

ES/P002501/1 Improving Organic Resource use in rural Ethiopia (IPORE)

Variable Descriptions – Baseline Round 1

File hhdata-round1.dta

N	variable name	Type 1=numeric, 0=String	Value labels used	Description
1	chhid	1		cross survey household id - where HH not matched missing
2	hhid	1		numeric household identifier
3	totalland_holding_timad	1		total land holding measured in timad
4	own_cultivatedland_timad	1		own cultivated land in timad
5	land_rentedin	1		rented in land in timad
6	land_rentedout	1		rented out land in timad
7	land_sharedin	1		shared in land in timad
8	land_sharedout	1		shared out land in timad
9	land_irrigatedland	1		total irrigatable land in timad
10	land_private_grazingland	1		private grazing land in timad
11	land_settlement_backyardland	1		settlement and backyard land in timad
12	numberof_plots0	1		number of plots operated on
13	croptgrown_teff	1	yesno	Teff grown
14	croptgrown_maize	1	yesno	Maize grown
15	croptgrown_wheat	1	yesno	Wheat grown
16	croptgrown_haricot	1	yesno	Haricot Bean grown
17	croptgrown_fmll	1	yesno	Finger Millet grown
18	croptgrown_sorg	1	yesno	Sorghum grown
19	croptgrown_pep	1	yesno	Pepper grown
20	croptgrown_pot	1	yesno	Potato grown
21	croptgrown_khat	1	yesno	Khat grown
22	croptgrown_coff	1	yesno	Coffee grown
23	croptgrown_oth	1	yesno	Other grown
24	Teff_area_Timad	1		Teff Area in Timad
25	Teff_Prod_Qt	1		Teff Amount of production in Quintal

26	Teff_Sold_Qt	1		Teff Amount sold in Quintal
27	Teff_Consumed_Qt	1		Teff Amount used for own household consumption in Quintal
28	Maize_area_Timad	1		Maize Area in Timad
29	Maize_Prod_Qt	1		Maize Amount of production in Quintal
30	Maize_Sold_Qt	1		Maize Amount sold in Quintal
31	Maize_Consumed_Qt	1		Maize Amount used for own household consumption in Quintal
32	Wheat_area_Timad	1		Wheat Area in Timad
33	Wheat_Prod_Qt	1		Wheat Amount of production in Quintal
34	Wheat_Sold_Qt	1		Wheat Amount sold in Quintal
35	Wheat_Consumed_Qt	1		Wheat Amount used for own household consumption in Quintal
36	Haricotbean_area_Timad	1		Haricotbean Area in Timad
37	Haricotbean_Prod_Qt	1		Haricotbean Amount of production in Quintal
38	Haricotbean_Sold_Qt	1		Haricotbean Amount sold in Quintal
39	Haricotbean_Consumed_Qt	1		Haricotbean Amount used for own household consumption in Quintal
40	Fingermillet_area_Timad	1		Fingermillet Area in Timad
41	Fingermillet_Prod_Qt	1		Fingermillet Amount of production in Quintal
42	Fingermillet_Sold_Qt	1		Fingermillet Amount sold in Quintal
43	Fingermillet_Consumed_Qt	1		Fingermillet Amount used for own household consumption in Quintal
44	Sorghum_area_Timad	1		Sorghum Area in Timad
45	Sorghum_Prod_Qt	1		Sorghum Amount of production in Quintal
46	Sorghum_Sold_Qt	1		Sorghum Amount sold in Quintal
47	Sorghum_Consumed_Qt	1		Sorghum Amount used for own household consumption in Quintal

48	Pepper_area_Timad	1		Pepper Area in Timad
49	Pepper_Prod_Qt	1		Pepper Amount of production in Quintal
50	Pepper_Sold_Qt	1		Pepper Amount sold in Quintal
51	Pepper_Consumed_Qt	1		Pepper Amount used for own household consumption in Quintal
52	Potato_area_Timad	1		Potato Area in Timad
53	Potato_Prod_Qt	1		Potato Amount of production in Quintal
54	Potato_Sold_Qt	1		Potato Amount sold in Quintal
55	Potato_Consumed_Qt	1		Potato Amount used for own household consumption in Quintal
56	Khat_area_Timad	1		Khat Area in Timad
57	Khat_Prod_Qt	1		Khat Amount of production in Quintal
58	Khat_Sold_Qt	1		Khat Amount sold in Quintal
59	Khat_Consumed_Qt	1		Khat Amount used for own household consumption in Quintal
60	Coffee_area_Timad	1		Coffee Area in Timad
61	Coffee_Prod_Qt	1		Coffee Amount of production in Quintal
62	Coffee_Sold_Qt	1		Coffee Amount sold in Quintal
63	Coffee_Consumed_Qt	1		Coffee Amount used for own household consumption in Quintal
64	Other_desc	1		Other What is the main other crop grown?
65	Other_area_Timad	1		Other Area in Timad
66	Other_Prod_Qt	1		Other Amount of production in Quintal
67	Other_Sold_Qt	1		Other Amount sold in Quintal
68	Other_Consumed_Qt	1		Other Amount used for own household consumption in Quintal
69	croppresidue2feed_animals	1	yesno	Have you used crop residue for animal feed over the last 12 months?
70	major_crop_feedanimals1	1	major_crop_resid	first major crop used for animal feed
71	percent_feed_animals1	1		percentage of this crop residue used for animals feed over last 12 months

72	major_crop_feedanimals2	1	major_crop_resid	second major crop used for animal feed
73	percent_feed_animals2	1		percentage of this crop residue used for animals feed over last 12 months
74	major_crop_feedanimals3	1	major_crop_resid	third major crop used for animal feed
75	percent_feed_animals3	1		percentage of this crop residue used for animals feed over last 12 months
76	dys_crpres_food	1		Over the last 3 months, on average how many days have you used crop residue for animal feed?
77	croppresidue4_firewood	1	yesno	Have you used crop residue for firewood over the last 12 months?
78	major_crop_firewood1	1	major_crop_resid	first major crop used for fuel
79	percent_firewood1	1		percentage of this crop residue used for fuel over the last 12 months
80	major_crop_firewood2	1	major_crop_resid	second major crop used for fuel
81	percent_firewood2	1		percentage of this crop residue used for fuel over the last 12 months
82	major_crop_firewood3	1	major_crop_resid	third major crop used for fuel
83	percent_firewood3	1		percentage of this crop residue used for fuel over the last 12 months
84	dys_crpres_fuel	1		Over the last 3 months, on average how many days have you used crop residue as t
85	croppresidue4_soilfertility	1	yesno	Have you used crop residue for soil fertility over the last 12 months?
86	major_crop_soilfertility1	1	major_crop_resid	first major crop used for soil fertility
87	percent_soilfertility1	1		percentage of this crop residue used for soil fertility
88	major_crop_soilfertility2	1	major_crop_resid	second major crop used for soil fertility
89	percent_soilfertility2	1		percentage of this crop residue used for soil fertility

90	major_crop_soilfertility3	1	major_crop_resid	third major crop used for soil fertility
91	percent_soilfertility3	1		percentage of this crop residue used for soil fertility
92	croppresidue4_compost	1	yesno	Have you used crop residue for compost over the last 12 months?
93	major_crop_compost1	1	major_crop_resid	first major crop used for compost
94	percent_compost1	1		percentage of this crop residue used for compost
95	major_crop_compost2	1	major_crop_resid	second major crop used for compost
96	percent_compost2	1		percentage of this crop residue used for compost
97	major_crop_compost3	1	major_crop_resid	third major crop used for compost
98	percent_compost3	1		percentage of this crop residue used for compost
99	croppresidue4_houseandfence	1	yesno	Have you used crop residue for housing or fencing over the last 12 months?
100	major_crop_houseandfence1	1	major_crop_resid	first major crop used for housing and fencing
101	percent_houseandfence1	1		percentage of this crop residue used for houseandfence
102	major_crop_houseandfence2	1	major_crop_resid	second major crop used for housing and fencing
103	percent_houseandfence2	1		percentage of this crop residue used for houseandfence
104	major_crop_houseandfence3	1	major_crop_resid	third major crop used for housing and fencing
105	percent_houseandfence3	1		percentage of this crop residue used for houseandfence
106	croppresidue4_income	1	yesno	Have you sold crop residue for income over the last 12 months?
107	major_crop_income1	1	major_crop_resid	first major crop used for income
108	percent_income1	1		percentage of this crop residue sold over the last 12 months
109	major_crop_income2	1	major_crop_resid	second major crop used for income

110	percent_income2	1		percentage of this crop residue sold over the last 12 months
111	major_crop_income3	1	major_crop_resid	third major crop used for income
112	percent_income3	1		percentage of this crop residue sold over the last 12 months
113	percent_income4	1		over the last 3 months, what percentage of total crop residue has been sold?
114	cropresidue4_purch	1	yesno	Have you purchased crop residue over the last 12 months?
115	feed_purch	1	yesno	Was this for feed?
116	feed_purch_q	1		Quantity purchased (kg)
117	major_crop_purch1	1	major_crop_resid	major crop residue purchased
118	house_ownership	1	yesno	Do you own a house?
119	roof_material	1	roof_material	What is the major construction material use to make the roof of the house?
120	wall_material	1	wall_material	What is the major construction material use to make the walls of the house?
121	floor_material	1	floor_material	What is the major construction material use to make the floor of the house?
122	TV_number_owned	1		number of TV owned
123	TV_unitvalue	1		value of TV owned
124	Radio_number_owned	1		number of Radio owned
125	Radio_unitvalue	1		value of Radio owned
126	Bike_number_owned	1		number of Bike owned
127	Bike_unitvalue	1		value of Bike owned
128	Motorbike_number_owned	1		number of Motorbike owned
129	Motorbike_unitvalue	1		value of Motorbike owned
130	weeklyMB_fuel_liter	1		fuel of weeklyMB liter
131	weeklyMB_fuel_expenditure_Birr	1		fuel_expenditure of weeklyMB expenditure
132	Mobilephone_number_owned	1		number of Mobilephone owned

133	Mobilephone_unitvalue	1		value of Mobilephone owned
134	weekly_mobile_expenditure	1		mobile of weekly expenditure
135	Gridiningmill_number_owned	1		number of Gridiningmill owned
136	Grindingmill_unitvalue	1		value of Grindingmill owned
137	weeklyGrindingM_fuel_liter	1		fuel of weeklyGrindingM liter
138	week_grindfuel_exp	1		fuel_expenditure of weeklyGrindingM expenditure
139	Waterpump_number_owned	1		number of Waterpump owned
140	Waterpump_unitvalue	1		value of Waterpump owned
141	Weekly_Waterpump_fuel_liter	1		Waterpump_fuel of Weekly fuel
142	week_waterpump_fuel_exp	1		waterpump_fuel_expenditure of weekly fuel Birr
143	Traditionalstove_number_owned	1		number of Traditionalstove owned
144	Traditionalstove_unit_Value	1		unit of Traditionalstove Value
145	Improvedstove_number_owned	1		number of Improvedstove owned
146	Improvedstove_unit_Value	1		unit of Improvedstove Value
147	times_improved_stove	1		Over last month - what percentage of cooking was done using a Traditional stove?
148	Plough_number_owned	1		number of Plough owned
149	Plough_unit_value	1		unit of Plough value
150	Cart_number_owned	1		number of Cart owned
151	Cart_unit_value	1		unit of Cart value
152	SewingMachine_number_owned	1		number of SewingMachine owned
153	Sewingmachine_unit_value	1		unit of Sewingmachine value
154	numberof_plots	1		number of plots operated on
155	Tree_planting	1	yesno	Do you plant trees?
156	Tree_Spp	0		types of tree species planted by a household
157	Tree_fuelpurpose	1	yesno	fuel wood

158	Tree_constmaterialpurpose	1	yesno	construction material
159	Tree_feedpurpose	1	yesno	feed
160	Tree_shelterpurpose	1	yesno	shelter
161	Tree_moneypurpose	1	yesno	money
162	Tree_fruitpurpose	1	yesno	fruit harvesting
163	Tree_agroforestrypurpose	1	yesno	agroforestry
164	Tree_livefencespurpose	1	yesno	live fences
165	Tree_mulchingpurpose	1	yesno	for mulching material
166	Tree_selectioncriteria	0		Criteria used to select tree species
167	Tree_plantingareas	0		areas where trees are majorly planted
168	source_treeseedlings	0		source of tree seedlings
169	relaibility_seedlingsource1	1	relaibility_seedlingsource	reliability of sources of seedlings from own nursey
170	relaibility_seedlingsource2	0		reliability of sources of seedlings Woreda bureaue of agriculture
171	relaibility_seedlingsource3	1	relaibility_seedlingsource	reliability of sources of seedlings from NGO
172	relaibility_seedlingsource4	0		reliability of sources of seedlings bought from market
173	naturallygrowing_trees	1	yesno	Are there naturally growing trees in your area?
174	naturallygrowing_treespp	0		What are they?
175	Treespp	0		Which tree species do you use (any purpose)?
176	trees_purp	1		Four most important tree species
177	lv_measure	1	q_measure	Unit of measurement for leaves?
178	wd_measure	1	q_measure	Unit of measurement for wood ?
179	lv_measure_oth	1		Describe Unit of measurement for leaves
180	wd_measure_oth	0		Describe Unit of measurement for wood
181	Eucalyptus_cashvalue	1	yesno	has cash value
182	Eucalyptus_fastgrowth	1	yesno	grows fast

183	Eucalyptus_lessmanagment	1	yesno	needs less managment
184	Eucalyptus_grow_onpoor_soil	1	yesno	thrives on poor soil
185	Eucaly_lvbrwood	1	yesno	its leaves and branches are used for firewood
186	Eucalyptus_insurance	1	yesno	serves as an insurance in times of crop failure
187	Grassp	1	Plot_grasspp	What grass species do you grow in the last season?
188	gr_measure	1	q_measure	Unit of measurement for grass?
189	gr_measure_oth	1		Describe Unit of measurement for grass
190	grarea_ele	1		area used to planted this grass type in Timad
191	grdist_ele	1		distance of plot measured from homestead (km)
192	grasspurp_ele	1	Purpose_Plot_grasspp	main purpose of planting grass on plot
193	grseedsources_ele	1	seedsources_grasspp	source of seed
194	grharvestfrq_ele	1	harvest_freq_grasspp	harvesting frequency of grass per month
195	gr_ownuse_ele	1		amount of this grass used for own consumption ?
196	gr_sale_ele	1		amount of grass used for sale purpose ?
197	grarea_des	1		area used to planted this grass type in Timad
198	grdist_des	1		distance of plot measured from homestead (km)
199	grasspurp_des	1	Purpose_Plot_grasspp	main purpose of planting grass on plot
200	grseedsources_des	1	seedsources_grasspp	source of seed
201	grharvestfrq_des	1	harvest_freq_grasspp	harvesting frequency of grass
202	gr_ownuse_des	1		amount of this grass used for own consumption ?
203	gr_sale_des	1		amount of grass used for sale purpose ?
204	grarea_alf	1		area used to planted this grass type in Timad
205	grdist_alf	1		distance of plot measured from homestead (km)

206	grasspurp_alf	1	Purpose_Plot_grasspp	main purpose of planting grass on plot
207	grseedsources_alf	1	seedsources_grasspp	source of seed
208	grharvestfrq_alf	1	harvest_freq_grasspp	harvesting frequency of grass
209	gr_ownuse_alf	1		amount of this grass used for own consumption ?
210	gr_sale_alf	1		amount of grass used for sale purpose ?
211	grarea_vet	1		area used to planted this grass type in Timad
212	grdist_vet	1		distance of plot measured from homestead (km)
213	grasspurp_vet	1	Purpose_Plot_grasspp	main purpose of planting grass on plot
214	grseedsources_vet	1	seedsources_grasspp	source of seed
215	grharvestfrq_vet	1	harvest_freq_grasspp	harvesting frequency of grass
216	gr_ownuse_vet	1		amount of this grass used for own consumption ?
217	gr_sale_vet	1		amount of grass used for sale purpose ?
218	Oxen_number_owned	1		Oxen owned
219	Bull_number_owned	1		Bulls owned
220	Cow_number_owned	1		Cows owned
221	Heifer_number_owned	1		Heifers owned
222	Calf_number_owned	1		Calfs owned
223	Sheep_number_owned	1		Sheep owned
224	Goat_number_owned	1		Goats owned
225	Donkey_number_owned	1		Donkeys owned
226	Mule_number_owned	1		Mules owned
227	Horse_number_owned	1		Horses owned
228	Chicken_number_owned	1		Chickens owned
229	Animal_dung_collected	1		Over the last 3 months, on average how much animal dung was collected each week
230	dg_measure	1	dung_measure	Unit of measurement for dung?

23 1	animal_dung_collection_freq uency	1	animal_dung_collection_fre quency	on average how frequently is dung collected
23 2	dg_measure_oth	0		Describe Unit of measurement for dung
23 3	animal_dung_usetype	1		sold?
23 4	animal_dung_ownuse_firew ood	1		used for fuel
23 5	animal_dung_ownuse_organ icM	1		used for organic matter ?
23 6	dungownuse_stalk_drying	1		used for stalk piling and drying?
23 7	animal_dung_ownuse_comp osting	1		for composting?
23 8	Feedtypes	0		What types of animal feed have you used over the last 3 months?
23 9	feed_ownuse_ss	1		own grown crop used as an animal feed
24 0	feed_purchased_ss	1		purchased from the market for animal feed (kg)
24 1	moneypaid_ss	1		amount paid (BIRR)
24 2	feed_ownuse_maz	1		own grown crop used as an animal feed (kg)
24 3	feed_purchased_maz	1		purchased from the market for animal feed (kg)
24 4	moneypaid_maz	1		amount paid (BIRR)
24 5	feed_ownuse_whe	1		own grown crop used as an animal feed (kg)
24 6	feed_purchased_whe	1		purchased from the market for animal feed (kg)
24 7	moneypaid_whe	1		amount paid (BIRR)
24 8	feed_ownuse_tef	1		own grown crop used as an animal feed (kg)
24 9	feed_purchased_tef	1		purchased from the market for animal feed (kg)
25 0	moneypaid_tef	1		amount paid (BIRR)
25 1	feed_ownuse_mil	1		own grown crop used as an animal feed (kg)
25 2	feed_purchased_mil	1		purchased from the market for animal feed (kg)
25 3	moneypaid_mil	1		amount paid (BIRR)

254	feed_ownuse_har	1		own grown crop used as an animal feed (kg)
255	feed_purchased_har	1		purchased from the market for animal feed (kg)
256	moneypaid_har	1		amount paid (BIRR)
257	feed_ownuse_gmz	1		own grown crop used as an animal feed (kg)
258	feed_purchased_gmz	1		purchased from the market for animal feed (kg)
259	moneypaid_gmz	1		amount paid (BIRR)
260	feed_ownuse_mzg	1		own grown crop used as an animal feed (kg)
261	feed_purchased_mzg	1		purchased from the market for animal feed (kg)
262	moneypaid_mzg	1		amount paid (BIRR)
263	feed_ownuse_ate	1		own grown crop used as an animal feed (kg)
264	feed_purchased_ate	1		purchased from the market for animal feed (kg)
265	moneypaid_ate	1		amount paid (BIRR)
266	Dist_open_grazing	1		distance to open grazing on fields of crop leftovers (km)
267	time_open_grazing	1		time to open grazing on fields of crop leftovers (hours)
268	open_garzing_responsible_member	1	open_garzing_responsible_member	member responsible for open grazing on fields of crop leftovers
269	Dist_past_grazing_water	1		distance to remote areas for watering and feeding during dry seasons
270	time_past_grazing_water	1		time taken to remote areas for watering and feeding during dry seasons
271	pastoralist_grazing_watering	1	pastoralist_grazing_watering	member responsible for pastoralist grazing
272	cooperative_membership	1	yesno	cooperative membership of a household
273	women_association_membership	1	yesno	membership to women associations
274	Idir_membership	1	yesno	membership to idir

275	Ekub_membership	1	yesno	membership to ekub
276	Mahber_membership	1	yesno	membership to local mahber
277	saving_credit_access	1	yesno	Access to saving and credit
278	emergency_laon	1		If there was an emergency expenditure needed for the household, how much money d
279	crop_insurance_access	1	yesno	Access to crop insurance
280	livestock_insurance_access	1	yesno	Access to livestock insurance
281	toilet_access	1	yesno	Access to toilet
282	telephon_access	1	yesno	Access to telephone
283	electricity_access	1	yesno	Do you have access to Electricity services?
284	purpose_of_electriccity	0		purposes for which electricity is used
285	electricity_everyday	1	yesno	availability of electricity everyday
286	solar_panel_access	1	yesno	access to solar panel
287	solar_energy_use	1	yesno	whether a household uses solar energy or not
288	purpose_of_solar_energy	1	purpose_of_solar_energy	purposes for which solar energy is used
289	reason_NO_solar_energy	0		reasons if a household does not access solar energy
290	kerosene_access	1	yesno	access to kerosene
291	purpose_of_Kerosene_ener gy	1	purpose_of_Kerosene_ene rgy	purposes for which kerosene energy is used
292	frequency_kersone_purhcas e	1	frequency_kersone_purhca se	frequency of kerosne purchase
293	kerosene_liters_perfrequenc y	1		amount of kerosene purchased in litres
294	kerosene_purcahse_place	1	kerosene_purcahse_place	kersone station where households buy from
295	dist_kersone_stat	1		distance travelled to get to the kerosene station in hours
296	transportation_Fee_roundtri p	1		money paid for transporation for one round trip
297	fuelwood_energy_use	1	yesno	Has fuelwood been used as an energy source by the household over the last 3 months

29 8	fuelwood_availability	1	fuel_availability	frequency of availability of fuelwood for use
29 9	fuelwood_purpose	0		purpose for which fuel wood energy is used for
30 0	woodbundles_perweek	1		On average, what was the typical amount of wood used per week over the last mont
30 1	wd_measure2	1	q_measure	Unit of measurement for wood ?
30 2	wd_measure_oth2	1		Describe Unit of measurement for wood
30 3	fuelwood_source	0		Sources of fuelwood
30 4	fuelwood_collect_member	0		Which members of the household typically collect the fuelwood?
30 5	woodpurch_perc	1		What percentage of wood used over the last month was purchased?
30 6	woodpurch_pr	1		On average what was the cost of wood purchased per unit ? (BIRR)
30 7	perc_wood	1		Over the last month, approximately what % of household cooking was done using fu
30 8	Charcoal_energy_use	1	yesno	Has charcoal been used as an energy source by the household over the last 3 mont
30 9	charcoal_availability	1	fuel_availability	frequency of availability of charcoal for use
31 0	charcoal_purpose	0		purpose for which charcoal energy is used for
31 1	charcoalbundles_perweek	1		On average, what was the typical amount of charcoal used per week over the last
31 2	ch_measure	1	q_measure	Unit of measurement for charcoal?
31 3	ch_measure_oth	1		Describe Unit of measurement for charcoal
31 4	Charcoal_source	1	fuel_source	source of Charcoal energy

31 5	charcoal_making_member	1	HH_member	Which members of the household make charcoal
31 6	charpurch_perc	1		What percentage of charcoal used over the last month was purchased?
31 7	charpurch_pr	1		On average what was the cost of crop residue purchased per unit ? (BIRR)
31 8	perc_charc	1		Over the last month, approximately what % of household cooking was done using ch
31 9	CropRes_energy_use	1	yesno	Has crop residues been used as an energy source by the household over the last 3
32 0	cropResi_availability	1	fuel_availability	frequency of availability of Crop Residue for use
32 1	cropResi_purpose	0		purpose for which crop residue energy is used for
32 2	cropres_perweek	1		On average, what was the typical amount of crop residue used per week over the l
32 3	cr2_measure	1	q_measure	Unit of measurement for Crop residue ?
32 4	cr2_measure_oth2	1		Describe Unit of measurement for crop residue
32 5	CropResi_source	1	fuel_source	What was the source of Crop residue ?
32 6	cropResi_collect_member	0		members of the household who collect cropresidue
32 7	crprespurch_perc	1		What percentage of crop residue used for energy over the last month was purchase
32 8	crprespurch_pr	1		On average what was the cost of crop residue purchased per unit ? (BIRR)
32 9	perc_cropres	1		Over the last month, approximately what % of household cooking was done using cr
33 0	cropResi_limited_purpose	1	cropResi_limited_purpose	the most preferred use of crop residue when it is critically scarce
33 1	Manure_dung_energy_use	1	yesno	Has manure or dung been used as an energy source by the

				household over the last
33 2	manure_dung_availability	1	fuel_availability	frequency of availability of manure dung for use
33 3	Manure_dung_source	1	fuel_source	source of Manure dung energy
33 4	dung_perweek	1		On average, what was the typical amount of dung used per week over the last month
33 5	dg_measure2	1	dung_measure	Unit of measurement for dung?
33 6	dg_measure_oth2	1		Describe Unit of measurement for dung
33 7	manure_dung_purpose	0		purpose for which manure dung energy is used for
33 8	manure_dung_collect_member	0		members of the household who collect manure dung
33 9	dungpurch_perc	1		What percentage of dung used for energy over the last month was purchased?
34 0	dungpurch_pr	1		On average what was the cost of dung purchased per unit ? (BIRR)
34 1	perc_dung	1		Over the last month, approximately what % of household cooking was done using dung
34 2	manure_dung_limited_purpose	1	manure_dung_limited_purpose	the most preferred use from manure dung when it is critically scarce
34 3	Biogas_energy_use	1	yesno	Has biogas been used as an energy source by the household over the last 3 months
34 4	biogas_availability	1	fuel_availability	frequency of availability of biogas for use
34 5	Biogas_source	1	fuel_source	source of Biogas energy
34 6	manurebiogas_energy_percentused	1		percent of manure used as bio gas energy source
34 7	biogas_purpose	1	fuel_purpose	purpose for which biogas energy is used for
34 8	biogas_making_member	1	HH_member	members of the household who prepare biogas

349	perc_bio	1		Over the last month, approximately what % of household cooking was done using bi
350	pipewater_access	1	yesno	In most weeks in the year do you have access to pipe water?
351	source_pwater	1	wherepipewater	Where do you mostly get access to pipe water?
352	dist_pwater	1		How far is this pipe water from your home (km)
353	time_pwater	1		How long does it take to get to this source (hours)
354	pipewater_purchase	1	yesno	Do you buy pipe water from this source?
355	pipewater_price_perliter	1		price paid for a liter of pipe water
356	pwatscarce_month_1	0		Over the last 12 months was tap water unavailable from this source in any months
357	numberofdays_pipewater_availbile	1		for how many days per week was tap water available from this source over the 3 m
358	dist_travelled_tapwater	1		How far do you have to travel to get to the next pipe water point? (km)
359	time_travelled_tapwater	1		How long does it take to travel to get to the next pipe water point? (hours)
360	waterscarcity_month	0		Over the last 12 months when was tap water critically scarce or unavailable?
361	bottledwater_purchase	1	yesno	Do you buy bottled water?
362	bottledwater_pur_wk	1		How many liters do you buy per week?
363	price_bottledwater_liter	1		How much do you pay for a liter?
364	water_buy	1	freq_waterbuy	How frequently do you buy bottled water?
365	altwat_use	0		Over the last 3 months have you used any of the following sources for water
366	home_to_river_time	1		How long does it take to get from home to

				this water source (hours)
36 7	member_fetching_river	0		Typically who is responsible for fetching water from this source?
36 8	river_use	0		What have you used water from here for over the last 3 months?
36 9	river_quality	0		Thinking about the quality of this water source? Indicate what uses it is good
37 0	river_scarce_month	0		Over the last 3 months was this source critically scarce/unavailable in any mont
37 1	home_to_well_time	1		How long does it take to get from home to this water source (hours)
37 2	member_fetching_well	1	altwat_HHmember	Typically who is responsible for fetching water from this source?
37 3	well_use	1	altwat_use	What have you used water from this source for over the last 3 months?
37 4	well_quality	1	altwat_quality	Thinking about the quality of this water source? Indicate what uses it is good
37 5	well_scarce_month	0		Over the last 3 months was this source critically scarce/unavailable in any mont
37 6	home_to_pwell_time	1		How long does it take to get from home to this water source (hours)
37 7	member_fetching_pwell	1	altwat_HHmember	Typically who is responsible for fetching water from this source?
37 8	pwell_use	1	altwat_use	What have you used water from this source for over the last 3 months?
37 9	pwell_quality	1	altwat_quality	Thinking about the quality of this water source? Indicate what uses it is good
38 0	pwell_scarce_month	0		Over the last 3 months was this source critically

				scarce/unavailable in any mont
38 1	home_to_rwh_time	1		How long does it take to get from home to this water source (hours)
38 2	member_fetching_rwh	0		Typically who is responsible for fetching water from this source?
38 3	rwh_use	0		What have you used water from this source for over the last 3 months?
38 4	rwh_quality	0		Thinking about the quality of this water source? Indicate what uses it is good
38 5	rwh_scarce_month	0		Over the last 3 months was this source critically scarce/unavailable in any mont
38 6	home_to_sprh_time	1		How long does it take to get from home to this water source (hours)
38 7	member_fetching_sprh	1	altwat_HHmember	Typically who is responsible for fetching water from this source?
38 8	sprh_use	1	altwat_use	What have you used water from this source for over the last 3 months?
38 9	sprh_quality	1	altwat_quality	Thinking about the quality of this water source? Indicate what uses it is good
39 0	sprh_scarce_month	1	whichmonth	Over the last 3 months was this source critically scarce/unavailable in any month
39 1	home_to_comh_time	1		How long does it take to get from home to this water source
39 2	member_fetching_comh	0		Typically who is responsible for fetching water from this source?
39 3	comh_use	0		What have you used water from this source for over the last 3 months?
39 4	comh_quality	0		Thinking about the quality of this water source? Indicate what uses it is good

39 5	comh_scarce_month	0		Over the last 3 months was this source critically scarce/unavailable in any month
39 6	home_to_indph_time	1		How long does it take to get from home to this water source
39 7	member_fetching_indph	1	altwat_HHmember	Typically who is responsible for fetching water from this source?
39 8	indph_use	0		What have you used water from this source for over the last 3 months?
39 9	indph_quality	0		Thinking about the quality of this water source? Indicate what uses it is good
40 0	indph_scarce_month	1	whichmonth	Over the last 3 months was this source critically scarce/unavailable in any mont
40 1	livestock_WP_distance_Kiremet	1		How far is the distance to the next alternative water point during kiremet in KM
40 2	livestock_WP_travelttime_kirmet	1		How long does it take to travel to the next alternative water point during kirem
40 3	livestock_WP_distance_Bega	1		How far is the distance to the next alternative water point during Bega in KM
40 4	livestock_WP_travelttime_Bega	1		How long does it take to travel to the next alternative water point during Bega
40 5	Home_blate_rive_distance_Bega_KM	1		what is the distance to Blate river from your home measured in KM during Bega
40 6	livest_water_mahber	1	yesno	Are there informal associations to water your livestock?
40 7	mahber_members	1	mahber_members	with whom are the informal associations formed?
40 8	livesock_watering_freq_Kiremet	1	livestock_watering_freq	How frequently do you guide your livestock to a water point in kiremt ?
40 9	livestock_watering_freq_bega	1	livestock_watering_freq	How frequently do you guide your livestock to a water point in Bega?

410	wateraccessing_problem	1	yesno	In general do you think there are problems in accessing water?
411	wateraccessing_main_problems	0		what are the main water accessing problems
412	water_scarcity_alternatives	1	water_scarcity_alternatives	Optional water sources when energy sources are diminished and found in nearby
413	water_scarcity_priority	1	yesno	are there priorities in the community when water sources are scarce
414	water_priority	1	water_priority	who gets the priority when water sources are scarce
415	equal_comm_water_sharing	1	yesno	Is water shared equally shared among the community during water scarcity?
416	water_sharing_criteria	1	yesno	are there water sharing criteria?
417	priority_given_to	1	priority_given_to	who gets the priority when water is shared
418	crop_failure_adaptation	0		methods of adaptation to difficult times during times of crop failure
419	food_limited_priority_to	1	food_limited_priority_to	who gets the priority when food is limited in a household
420	energy_scarcity_conflict	1	yesno	are there conflicts because of energy scarcity
421	water_scarcity_conflict	1	yesno	are there conflicts because of water scarcity
422	food_scarcity_conflict	1	yesno	are there conflicts because of food scarcity
423	energy_scarcity_alternatives	1	energy_scarcity_alternatives	Optional energy sources when energy sources are diminished and found in nearby
424	energy_scarcity_priority	1	yesno	are there priorities in the community when energy sources are scarce
425	energy_priority	1	energy_priority	who gets the priority when energy sources are scarce

Value Labels

water_priority:

- 1 households with larger family
- 2 Older men and women
- 3 Pregnant women
- 4 disabled

water_scarcity_alternatives:

- 1 Purchase bottled water
- 2 Travel long distance to get water
- 3 Drink water from sources normally not used for drinking
- 4 Rain water harvesting

energy_priority:

- 1 households with larger family
- 2 Older men and women
- 3 Pregnant women
- 4 disabled

energy_scarcity_alternatives:

- 1 Cutting tree branches
- 2 detach trees used as fences
- 3 purchase from the market

food_limited_priority_to:

- 1 Husband
- 2 elder men
- 3 elder women
- 4 Children
- 5 sons
- 6 daughters
- 7 members who work at the farm

priority_given_to:

- 1 Family with larger members
- 2 Elderly family
- 3 family with disable parents

livestock_watering_freq:

- 1 Every day
- 2 Every three days
- 3 Every week

mahber_members:

- 1 Relative
- 2 Neighbour

altwat_quality:

- 1 for drinking and cooking
- 2 for washing clothes
- 3 for personal hygiene
- 4 for livestock

altwat_use:

- 1 Drinking and Cooking
- 2 Washing clothes and shower
- 3 Personal hygiene
- 4 Livestock watering

5 Food Preparation

6 Irrigation

altwat_HHmember:

1 young boys

2 young girls

3 women

4 men

freq_waterbuy:

1 when a family member is sick

2 when we don't have other options

3 normally at least once a week

4 normally at least once a month

wherepipewater:

1 Own pipe water

2 Neighbour's pipe water

3 Community Pipe water

manure_dung_limited_purpose:

1 prepare dungcake

2 use it as manure

cropResi_limited_purpose:

1 use it for housing construction

2 use it as fuelwood

3 use it as organic matter

HH_member:

1 Sons

2 daughters

3 Men

4 Women

fuel_availability:

1 all the year round

2 only in dry season

3 only in wet season

fuel_purpose:

1 preparing sauce

2 Baking injera

3 Boiling water

fuel_source:

1 Own

2 Purchased

3 Communal

kerosene_purchse_place:

1 village retailers

2 Halaba city retailers

3 gas stations in Halaba

frequency_kersone_purhcase:

1 once a week

2 twice a week

3 twice a month

4 once a month

purpose_of_Kerosene_energy:

1 cooking food

2 light source

3 boiling water

purpose_of_solar_energy:

1 cooking food

2 light source

3 follow mass media

4 charging mobile

5 ironing

pastoralist_grazing_watering:

1 neighbours

2 family relatives

open_garzing_responsible_member:

1 young boys

2 young girls

3 sons

4 daughters

5 elders

animal_dung_collection_frequency:

1 Every day

2 Every other day

3 Every three days

4 Once a week

harvest_freq_grasspp:

1 Every two weeks

2 Every month

3 every three months

4 Every six months

5 Every year

seedsource_grasspp:

1 Woreda Bureau of Agriculture

2 Research center

3 Relative

4 Neighbourhood

5 Own nursery

Purpose_Plot_grasspp:

1 Fodder value

2 Soil stabilization

3 Straw for housing construction

4 mulching

Plot_grasspp:

1 Elephant grass

2 Desho grass

3 Alfalfa

4 Vetivar grass

reliability_seedlingsource:

1 Strongly reliable

2 Reliable

3 Moderately reliable

4 Unreliable

5 Strongly unreliable

dung_measure:

- 1 kg
- 2 dung cake equivalent
- 3 other

q_measure:

- 1 Esir
- 2 Shakim
- 3 kg
- 4 Other

floor_material:

- 1 Leveled Earth
- 2 Cement
- 3 Concrete
- 4 Bamboo strips

wall_material:

- 1 Wood, Mud and Straw
- 2 Mud Block
- 3 Brick and Cement
- 4 Mud, Starw and Cement
- 5 Crop Straw

roof_material:

- 1 Grass Roof
- 2 Corrugated iron
- 3 Crop residue
- 4 Plastic Sheet

major_crop_resid:

- 1 Teff
- 2 Maize
- 3 Wheat
- 4 Haricotbean
- 5 Other

whichmonth:

- 1 January
- 2 February
- 3 March
- 4 April
- 5 May
- 6 June
- 7 July
- 8 August
- 9 September
- 10 October
- 11 November
- 12 December

relationship:

- 1 Head
- 2 Spouse
- 3 Son/Daughter
- 4 Grandchild
- 5 Father/Mother
- 6 Sister/Brother
- 7 Niece/Nephew

- 8 Uncle/Aunt
- 9 Grandparents
- 10 Other Relatives
- 11 Servant
- 12 Non Relatives

File Trees-round1.dta

No	variable name	Type 1=numeric , 0=String	Value labels used	Description
1	chhid	1		cross survey household id - where HH not matched missing
2	hhid	1		numeric household identifier
3	treesp_i	0		Four most important tree species for household
4	trees_purpose_sp	0		Purpose of tree species
5	trees_own	1		Where are these trees growing?
6	Trees_seedsource_sp	0		source of seedlings
7	n_trees_sp	1		number of trees
8	Trees_plantingyear_s p	1		When were they planted? (year)
9	Trees_distance_sp	1		distance of from homestead (km)
10	leaves_time_sp	1		average time taken to collect wood or leaves from per week in current month (h
11	leaves_quant_sp	1		average quantity of leaves collected per week in current month (shekim)
12	wood_quant_sp	1		average quantity of wood collected per week in current month (esir)
13	ntrees_ownuse_sp	1		number of trees felled for own purpose last season
14	ntrees_sale_sp	1		number of trees felled for sale last season
15	duruse_fire_sp	1		length of time a tree or leave serves as a firewood once collected (days)
16	duruse_fod_sp	1		length of time a tree or leave serves as a fodder once collected (days)
17	trfood_owncon_sp	1		amount of food collected last season for own use (fruit trees only)
18	trfood_sale_sp	1		amount of food collected last season for sale (fruit trees only)

File Plotdata-round1.dta

No	variable name	Type 1=numeric, 0=String	Value labels used	Description
3	plot_size	1		Plot size (Timad)
4	plot_distance_km	1		Plot distance from homestead
5	crop_type	1	crop_type	Crop type planted on plot last season
6	crop_seas	1	cropseason	Which season?
7	seed_type	1	seed_type	seed type used for plot
8	seed_kg_plot	1		amount of seed applied on plot measured in KG
9	fertility_status	1	fertility_status	fertility status of plot
10	irrigation	1	yesno	whether plot is irrigated or not
11	dap_plot_kg	1		DAP fertilizer applied on plot in KG
12	urea_plot_kg	1		UREA fertilizer applied on plot in KG
13	manure_plot_kg	1		Manure fertilizer applied on plot in KG
14	male_landpp_labor	1		Male labor used for land preparation and ploughing (number of days)
15	female_landpp_labor	1		Female labor used for land preparation and ploughing (number of days)
16	male_wedcul_labor	1		Male labor used for weeding and cultivation (number of days)
17	female_wedcul_labor	1		Female labor used for weeding and cultivation (number of days)
18	male_fertapp_labor	1		Male labor used for fertilizer application (number of days)
19	female_fertapp_labor	1		Female labor used for fertilizer application (number of days)
20	male_harvesting_labor	1		Male labor used for Harvesting (number of days)
21	female_harvesting_labor	1		Female labor used for Harvesting (number of days)
22	male_threshing_labor	1		Male labor used for Threshing (number of days)
23	female_threshing_labor	1		Female labor used for Threshing (number of days)
24	male_transmkt_labor	1		Male labor used for Transporting and marketing (number of days)
25	female_transmkt_labor	1		Female labor used for transporting and Marketing (number of days)
26	plot_production_qt	1		Production harvested from plot (number of days)

Value Labels

fertility_status:

- 1 Rich
- 2 Medium
- 3 Poor

cropseason:

- 1 Meher
- 2 Belg

seed_type:

- 1 Improved seed
- 2 Local seed

crop_type:

- 1 Sorghum
- 2 Teff
- 3 Maize
- 4 Wheat
- 5 Haricoatbean
- 6 Pepper
- 7 Millet
- 8 Potato

File inddata-round1.dta

No	variable name	Type 1=numeric, 0=String	Value labels used	Description
1	chhid	1		cross survey household id - where HH not matched missing
2	hhid	1		numeric household identifier
3	pno	1		person number within household
4	ishoh	1	yesno	Is the respondent the head of household?
5	gender	1	gender	Gender of the respondent
6	age	1		Age of the respondent
7	farm_experience	1		Years of farming experience
8	education	1		How many years did respondent attend school?
9	highest_educ	1	edulevel	What was the highest education level attained?
10	marital_status	1	marital	Marital Status of the household
11	family_size_resp	1		What is the size of the respondent's household
12	poccupation_resp	1	occupation	Primary Occupation of the respondent
13	mincome	1	_mincome	Major source of respondent's income
14	sincome	1	_sincome	Other Secondary source(s) of income
15	t_water_oth	1		How many hours did you spend yesterday collecting water?
16	t_fire_oth	1		How many hours did you spend yesterday collecting firewood?
17	t_cook_oth	1		How many hours did you spend yesterday cooking?
18	t_dung_oth	1		How many hours did you spend in the last seven days collecting dung?
19	t_past_oth	1		How many hours in the last seven days did you spend supervising open grazing and/or watering of livestock?
20	t_aghh_oth	1		How many hours in the last seven days did you spend on household agricultural activities (including livestock activities) whether for sale or for household use?
21	t_off_oth	1		How many hours in the last seven days did you do any work for a wage, salary, commission, or any payment in kind? (main_econact-off_resp-off_resp3-t_off_resp)"

22	t_noag_oth	1		How many hours in the last seven days did you run or help with any kind of non-agricultural household business, for yourself or for the household? (main_econact-off_resp-off_resp3-t_noag_r)"
23	offfarm_oth	1	yesno	Excluding wage commssion labour, at any time over the last 3 months, were you employed for a job for a wage, salary, commission or any payment in kind, for anyone who is not a member of your household?
24	off_othocc	1	occupation	How would you describe the occupation of the main job you were employed in during this period? (main job = most hours)
25	off_othmonths	1		In how many months over the last 3 months did you work at this job?
26	off_othweeks	1		During these months, approximately on average how many weeks per month did you work at this job?
27	off_othhours	1		During the weeks you worked on this job, approximately on average how many hours per week did you work at this job?
28	off_rpay	1		How much was the last payment for wages/salary for this job (birr)?
29	off_rpayperiod	1	payperiod	What period of time did this wages/salary payment cover?
30	wcuse_oth	1	yesno	At any time over the last 3 months, were you employed on wage commssion labour?
31	wc_othmonths	1		In how many months over the last 3 months did you work on wage commssion labour
32	wc_othweeks	1		During these months, approximately on average how many weeks per month did you work at wage commssion labour
33	wc_othhours	1		During the weeks you worked on this, approximately on average how many hours per week did you work at this wage commssion labour?
34	ill_lastmonth	1	yesno	Were you ill during the previous month
35	sickdays	1		for how many days were you sick

36	medicaltrt	1	received_medicaltrt	did you receive medical treatment
37	medicalcenter	1	medicaltrt_center	where did you receive medical treatment
38	medicalcenter_KM	1		distance of the medical center from your home (km)
39	medicaltrt_exp	1		amount of money spent for the medical treatment you received (birr)
40	hoh_reln	1	relationship	What is 's relationship to the head of household?
41	atschool	1	yesno	Is child currently attending school?
42	timeto_school	1		How much time does it normally take to get to school? (in minutes) ?
43	why_absentschnow	0		Why is child not currently attending school?
44	absent_lastmonth	1	yesno	Was child absent from school last month for more than a week?
45	why_absentschmonth	1	schoolmiss	Why was child absent ?
46	why_absentschnow_1	1	yesno	why_absentschnow holiday
47	why_absentschnow_2	1	yesno	why_absentschnow sickness
48	why_absentschnow_3	1	yesno	why_absentschnow death in the family
49	why_absentschnow_4	1	yesno	why_absentschnow working for money
50	why_absentschnow_5	1	yesno	why_absentschnow fetchingwater
51	why_absentschnow_6	1	yesno	why_absentschnow fetching fuel wood
52	why_absentschnow_7	1	yesno	why_absentschnow caring siblings
53	why_absentschnow_8	1	yesno	why_absentschnow school to far away
54	why_absentschnow_9	1	yesno	why_absentschnow no money for school
55	why_absentschnow_10	1	yesno	why_absentschnow refusal to go to school
56	why_absentschnow_11	1	yesno	why_absentschnow due to shortage of food
57	why_absentschnow_12	1	yesno	why_absentschnow no teachers/school not operating
58	causes_illness_1	1	yesno	causes_illness intestinal parasite
59	causes_illness_2	1	yesno	causes_illness food problem
60	causes_illness_3	1	yesno	causes_illness malaria
61	causes_illness_4	1	yesno	causes_illness Diarrhea
62	causes_illness_5	1	yesno	causes_illness Injury
63	causes_illness_6	1	yesno	causes_illness Other

Value Labels

gender:

- 1 Male
- 2 Female

marital:

- 1 Married, single spouse
- 2 Married, more than one spouse
- 3 Single
- 4 Divorced
- 5 Widowed

occupation:

- 1 Farming
- 2 Trading
- 3 Handcraft
- 4 Civil_servant
- 5 Laborer
- 6 Other

edulevel:

- 1 Not in School
- 2 first cycle (1-4)
- 3 second cycle (5 - 8)
- 4 secondary education (9 - 10)
- 5 preparatory and above

payperiod:

- 1 Hour
- 2 Day
- 3 Week
- 4 Fortnight
- 5 Month
- 6 Quarter
- 7 Year

_mincome:

- 1 Farming
- 2 Trading
- 3 Remittance
- 4 Government transfer

_sincome:

- 1 Farming
- 2 Trading
- 3 Remittance
- 4 Government transfer

received_medicaltrt:

- 0 No
- 1 Yes

medicaltrt_center:

- 1 village extension agent
- 2 village clinic
- 3 nearby hospital

schoolmiss:

- 1 holiday

- 2 sickness
- 3 death in the family
- 4 working for money
- 5 fetching water
- 6 fetching fuel wood
- 7 caring siblings
- 8 school too far away
- 9 no money for school
- 10 refusal to go to school
- 11 due to shortage of food
- 12 no teachers/school not operating

relationship:

- 1 Head
- 2 Spouse
- 3 Son/Daughter
- 4 Grandchild
- 5 Father/Mother
- 6 Sister/Brother
- 7 Niece/Nephew
- 8 Uncle/Aunt
- 9 Grandparents
- 10 Other Relatives
- 11 Servant
- 12 Non Relatives

Multiple Response questions and Available transformed variables

In a number of questions in the first round survey respondents were able to provide multiple answers. In the conversion to the datafiles these became string variables containing the set of respondent answers. To enable easier analysis, a number of individual binary variables have been created from a number of these variables.

For example Tree_Spp provides information on all the tree species planted by a household. Associated with this variable are six binary variables indicating whether a particular species was planted by the household (see below).

Variable Name	Type	Description
Tree_Spp	String	Types of tree species planted by a household
Tree_Spp_1	yesno	Tree_Spp Acacia
Tree_Spp_2	yesno	Tree_Spp Eucalyptus
Tree_Spp_3	yesno	Tree_Spp Tid
Tree_Spp_4	yesno	Tree_Spp Shiwshiwe
Tree_Spp_5	yesno	Tree_Spp Sesbania
Tree_Spp_6	yesno	Tree_Spp Moringa

All binary variables of this type use the stem of the original string variable