|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **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 |