Table 3. Percentage distribution of households’ willingness to accept and adopt a solar water disinfection system by predictor values (n=1155)

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable** | **Households willingness to accept and adopt a solar water disinfection system** | | |
| **No (%)** | **Yes (%)** | **Inferential Statistics** |
| ***Treatment of water from main source*** |  | | |
| No | 4 | 96 | Pearson chi2 = 8.8863 (Pr=0.003; Cramér's V =0.0877) |
| Yes | 1 | 99 |
| ***Household income*** |  | | |
| Low | 4 | 96 | Pearson chi2 = 3.8081 (Pr=0.051; Cramér's V =0.0574) |
| High | 2 | 98 |
| ***Sex*** |  | | |
| Male | 2 | 98 | Pearson chi2 = 3.5575 (Pr = 0.059; Cramér's V =-0.0555) |
| Female | 4 | 96 |
| ***Age group (years)*** |  | | |
| 24 and below | 1 | 99 | Pearson chi2 = 19.6873 (Pr = 0.001; Cramér's V =0.1306) |
| 25-30 | 1 | 99 |
| 31-37 | 2 | 98 |
| 38-44 | 5 | 95 |
| 45-54 | 3 | 97 |
| 55 and above | 10 | 90 |
| ***Highest educational attainment*** |  | | |
| No education | 4 | 96 | Pearson chi2 = 97.4883 (Pr = 0.000; Cramér's V = 0.0785) |
| Primary | 4 | 96 |
| Secondary | 0 | 100 |
| Higher | 1 | 99 |
| ***Marital status*** |  | | |
| Single | 1 | 99 | Pearson chi2 = 6.0191 (Pr = 0.049; Cramér's V =0.0722) |
| Maried | 3 | 97 |
| Divorced/Widow/Widower | 8 | 92 |
| ***Household size*** | | | |
| Small (0-5) | 2 | 98 | Pearson chi2 = 1.9855 (Pr = 0.371; Cramér's V =0.0417) |
| Medium (6-10) | 4 | 96 |
| Large (>11) | 4 | 96 |
| ***Religion*** |  |  |  |
| Christian | 2 | 98 | Pearson chi2 = 12.9472 (Pr = 0.002; Cramér's V =0.1059) |
| Muslim | 5 | 95 |
| Traditional | 12 | 88 |
| ***Community zones*** |  | | |
| Sawla | 3 | 97 | Pearson chi2 = 3.5461 (Pr=0.315; Cramér's V =0.0554) |
| Gindabuo | 3 | 97 |
| Kalba | 1 | 99 |
| Tuna/Sanyeri | 4 | 96 |
| **n** | **1155** | | |