

Description of variables in dataset “Data_Commercial tree growing_HH_Vill_GIS.dta”

Data sources. Primary data from the household survey conducted by the authors in Madhya Pradesh during June-August 2023, with the following exceptions:

- *Climate variables (tmin_*, tmax_*, prec_*)*: GIS analysis of spatial data from 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).
- *Ecoregion (ECO_NAME)*: GIS analysis of spatial data from Dinerstein, E. et al. An Ecoregion-Based Approach to Protecting Half the Terrestrial Realm. *BioScience* 67, 534–545 (2017).
- *Distance from village to nearest forest range office (dist_rangeoffice)*: GIS analysis.

Variable name	Variable definition	Variable description/codes
qre_uniqueid	Unique ID of each interviewed household	Five-character strings
time_start	Date and time when interview started, in YYYY-M-D and H:M:S format	
interview_date	Date of interview	YYYY-M-D
consent	Are you willing to participate in the interview?	1=Yes 0=No
district	District name	Sehore, Shajapur, Jabalpur, Hoshangabad, Harda
block	Block name	Text
village	Village name	Text
hh_num	Household number that distinguishes the 15 households sampled in each village	Numeric value (1-15), restarts for each village
hh_treespecies_screen	Which of the following tree species do you have in your land?	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	Do the tree species on your land include Mango?	1=Yes 0=No
lemon	Do the tree species on your land include Lemon?	1=Yes 0=No
guava	Do the tree species on your land include Guava?	1=Yes 0=No
aawla	Do the tree species on your land include Amla?	1=Yes 0=No

mahua	Do the tree species on your land include Mahua?	1=Yes 0=No
orange	Do the tree species on your land include Orange?	1=Yes 0=No
teak_sagon	Do the tree species on your land include Teak?	1=Yes 0=No
eucalyptus	Do the tree species on your land include Eucalyptus?	1=Yes 0=No
sheesham	Do the tree species on your land include Sheesham?	1=Yes 0=No
saal	Do the tree species on your land include Sal?	1=Yes 0=No
bamboo	Do the tree species on your land include Bamboo?	1=Yes 0=No
maintree_num_count	Total number of tree species farmer has on their land	Integer
treenum_id_1	It is serial number 1 for first tree selected at “hh_treespecies_screen”	Integer
treenum_name_1	This variable just storing the name of tree species 1 which was selected at “hh_treespecies_screen”	Text
maxtree_oneplot_1	How many trees of the (treenum_name_1) species do you have on the plot where you grow the largest number of commercial trees?	Integer
treenum_id_2	It is serial number 2 for second tree selected at “hh_treespecies_screen”	Integer
treenum_name_2	This variable just storing the name of tree species 2 which was selected at “hh_treespecies_screen”	Text
maxtree_oneplot_2	How many trees of the (treenum_name_2) species do you have on the plot where you grow the largest number of commercial trees?	Integer
treenum_id_3	It is serial number 3 for third tree selected at “hh_treespecies_screen”	Integer
treenum_name_3	This variable just storing the name of tree species 3 which was selected at “hh_treespecies_screen”	Text
maxtree_oneplot_3	How many trees of the (treenum_name_3) species do you have on the plot where you grow the largest number of commercial trees?	Integer
treenum_id_4	It is serial number 4 for fourth tree selected at “hh_treespecies_screen”	Integer
treenum_name_4	This variable just storing the name of tree species 4 which was selected at “hh_treespecies_screen”	Text
maxtree_oneplot_4	How many trees of the (treenum_name_4) species do you have on the plot where you grow the largest number of commercial trees?	Integer
treenum_id_5	It is serial number 5 for fifth tree selected at “hh_treespecies_screen”	Integer

treenum_name_5	This variable just storing the name of tree species 5 which was selected at “hh_treespecies_screen”	Text
maxtree_oneplot_5	How many trees of the (treenum_name_5) species do you have in only ONE plot (highest no. of tree species 5 selected at “hh_treespecies_screen” in any one plot)	Integer
treenum_id_6	It is serial number 6 for sixth tree selected at “hh_treespecies_screen”	Integer
treenum_name_6	This variable just storing the name of tree species 6 which was selected at “hh_treespecies_screen”	Text
maxtree_oneplot_6	How many trees of the (treenum_name_6) species do you have on the plot where you grow the largest number of commercial trees?	Integer
treenum_id_7	It is serial number 7 for seventh tree selected at “hh_treespecies_screen”	Integer
treenum_name_7	This variable just storing the name of tree species 7 which was selected at “hh_treespecies_screen”	Text
maxtree_oneplot_7	How many trees of the (treenum_name_7) species do you have on the plot where you grow the largest number of commercial trees?	Integer
resp_age	Age of the household head (Years)	Integer
resp_schoolyr	Years of schooling of household head (Years)	Integer
hh_caste	Caste of the household	1=General 2=Other disadvantaged caste 3=Scheduled caste 4=Scheduled tribe
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	Owned land that is rented out, in acres	Integer
tot_land_operate_acre	Total land operated, in acres	Integer
tree1	Primary tree species planted in the plot where the farmer grew the largest number of commercial trees	Text
tree_plant_monthyr_1	Most recent month and year when the farmer planted the primary tree species in the plot where they grew the largest number of commercial trees	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 a 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 a SHG/credit union 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 a 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 a 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
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
puccaroad_distance	Distance to nearest all weather road (km)	Integer
kvk_distance	Distance to nearest agriculture science centre (km)	Integer
Distancetotheclosestforestry	Distance to nearest forest depot (km)	Integer
Distancetotheclosestgovernme	Distance to nearest government nursery (km)	Integer
Distancetotheclosestprivate	Distance to nearest private nursery (km)	Integer
dist_rangeoffice	Distance to nearest forest range office (km)	Continuous
ECO_NAME	Name of the ecoregion where the village is located	1=East Deccan moist deciduous forests ecoregion

		2=Khathiar-Gir dry deciduous forests ecoregion 3=Narmada Valley dry deciduous forests ecoregion
cermarket_invillage	Cereal market in the village?	1=Yes 0=No
cermarket_distance	Distance to nearest cereal market (km)	Integer
pulsmarket_invillage	Pulse market in the village?	1=Yes 0=No
pulsmarket_distance	Distance to nearest pulse market (km)	Integer
fruitmarket_invillage	Fruit market in the village?	1=Yes 0=No
fruitmarket_distance	Distance to nearest fruit market (km)	Integer
vegmarket_invillage	Vegetable market in the village?	1=Yes 0=No
vegmarket_distance	Distance to nearest vegetable market (km)	Integer
inputmarket_invillage	Agricultural input market (seed, fertilizer, pesticide) in the village?	1=Yes 0=No
inputmarket_distance	Distance to nearest agriculture input market (km)	Integer