**Table 2: Invasive alien weed species frequency and average percent cover in western Amhara Region**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S/N** | **Scientific name** | **Infested habitat** |  **Family** | **Freq** | **Av% cov** | **Life cycle** |
| 1 | *Cirsium vulgare* | RS,RL,CL | Asteraceae | 22 | 14 | Biennial |
| 2 | *Xanthium spinosum* | RS,RL | Asteraceae | 18 | 5 | Annual |
| 3 | *Xanthium strumarium* | RS,RI,CL,AF | Asteraceae | 19 | 7 | Annual |
| 4 | *Senna didymobotrya* | RS,RL | Fabaceae | 66 | 30 | Perennial |
| 5 | *Opuntia stricta* | RS,RL | Cactaceae | 16 | 4 | Perennial |
| 6 | *Argemone mexicana* | RS,RL | Papaveraceae | 84 | 52 | Annual |
| 7 | *Datura stramonium* | RS,RL,CL,AF | Solanaceae | 73 | 38 | Annual |
| 8 | *Tagetes minuta* | RS,RL,AF | Asteraceae | 51 | 12 | Annual |
| 9 | *Ageratum conyzoides* | RS,RL | Asteraceae | 7 | 5 | Annual |
| 10 | *Agave americana* | RS,RL | Asparagaceae | 11 | 2 | Perennial |
| 11 | *Phalaris paradoxa* | CL | Poaceae | 6 | 4 | Annual |
| 12 | *Cenchrus polystachios* | RL | Poaceae | 30 | 8 | Perennial |
| 13 | *Imperata cylindrica* | CL | Poaceae | 8 | 3 | Annual |
| 14 | *Echium plantagineum* | RS,RL | Boraginaceae | 16 | 5 | Annual |

Infested Habitat: (RS= Roadside; RL= rangeland; CL= cropland; and AF; around forest); Freq=frequency; Av% cov= average percent cover

**Table 1: Relevant soil physicochemical properties of the experimental rice field before planting in Fogera Plain of Ethiopia.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Soil properties** | **Units** | **Min. Value** | **Max. value** |
| Textural class |  | Heavy clay | Heavy clay |
| Chemical properties |  |  |  |
| pH (H2O) 1:2.5 g soil | - | 5.87 | 6.63 |
| Total nitrogen (TN) | % | 0.09 | 0.16 |
| Organic carbon (OC) | % | 1.24 | 1.93 |
| Organic matter (OM) | % | 2.13 | 3.09 |
| Available Phosphorus | Ppm | 11.4 | 25.13 |

**Table 4: Response of informants on human wildlife conflicts with reference to livestock predation.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attribute** | **Response** | **Villages**  | **Overall (n=250)** |
| **Ambolamba (n = 30)** | **Embiswuha (n = 29)** | **Gemshat (n = 32)** | **Gatira (n= 33)** | **Molalie (n = 32)** | **Sindeamdir (n = 33)** | **Werekyo (n = 31)** | **Zoble (n= 30)** |
| Name of the predator | Common fox | Yes | 10 (33.3) | 24 (82.8) | 20 (62.5) | 32 (96.9) | 09 (28.1) | 08 (24.2) | 28 (90.3) | 09 (30.0) | 140 |
| No | 20 (66.7) | 05 (17.2) | 12 (37.5) | 01 (3.1) | 23 (71.9) | 25 (75.8) | 03 (09.7) | 21 (70.0) | 110 |
| Hyaena | Yes | 10 (33.3) | 16 (55.1) | 01 (03.1) | 33 (100) | 10 (31.2) | 19 (57.6) | 28 (90.3) | 13 (43.3) | 130 |
| No | 20 (66.7) | 13 (44.8) | 31 (96.9) | 00 (00.0) | 22 (68.8) | 14 (42.4) | 3 (09.7) | 17 (56.7) | 120 |
| Leopard | Yes | 06 (20.0) | 17 (58.6) | 21 (65.6) | 00 (00.0) | 17 (53.1) | 17 (51.5) | 2 (06.5) | 16 (53.3) | 96 |
| No | 24 (80.0) | 12 (41.4) | 11 (34.4) | 33 (100) | 15 (46.9) | 16 (48.5) | 29 (93.5) | 14 (46.7) | 154 |
| Number of Livestock loss per year | Cattle | 00 | 00 | 00 | 00 | 01 | 00 | 00 | 00 | 01 |
| Sheep/Goat | 43 | 94 | 67 | 104 | 48 | 68 | 81 | 69 | 574 |
| Pack animal | 00 | 06 | 00 | 00 | 02 | 03 | 01 | 03 | 15 |
| Cost of livestock loss per year (USD)  | Cattle | 00 | 00 | 00 | 00 | 285 | 00 | 00 | 00 | 285 |
| Sheep/Goat | 3010 | 6580 | 4690 | 7280 | 3360 | 4760 | 5670 | 4830 | 40180 |
| Pack animal | 0 | 510 | 0 | 0 | 170 | 255 | 85 | 255 | 1275 |
| Techniques used for livestock protection | No response | 01 (03.3) | 23 (79.3) | 10 (31.2) | 02 (06.1) | 01 (03.1) | 00 (00.0) | 02 (06.5) | 00 (00.0) | 39 |
| Active guarding | 20 (66.7) | 05 (17.2) | 22 (68.8) | 18 (54.5) | 27 (84.4) | 22 (66.7) | 13 (42.0) | 28 (93.3) | 155 |
| Keeping dogs | 03 (10.0) | 01 (03.5) | 00 (00.0) | 05 (15.1) | 01 (03.1) | 00 (00.0) | 05 (16.1) | 01 (03.3) | 16 |
| Limiting domestic animals near house | 06 (20.0) | 00 (00.0) | 00 (00.0) | 08 (24.2) | 03 (09.4) | 11 (33.3) | 11 (35.5) | 01 (03.3) | 40 |
| Trend of livestock predation | Increased | 21 (70.0) | 25 (86.2) | 31 (96.9) | 33 (100) | 26 (81.2) | 27 (81.8) | 27 (87.1) | 26 (86.7) | 216 |
| Decreased | 01 (03.3) | 03 (10.3) | 00 (00.0) | 00 (00.0) | 00 (00.0) | 00 (00.0) | 01 (03.2) | 00 (00.0) | 05 |
| Unknown | 08 (26.7) | 01 (03.4) | 01 (03.1) | 00 (00.0) | 06 (18.8) | 06 (18.2) | 03 (09.7) | 04 (13.3) | 29 |

n = Number of informants; Percentage values are presented in parentheses; 1USD = 20.00 ETB (Price of February, 2015)