 7-DOL**   * Weigh the total mass (residue & 7-DOL) in g * Mix the material and sample 2 scoops randomly * Count # of 7-DOL in 5g (2x) * Extrapolate and count total # of 7-DOL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 60 |
| M2 | **Enumerate prepupae**   * Weigh PP from each Larvero separate * Mix PP and weight 2 samples of 200 * Enumerate 1,250 PP/pupation box |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30 |
| M3 | **Harvesting eggs**   * Scrape off the eggs from wooden eggies * Weigh (g) the mass of eggs * Put the eggs into tea strainers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
| M4 | **Count flies**   * Collect 20 flies from new cage * Add ethyl acetate to cork jar and add flies * Take flies out and weigh |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15 |