Table 1. Experimental treatment arrangement of tree logs inoculated with one of two shiitake mushroom strains for production of edible mushrooms and placed at two farms in northern Florida.

|  |  |  |  |
| --- | --- | --- | --- |
| Treatment Number | Tree Species | Number of Logs | Shiitake Strain |
| 1 | Oak | 10 | WR46 |
| 2 | Oak | 10 | Snow Cap |
| 3 | Chinese Tallow | 10 | WR46 |
| 4 | Chinese Tallow | 10 | Snow Cap |
| 5 | Chinaberry | 10 | WR46 |
| 6 | Chinaberry | 10 | Snow Cap |
| 7 | Mimosa | 10 | WR46 |
| 8 | Mimosa | 10 | Snow Cap |

Table 2. Target number of mycelium inoculation holes in tree logs for production of edible shiitake mushrooms, relative to a “standard” log 3 feet long and 6 inch diameter.

|  |  |
| --- | --- |
| Measurement | Log Diameter (inch) |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| relative proportion of log diameter to standard log (6 in) | 0.33 | 0.50 | 0.67 | 0.83 | 1.00 | 1.17 | 1.33 |
| number of holes/log | 17 | 25 | 33 | 42 | 50 | 58 | 67 |

Table 3. Preliminary shiitake mushroom production at Full Earth Farm (Quincy, FL) from October 2015 through February 2016 on logs of oak and Chinese tallow inoculated with either the shiitake strain Wide Range (WR) 46TM or Snow CapTM .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tree | Mushroom Inoculant (no. logs with mushrooms) | Mushroom Weight (g) per logMean (SEM) | Number of Mushrooms per logMean (SEM) | Weight per MushroomMean (SEM) |
| Oak | Snow Cap (n=10) | 105 (65.3) | 7 (4.1) | 14 (4.3) |
| Oak | WR-46 (n=4) | 260 (253.8) | 8 (6.1) | 25 (16.1) |
| Tallow | Snow Cap (n=2) |  87 (6.8) | 2 (0.7) | 36 (7.8) |
| Tallow | WR-46 (n=4) | 255 (181.1) | 14 (8.1) | 18 (4.4) |

Table 4. Preliminary shiitake mushroom production at Little Eden Farm (Crawfordsville, FL) from October 2015 through February 2016 on logs of oak and Chinese tallow inoculated with either the shiitake strain Wide Range (WR) 46TM or Snow CapTM .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tree | Mushroom Inoculant (no. logs with mushrooms) | Mushroom Weight (g) per logMean (SEM) | Number of Mushrooms per logMean (SEM) | Weight per MushroomMean (SEM) |
| Oak | Snow Cap (n=9) |  290 (133.3) | 7 (4.1) | 39 (17.1) |
| Oak | WR-46 (n=10) | 1365 (422.3) | 85 (30.7) | 38 (34.5 ) |
| Tallow | Snow Cap (n=6) | 222 (88.5) | 4 (1.9) | 38 (23.9) |
| Tallow | WR-46 (n=9) |  511 (396.8) | 15 (14.2) | 41 (36.5) |