|  |  |  |  |
| --- | --- | --- | --- |
| **Variable Name** | **Variable label/Description** | **Description** | **Source** |
| qre\_uniqueid | Unique ID of each interviewed households | Five-digit string number. | Primary survey |
| time\_start | Date and Time when interview was started. It has recorded date/time (YYYY-M-D and H:M:S) format when interview started. | - |
| interview\_date | Date of interview |  |
| consent | Are you willing to participate? | 1=Yes  0=No |
| district | District Name (It is text field where we pulled the district from a sample list of district/block/village) | Sehore, Shajapur, Jabalpur, Hoshangabad, Harda |
| block | Block Name (It is text field where we pulled the district from a sample list of district/block/village) | Text |
| village | Village (It is text field where we pulled the district from a sample list of district/block/village) | Text |
| hh\_num | Household Number (It is numeric value from 1 to 15 which has selected for 15 sampled household in each village) | Numeric value (0-15) |
| hh\_treespecies\_screan | Which of the following tree species do you have in your land : (Multiple Choice) | 1=Mango  2=Lemon  3=Guava  4=Amla  5=Mahua  6=Orange  7=Teak  8=Eucalyptus  9=Seesham  10=Sal  11=Bamboo  97=None of the above |
| mango | Tree specie = Mango created variable by replacing binomial variable  hh\_treespecies\_screan\_1 | 1=Yes  0=No |
| lemon | Tree specie = Lemon created variable by replacing binomial variable  hh\_treespecies\_screan\_2 | 1=Yes  0=No |
| guava | Tree specie = Guava created variable by replacing binomial variable  hh\_treespecies\_screan\_3 | 1=Yes  0=No |
| aawla | Tree specie = Amla created variable by replacing binomial variable  hh\_treespecies\_screan\_4 | 1=Yes  0=No |
| mahua | Tree specie = Mahua created variable by replacing binomial variable  hh\_treespecies\_screan\_5 | 1=Yes  0=No |
| orange | Tree specie = Orange created variable by replacing binomial variable  hh\_treespecies\_screan\_6 | 1=Yes  0=No |
| teak\_sagon | Tree specie = Teak created variable by replacing binomial variable  hh\_treespecies\_screan\_7 | 1=Yes  0=No |
| eucalyptus | Tree specie = Eucalyptus created variable by replacing binomial variable  hh\_treespecies\_screan\_8 | 1=Yes  0=No |
| sheesham | Tree specie = Sheesham created variable by replacing binomial variable  hh\_treespecies\_screan\_9 | 1=Yes  0=No |
| saal | Tree specie = Saal created variable by replacing binomial variable  hh\_treespecies\_screan\_10 | 1=Yes  0=No |
| bamboo | Tree specie = Bamboo created variable by replacing binomial variable  hh\_treespecies\_screan\_11 | 1=Yes  0=No |
| maintree\_num\_count | It is system generated variable which count the total tree species selected by the farmer in the repeat group of “maintree\_num” | Integer |
| treenum\_id\_1 | It is serial number 1 for first tree selected at “hh\_treespecies\_screan” | Calculate (selected-at(${hh\_treespecies\_screan}, index()-1)) |
| treenum\_name\_1 | This variable just storing the name of tree specie 1 which was selected at “hh\_treespecies\_screan” | Calculate (jr:choice-name(${treenum\_id}, '${hh\_treespecies\_screan}')) |
| maxtree\_oneplot\_1 | How many trees of the (treenum\_name\_1) species do you have in only ONE plot (highest no. of tree specie 1 selected at “hh\_treespecies\_screan” in any one plot) | Integer |
| treenum\_id\_2 | It is serial number 2 for second tree selected at “hh\_treespecies\_screan” | Calculate (selected-at(${hh\_treespecies\_screan}, index()-1)) |
| treenum\_name\_2 | This variable just storing the name of tree specie 2 which was selected at “hh\_treespecies\_screan” | Calculate (jr:choice-name(${treenum\_id}, '${hh\_treespecies\_screan}')) |
| maxtree\_oneplot\_2 | How many trees of the (treenum\_name\_2) species do you have in only ONE plot (highest no. of tree specie 2 selected at “hh\_treespecies\_screan” in any one plot) | Integer |
| treenum\_id\_3 | It is serial number 3 for third tree selected at “hh\_treespecies\_screan” | Calculate (selected-at(${hh\_treespecies\_screan}, index()-1)) |
| treenum\_name\_3 | This variable just storing the name of tree specie 3 which was selected at “hh\_treespecies\_screan” | Calculate (jr:choice-name(${treenum\_id}, '${hh\_treespecies\_screan}')) |
| maxtree\_oneplot\_3 | How many trees of the (treenum\_name\_3) species do you have in only ONE plot (highest no. of tree specie 3 selected at “hh\_treespecies\_screan” in any one plot) | Integer |
| treenum\_id\_4 | It is serial number 4 for fourth tree selected at “hh\_treespecies\_screan” | Calculate (selected-at(${hh\_treespecies\_screan}, index()-1)) |
| treenum\_name\_4 | This variable just storing the name of tree specie 4 which was selected at “hh\_treespecies\_screan” | Calculate (jr:choice-name(${treenum\_id}, '${hh\_treespecies\_screan}')) |
| maxtree\_oneplot\_4 | How many trees of the (treenum\_name\_4) species do you have in only ONE plot (highest no. of tree specie 4 selected at “hh\_treespecies\_screan” in any one plot) | Integer |
| treenum\_id\_5 | It is serial number 5 for fifth tree selected at “hh\_treespecies\_screan” | Calculate (selected-at(${hh\_treespecies\_screan}, index()-1)) |
| treenum\_name\_5 | This variable just storing the name of tree specie 5 which was selected at “hh\_treespecies\_screan” | Calculate (jr:choice-name(${treenum\_id}, '${hh\_treespecies\_screan}')) |
| maxtree\_oneplot\_5 | How many trees of the (treenum\_name\_5) species do you have in only ONE plot (highest no. of tree specie 5 selected at “hh\_treespecies\_screan” in any one plot) | Integer |
| treenum\_id\_6 | It is serial number 6 for sixth tree selected at “hh\_treespecies\_screan” | Calculate (selected-at(${hh\_treespecies\_screan}, index()-1)) |
| treenum\_name\_6 | This variable just storing the name of tree specie 6 which was selected at “hh\_treespecies\_screan” | Calculate (jr:choice-name(${treenum\_id}, '${hh\_treespecies\_screan}')) |
| maxtree\_oneplot\_6 | How many trees of the (treenum\_name\_6) species do you have in only ONE plot (highest no. of tree specie 6 selected at “hh\_treespecies\_screan” in any one plot) | Integer |
| treenum\_id\_7 | It is serial number 7 for seventh tree selected at “hh\_treespecies\_screan” | Calculate (selected-at(${hh\_treespecies\_screan}, index()-1)) |
| treenum\_name\_7 | This variable just storing the name of tree specie 7 which was selected at “hh\_treespecies\_screan” | Calculate (jr:choice-name(${treenum\_id}, '${hh\_treespecies\_screan}')) |
| maxtree\_oneplot\_7 | How many trees of the (treenum\_name\_7) species do you have in only ONE plot (highest no. of tree specie 7 selected at “hh\_treespecies\_screan” in any one plot) | Integer |
| resp\_age | Age of the respondent | Numeric value (18-100) |
| resp\_schoolyr | Years of schooling of the respondent | Integer |
| hh\_caste | Caste category | 1=General (Gen)  2=Other Backward Classes (OBC)  3=Scheduled Caste (SC)  4=Scheduled Tribe (ST) |
| hh\_mem\_total | Total number of family members | Integer |
| own\_land\_acre | Owned land in acres | Integer |
| coowned\_land\_acre | Co-owned land in acres | Integer |
| rentshere\_out\_land\_acre | New variable for rentshere\_out\_land in acres | Integer |
| tot\_land\_operate\_acre | tot\_land\_operate in acres | Integer |
| tree1 | Name of tree specie 1 | Text |
| tree\_plant\_monthyr\_1 | What was the last month and year when you last planted in (tree)?  (Last month when the first/primary tree planted in the referred plot) | Date (month-year) |
| lplot\_irrigation\_source | What is the most important source of irrigation water? | 1=River, Stream  2=Lake, Pond  3=Well  4=Boreholes/Tubewells  5=Canal  99=Other |
| heard\_govtsup\_agroforest | Have you heard about any government support program for Agroforestry? | 1=Yes  0=No |
| agroforest\_parti\_prog | Have you participated in that program? | 1=Yes  0=No |
| loan\_able\_flender | Would you or anyone else in your household be able to take a loan in cash or kind from Formal Lender (Bank/Financial Institution) if you wanted to? | 1=Yes  0=No  2=Maybe |
| loan\_able\_shg | Would you or anyone else in your household be able to take a loan in cash or kind from SHG/Credit if you wanted to? | 1=Yes  0=No  2=Maybe |
| loan\_able\_mfi | Would you or anyone else in your household be able to take a loan in cash or kind from Microfinance Group if you wanted to? | 1=Yes  0=No  2=Maybe |
| loan\_able\_cooperative | Would you or anyone else in your household be able to take a loan in cash or kind from Cooperative Society if you wanted to? | 1=Yes  0=No  2=Maybe |
| tmin\_rabi\_1995\_2014 | Average minimum temperature, winter cropping season (1995-2014) | Continuous | GIS data |
| tmax\_rabi\_1995\_2014 | Average maximum temperature, winter cropping (1995-2014) | Continuous |
| prec\_rabi\_1995\_2014 | Average precipitation, winter cropping season (1995-2014) | Continuous |
| tmin\_kharif\_1995\_2014 | Average minimum temperature, monsoon cropping season (1995-2014) | Continuous |
| tmax\_kharif\_1995\_2014 | Average maximum temperature, monsoon cropping (1995-2014) | Continuous |
| prec\_ kharif\_1995\_2014 | Average precipitation, monsoon cropping season, (1995-2014) | Continuous |
| gps\_resp\_housealtitude | Altitude of the household | Continuous |
| puccaroad\_invillage | All weather road leading to village | 1=Yes  0=No | Primary survey |
| puccaroad\_distance | Distance from village to all weather road in Km. | Integer |
| kvk\_distance | Distance to nearest agriculture science centre from the village in km. | Integer |
| Distancetotheclosestforestry | Distance to nearest forest depot from the village in km. | Integer |
| Distancetotheclosestgovernme | Distance to nearest government nursery from the village in km. | Integer |
| Distancetotheclosestprivate | Distance to nearest private nursery from the village in km. | Integer |
| dist\_rangeoffice | Distance to nearest forest range office from the village in km. | Continuous | GIS data |
| ECO\_NAME | Name of the ecoregion  1=East Deccan moist deciduous forests  2=Khathiar-Gir dry deciduous forests  3=Narmada Valley dry deciduous forests | Text |
| cermarket\_invillage | Cereals market for farm produce in the cillage | 1=Yes  0=No | Primary survey |
| cermarket\_distance | Distance to cereal market from the village in km. | Integer |
| pulsmarket\_invillage | Pulses market for the farm produce in the village | 1=Yes  0=No |
| pulsmarket\_distance | Distance to pulse market from the village in km. | Integer |
| fruitmarket\_invillage | Fruits market for the farm produce in the village | 1=Yes  0=No |
| fruitmarket\_distance | Distance to fruit market from the village in km. | Integer |
| vegmarket\_invillage | Vegetables market for the farm produce in the village | 1=Yes  0=No |
| vegmarket\_distance | Distance to vegetable market from the village in km. | Integer |
| inputmarket\_invillage | Agriculture input market (seed, fertilizer, pesticide) in the village | 1=Yes  0=No |
| inputmarket\_distance | Distance of agriculture input market from the village in Km. | Integer |

***Source:*** *i) Primary data from the household survey in Madhya Pradesh during June-August 2023; ii) Climate data from ref 1; iii) Eco-region data from ref2.*

.1. Fick, S. E. & Hijmans, R. J. WorldClim 2: new 1‐km spatial resolution climate surfaces for global land areas. Int. J. Climatol. 37, 4302–4315 (2017).

2. Dinerstein, E. et al. An Ecoregion-Based Approach to Protecting Half the Terrestrial Realm. BioScience 67, 534–545 (2017).