

Read and trim files for original 800 HHs

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?

This file reads data from a list `data_read_in_a_list_with_baseline_patched.rds`, merge all non-roster files with admin-roster, and saves in `c:/data/GUK/analysis/save/ReadFilesMergeAdminRoster/`.

I Read files

I.1 Read from a list

In reading raw files, I added ID information (`./ID/ID_Updated_received_from_Abu.dta`) to all pages. I further added HH ID information from the admin file.

Define shock variables. `FloodInRd1` is reported flood damage in `code_1` in round 1.

Description of data:

- ad Administrative data: Up to [-24, 48] months after first loan disbursement. This file has not been used in `read_cleaned_data.rnw`.
- ros roster to condition the initial status prior to participation.
- sch Schooling panel with attrition. Aged 6-18 in `rd1`. `Enrolled={0,1}` is defined for children aged 6-18 in `rd1` by referencing to `currently_enrolled` and age information.
- ass Assets. Household assets (houses, durables) and productive assets (machines, tools).
- lvo Livestock holding.
- lab Labour incomes.
- far Farming revenues (no costs reported).
- con Household consumption. Food expenditure asks both bought and consumed volumes and prices. We impute consumption values by using median prices. All quantity is set to annualised quantity.
- shk Shocks. Merged with all other files.

I.2 Sample selection and treatment assignment

I.2.1 Merge admin and roster files

Number of meetings in recorded in admin file.

1999
48

Tabulation of arms with `ar.0`. There are 220 NAs which will be filled in with `RCT_village.dta` with `ar`, `arAll` in the next subsection.

traditional	large	large	grace	cow	<NA>
485	464		467	487	220

Some HHs in admin file are not found in roster. Drop from data.

[1]	9807042003	9807042011	9807042514	9807042706	9807042710	9807054106
[7]	9807054304	9807054520	9807064605	9807064607	9807064612	9807064617
[13]	9807064619	9807065207	9807065208	9807065212	9807065306	9807065307
[19]	9807065313	9807065315	9807065316	9807065319	9807075702	9807085904
[25]	9807085914	9807086106	9807086107	9807106513	9807106517	9807106518

[31]	9807126819	9807126820	9807127103	9807127105	9807127106	9807127108
[37]	9807137203	9807137204	9807137206	9807137217	9807137218	9808169816
[43]	9907065108	9907075402	9907075405	9907075406	9907075407	9907075410
[49]	9907075411	9907075413	9907075418	9907075419	9907075420	98081710308
[55]	98081710317	99070210905	99070210906	99070211813	99070310702	99070311402
[61]	99070311403	99070311405	99070311407	99070311408	99070311411	99070311412
[67]	99070311415	99070311416	99070311419	99070311501	99070311502	99070311505
[73]	99070311507	99070311508	99070311509	99070311511	99070311513	99070311517
[79]	99070311520	99070712701	99070712703	99070712704	99070712707	99070712708
[85]	99070712710	99070712713	99070712714	99070712716	99070712720	99071010811
[91]	99071010813	99071010814	99071010819	99081711206	99081711207	99081711208

[1]	9807042003	9807042011	9807042514	9807042706	9807042710	9807054106
[7]	9807054304	9807054520	9807064605	9807064607	9807064612	9807064617
[13]	9807064619	9807065207	9807065208	9807065212	9807065306	9807065307
[19]	9807065313	9807065315	9807065316	9807065319	9807075702	9807085904
[25]	9807085914	9807086106	9807086107	9807106513	9807106517	9807106518
[31]	9807126819	9807126820	9807127103	9807127105	9807127106	9807127108
[37]	9807137203	9807137204	9807137206	9807137217	9807137218	9808169816
[43]	9907065108	9907075402	9907075405	9907075406	9907075407	9907075410
[49]	9907075411	9907075413	9907075418	9907075419	9907075420	98081710308
[55]	98081710317	99070210905	99070210906	99070211813	99070310702	99070311402
[61]	99070311403	99070311405	99070311407	99070311408	99070311411	99070311412
[67]	99070311415	99070311416	99070311419	99070311501	99070311502	99070311505
[73]	99070311507	99070311508	99070311509	99070311511	99070311513	99070311517
[79]	99070311520	99070712701	99070712703	99070712704	99070712707	99070712708
[85]	99070712710	99070712713	99070712714	99070712716	99070712720	99071010811
[91]	99071010813	99071010814	99071010819	99081711206	99081711207	99081711208

This results in reduction in observations with 48 meetings.

1903
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Errors in creditstatus. Correct to Yes.

	hhid	EverSaved	TotalRepaid	Mstatus	Mship	creditstatus	DisDate1
1:	8169303	TRUE	16300	oldMember	oldMember	No	<NA>
2:	8169305	TRUE	16800	oldMember	oldMember	No	<NA>
3:	8169306	TRUE	16300	oldMember	oldMember	No	<NA>
4:	8169316	TRUE	16424	oldMember	oldMember	No	<NA>

Errors in Mstatus. Correct to oldMember. (No corresponding entry in arAll because it is data only for members.)

	hhid	CumRepaid	CumNetSaving	TradGroup	Date	DisDate1	creditstatus
1:	7137220	NA	NA	<NA>	<NA>	2013-11-01	Yes
2:	7137220	1750	0	planned	2014-10-01	2013-11-01	Yes
3:	7137220	4250	385	planned	2015-11-01	2013-11-01	Yes
	Mship	Mstatus					
1:	oldMember	iRejection					
2:	oldMember	iRejection					
3:	oldMember	iRejection					

There are 22 members (oldMember in Mstatus), 20 members (newGroup in Mstatus), 3 members (iReplacement in Mstatus) who did not borrow but only saved. This is identified by DisDate1 == NA & EverSaved & creditstatus == No (not NAs, because they are offered and declined).

	Arm	DisDate1	creditstatus	Mstatus
traditional:	45	Min. :NA	Yes: 0	gErosion : 0
large	: 0	1st Qu.:NA	No :45	gRejection : 0

```

large grace: 0      Median :NA                      iRejection   : 0
cow          : 0      Mean   :NA                      iReplacement: 3
                        3rd Qu.:NA                    newGroup     :20
                        Max.   :NA                      oldMember    :22
                        NA's   :45

Mship
oldMember      :22
newMember      :23
quitMembership: 0

```

There are also members who were offered membership but never took up. This is identified by `DisDate1 == NA & !EverSaved & !EverRepaid`.

DisDate1	EverSaved	EverRepaid	creditstatus	Mstatus
Min. :NA	Mode :logical	Mode :logical	Yes: 0	gErosion : 80
1st Qu.:NA	FALSE:379	FALSE:379	No :379	gRejection :140
Median :NA				iRejection :159
Mean :NA				iReplacement: 0
3rd Qu.:NA				newGroup : 0
Max. :NA				oldMember : 0
NA's :379				

Create `BorrowerStatus` to indicate these guys (`DisDate1 == NA & EverSaved & creditstatus == No`) as a pure saver. 379 entries with `DisDate1 == NA & !EverSaved & !EverRepaid` are people who quit so set as quit membership.

Mstatus	BorrowerStatus				
	borrower	pure	saver	quit	membership
gErosion	0	0	0	80	
gRejection	0	0	0	140	
iRejection	0	0	0	159	
iReplacement	112	3	0		
newGroup	388	20	0		
oldMember	1199	22	0		

In `arAll`, nonmembers (`gRejection`, `gErosion`) are not included.

Mstatus	Mship		
	oldMember	newMember	quitMembership
gErosion	0	0	0
gRejection	0	0	0
iRejection	0	0	159
iReplacement	0	115	0
newGroup	0	408	0
oldMember	1221	0	0

Need to merge in 2 steps: Merge admin (time-invariant) with roster with `hhid` as a key, then merge to admin (time-variant [e.g., `OtherRepaid`, `OtherNetSaving`, `OtherMisses`, `CumOtherMisses`, `CumRepaid`, `CumEffectiveRepayment`, `CumNetSaving`, `CumPlannedInstallment`, `CumLoanAmount`, `CumOtherRepaid`, `CumOtherNetSaving`, `CumMisses`, `CumRepaidRate`, `CumEffectiveRepaidRate`, `RMOtherNetSaving`, `RMOtherRepaid`]) with `hhid`, `Year`, `Month` as keys. This is because there are 8398 non-matching cases if we merge using `Year`, `Month` of `IntDate` in roster data and `Year`, `Month` of `Date` in admin data. This is inevitable because survey precedes the first meeting of borrowers: The admin data starts from 2013-05-01 while survey data starts from 2011-10-09 and rd 1 ends at 2013-10-12 for `oldMembers` with the median date 2012-10-20. Below gives `Year`, `Month` in roster data in rd 1 with no match in admin data.

2011-October	2011-November	2012-January	2012-October	2012-November
6	1	19	1146	327
2012-December	2013-September	2013-October	2014-January	2014-October
79	6	19	12	83

2014-November	2014-December	2015-November	2015-December	2016-January
43	36	111	40	26
2017-January	2017-February	2017-March	2017-April	NA-NA
44	97	17	17	21

After 2014, it is mostly drop out members who do not match with admin data because they do not attend the meeting.

```
table0(ar00[is.na(MonthsElapsed) & MemNum == 1 & Year ≥ 2014,
Mgroup])
```

continued	drop outs	new group	replacements
78	381	58	9

No additional match if matching only with Year.

	FALSE	TRUE
YearMonthMatch	2055	5958
YearMatch	2055	5958

In roster + admin (base: roster): Tabulate hhid observations by survey round and RArm before supplementing with AssignOriginal and VArm. Note: 220 observations with NA are also pointed in read_cleaned_data.rnw and are going to be dealt with in the next subsection.

	RArm					
survey	traditional	large	large	grace	cow	<NA>
1	485	464		467	487	220
2	472	445		447	446	173
3	472	448		452	453	168
4	465	444		447	444	114

I.2.2 Merge village level info

ar: ar.1 + vr (RCT_village.dta)

I use arm VArm from village level information. Tabulation of AssignOriginal against VArm shows complementarity so I can use one variable to fill in NAs in another.

	VArm					
AssignOriginal	traditional	large	large	grace	cow	<NA>
traditional		1244	0	0	0	650
large		0	1423	0	0	378
large grace		0	0	1437	0	376
cow		0	0	0	1631	199
<NA>		418	158	40	59	0

Tabulation of RArm after supplementing with AssignOriginal and VArm.

```
ar[is.na(RArm) & !is.na(AssignOriginal), RArm := AssignOriginal]
ar[is.na(RArm) & !is.na(VArm), RArm := VArm]
```

	RArm					
survey	traditional	large	large	grace	cow	
1	605	504		507	507	
2	585	485		447	466	
3	582	487		452	472	
4	540	483		447	444	

Below is what is supplemented from VArm of village level information to the 220 NAs.

BorrowerStatus	RArm				
	traditional	large	large	grace	cow
borrower	0	0		0	0
pure saver	0	0		0	0
quit membership	120	40		40	20

arA: arAll (admin data as base + roster) + vr (village randomisation)

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Tabulation of BorrowerStatus in arA at round 1.

	traditional	large	large	grace	cow	total
borrower	387	452		445	415	1699
pure saver	45	0		0	0	45
quit membership	53	12		22	72	159
total	485	464		467	487	1903

Tabulation of Mstatus in arA at round 1.

	traditional	large	large	grace	cow	total
gErosion	0	0		0	0	0
gRejection	0	0		0	0	0
iRejection	53	12		22	72	159
iReplacement	39	8		11	57	115
newGroup	166	96		96	50	408
oldMember	227	348		338	308	1221
total	485	464		467	487	1903

Tabulation of Mstatus in ar at round 1.

	traditional	large	large	grace	cow	total
gErosion	40	0		20	20	80
gRejection	80	40		20	0	140
iRejection	53	12		22	72	159
iReplacement	39	8		11	57	115
newGroup	166	96		96	50	408
oldMember	227	348		338	308	1221
total	605	504		507	507	2123

adw3 idfu[adw2]: admin data adw2 + idfu (arm information)

ad0 Selected columns of adw3.

Base: roster.

ar.0 adbase[ros]: ros (33223, 37) + invariant portion of admin data ad0 (1999, 8).

ar.1 adrest[ar.0]: ar.0 (33223, 43)+ variable portion of admin data ad0 (95952, 42).

ar vr[ar.1]: ar.1 (33223, 85) + vr (RCT_village.dta) (80, 4), resulting in (33223, 89). Number of individuals: 2123.

Base: admin. This has a smaller number of individuals because admin data do not include individuals who left the group.

ar.00 ros.00W[ad0]: ad0 (95952, 49) + ros.00W (survey round info) (2123, 5).

arAll ros.0[ar.00]: ar.00 (admin data with survey round info) (95952, 50) + ros.0 (roster only with first observed round) (2123, 11).

arA vr[arAll]: arAll (admin data as base + roster) (91344, 65) + vr (village randomisation) (80, 4), resulting in (91344, 70). Number of individuals: 1903.

I.3 Merge admin-roster with other files

I.3.1 Choosing sample in admin-roster

In roster + admin 2: Keep if Mstatus includes strings old, iRej, gEro, gRej, & TradGroup does not include strings tw (relaxing DisDate1 is before 2015-01-01). [This the data used in this note.](#) This also shows a lower attrition rate for large arm.

	traditional	large	large	grace	cow	total
1	400	400		400	400	1600
2	327	384		342	366	1419
3	324	386		348	366	1424
4	287	382		343	342	1354

Create o1600 to indicate the original 1600 HHs. Tabulation of total observations in roster by o1600 and survey.

	survey			
o1600	1	2	3	4
0	2101	2510	2543	2457
1	6532	5817	5843	5420

Tabulation of total observations in roster by o1600 and survey after restricting to 1 obs per HH.

	survey			
o1600	1	2	3	4
0	523	611	616	607
1	1600	1372	1377	1307

Tabulation for arA. It has survey == 5 which are meetings after the rd 4 interview. arA has fewer observations per meeting than ar when only using 1 obs per rd,

	traditional	large	large	grace	cow	total
1	12	21		30	49	112
2	167	343		342	346	1198
3	165	341		338	335	1179
4	165	343		342	342	1192
5	128	265		235	269	897

but more observations per round because there are multiple meetings per round.

	traditional	large	large	grace	cow	total
1	445	845		967	1886	4143
2	3054	6197		6221	6156	21628
3	2220	4650		4607	4596	16073
4	2379	5074		5073	5095	17621
5	302	514		412	507	1735

Pick 800 o800 by referring to JDS data.

Tabulation of o800 for ar.

	traditional	large	large	grace	cow	total
1	200	200		200	200	800
2	190	191		172	190	743
3	188	193		174	190	745
4	168	192		171	177	708

Tabulation of o800 for arA.

	traditional	large	large	grace	cow	total
1	9	10		14	18	51
2	134	171		172	180	657
3	133	170		169	175	647
4	132	173		171	177	653
5	102	133		120	138	493

	traditional	large	large	grace	cow	total
gErosion		0	0		0	0
gRejection		0	0		0	0
iRejection		31	9		13	90
iReplacement		0	0		0	0
newGroup		0	0		0	0
oldMember		109	171		167	600

arA is used in saving and repayment regressions.

In ar, there are 114 cases of group rejections in GroupStatus classified as individual rejections in Mstatus. Overwrite Mstatus with GroupStatus in these cases, which results in the below:

	GroupStatus		
Mstatus	accepted	erosion	group rejection
gErosion	0	80	0
gRejection	0	0	140
iRejection	159	0	0
iReplacement	115	0	0
newGroup	408	0	0
oldMember	1221	0	0

	traditional	large	large	grace	cow
accepted	485	464		467	487
erosion	40	0		20	20
group rejection	80	40		20	0
total	605	504		507	507

In ar, as one can see below, gRejection is more frequent in traditional and large, while there is none in cow. traditional, cow have more frequent iRejection. So traditional was disliked both at group and individual levels, large was disliked as a group, cow was disliked at an individual level, and large grace were well received at both group and individual levels. This indicates attractiveness of a grace period at least at the group level, and a large cash form (over small cash or in-kind) at the individual level.

	traditional	large	large	grace	cow
gErosion	40	0		20	20
gRejection	80	40		20	0
iRejection	53	12		22	72
iReplacement	39	8		11	57
newGroup	166	96		96	50
oldMember	227	348		338	308
total	605	504		507	507

	traditional	large	large	grace	cow
gErosion	0.07	0.00		0.04	0.04
gRejection	0.13	0.08		0.04	0.00
iRejection	0.09	0.02		0.04	0.14
iReplacement	0.06	0.02		0.02	0.11
newGroup	0.27	0.19		0.19	0.10
oldMember	0.38	0.69		0.67	0.61
total	1.00	1.00		1.00	1.00

In ar, for o800 we have:

	traditional	large	large	grace	cow
gErosion	20	0		10	10
gRejection	40	20		10	0
iRejection	31	9		13	37
iReplacement	0	0		0	0
newGroup	0	0		0	0
oldMember	109	171		167	153
total	200	200		200	200

Contrast it with arA:

```
Error: <text>:1:15: unexpected ';'
1: arA[, tee := 1;
      ^
```

Save roster-admin data to c:/data/GUK/analysis/save/ReadFilesMergeAdminRoster/.

```
saveRDS(ar, paste0(pathsaveHere, "RosterAdminData.rds"))
saveRDS(arA, paste0(pathsaveHere, "AllMeetingsRosterAdminData.rds"))
fwrite(ar, paste0(pathsaveHere, "RosterAdminData.prn"), sep = "\t", quote = F)
fwrite(arA, paste0(pathsaveHere, "AllMeetingsRosterAdminData.prn"), sep = "\t", quote = F)
```

Schooling.

I.3.2 Attach variables from admin-roster to other files

Attach RArm, Arm, TradGroup, Mem, ObPattern, AttritIn, o1600, o800, Mstatus, Borrower-Status, creditstatus, povertystatus, RMvalue.repay, RMvalue.NetSaving, RMOtherNetSaving, RMOtherRepaid, HHsize, HeadLiteracy, IntDate, DisDate1 from ar.

```
vartoattach <- c("RArm", "Arm", "TradGroup", "Mem",
  "ObPattern", "AttritIn", "o1600", "o800",
  "Mstatus", "BorrowerStatus",
  "creditstatus", "povertystatus", "RMvalue.repay",
  "RMvalue.NetSaving", "RMOtherNetSaving", "RMOtherRepaid",
  "HHsize", "HeadLiteracy", "IntDate", "DisDate1")
dfiles <- c("ass", "s1", "lvo", "lvp", "lab", "far", "con", "shk")
for (j in 1:length(dfiles)) {
  dd <- get(dfiles[j])
  dd[, groupid := as.integer(as.numeric(as.character(gid)))]
  dd[, gid := NULL]
  dd[, Year := as.numeric(format(as.Date(IntDate), "%Y"))]
  dd[, Month := as.character(format(as.Date(IntDate), "%B"))]
  dd[Year <= 2010, Year := Year + 10]
  # drop all variables in each page before copying from ar0
  dd[, (vartoattach) := NULL]
  setorder(dd, groupid, hhid, survey, Year, Month)
  setkey(dd, groupid, hhid, survey)
  if (j < length(dfiles)) dd <- ar0[dd]
  assign(dfiles[j], dd)
}
```

Check number of HHs in assets by o1600:

```
table(ass[, .(creditstatus, survey, o1600)])
```

```
, , o1600 = 0
      survey
```

creditstatus	1	2	3	4
Yes	478	588	593	586
No	23	23	23	21

```
, , o1600 = 1
```

	survey			
creditstatus	1	2	3	4
Yes	1196	1051	1058	1043
No	399	319	319	264

```
tb <- table(ass[o800 == 1, .(survey, creditstatus)])
cbind(tb, total = apply(tb, 1, sum))
```

	Yes	No	total
1	597	199	796
2	584	158	742
3	586	159	745
4	578	130	708

```
#table0(ass[o1600 == 0L, .(creditstatus, survey)])
```

Check number of HHs in schooling by o1600:

```
table(s1[, .(Schooling, survey, o1600)])
```

```
, , o1600 = 0
```

	survey			
Schooling	1	2	3	4
primary0512	457	427	361	202
junior1315	114	129	140	204
high1618	80	94	93	111

```
, , o1600 = 1
```

	survey			
Schooling	1	2	3	4
primary0512	1389	911	659	322
junior1315	326	279	427	499
high1618	216	198	179	225

```
tb <- table(s1[o800 == 1, .(survey, Schooling)])
cbind(tb, total = apply(tb, 1, sum))
```

	primary0512	junior1315	high1618	total
1	695	159	110	964
2	483	147	105	735
3	344	230	90	664
4	165	264	115	544

Check number of o800 HHs in ar:

```
ar[, tee := as.integer(1:N), by = .(hhid, survey)]
tb <- table0(ar[tee == 1 & o800 == 1L, .(survey, RArm)])
cbind(tb, total = apply(tb, 1, sum))
```

	traditional	large	large	grace	cow	total
1	200	200		200	200	800
2	190	191		172	190	743
3	188	193		174	190	745
4	168	192		171	177	708

Check number of o800 HHs in arA:

```
arA[, tee := as.integer(1:N), by = .(hhid, survey)]
tb <- table0(arA[tee == 1 & o800 == 1L, .(survey, RArm)])
cbind(tb, total = apply(tb, 1, sum))
```

	traditional	large	large	grace	cow	total
1	9	10		14	18	51
2	134	171		172	180	657
3	133	170		169	175	647
4	132	173		171	177	653
5	102	133		120	138	493

Number of observations differ between ar and arA because the latter does not include rejecters.

	traditional	large	large	grace	cow	traditional	large	large	grace
gErosion	20	0		10	10	0	0		0
gRejection	40	20		10	0	0	0		0
iRejection	31	9		13	37	31	9		13
iReplacement	0	0		0	0	0	0		0
newGroup	0	0		0	0	0	0		0
oldMember	109	171		167	153	109	171		167
	cow								
gErosion	0								
gRejection	0								
iRejection	37								
iReplacement	0								
newGroup	0								
oldMember	153								

Original 800 households in arA (members only).

```
[1] TRUE
```

	EverRepaid
Mstatus	TRUE
gErosion	0
gRejection	0
iRejection	0
iReplacement	0
newGroup	0
oldMember	600

What is relevant in estimation is observations by LoanYear, total of 600.

	RArm
LoanYear	traditional large large grace cow
1	109 171 167 153
2	109 171 167 153
3	109 171 167 153
4	109 171 167 153

If we restrict to planned in TradGroup, number of observation becomes 576.

	RArm
LoanYear	traditional large large grace cow
1	85 171 167 153
2	85 171 167 153
3	85 171 167 153
4	85 171 167 153

ObPattern in original 800.

	RArm				
ObPattern	traditional	large	large	grace	cow
0111	0	2		3	1
1000	1	5		1	1
1010	0	1		0	0
1011	0	0		0	0
1100	0	1		3	2
1110	1	0		3	3
1111	107	162		157	146

BorrowerStatus pattern in original 800.

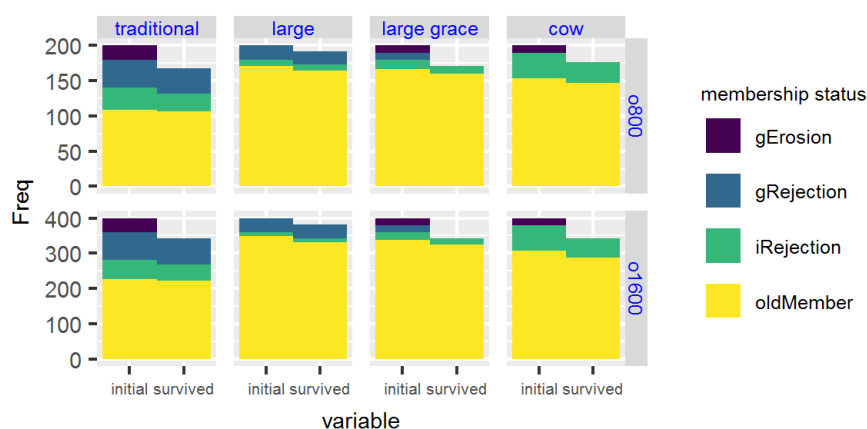
	RArm				
BorrowerStatus	traditional	large	large	grace	cow
borrower		109	171		167 153
pure saver		0	0		0 0
quit membership		0	0		0 0

BorrowerStatus pattern in original 800 with only planned in TradGroup.

	RArm				
BorrowerStatus	traditional	large	large	grace	cow
borrower		85	171		167 153
pure saver		0	0		0 0
quit membership		0	0		0 0

Below tabulates attrition pattern in ar for 800 and 1600 households.

FIGURE 1: ATTRITION AND MEMBERSHIP STATUS AMONG ORIGINAL 800 AND 1600 HOUSEHOLDS



Source: Survey data.

Note: Top panel: Membership status and respective non-attrition in o800. Bottom panel: Membership status and respective non-attrition in o1600.

Save all data in c:/data/GUK/analysis/save/ReadFilesMergeAdminRoster/.

```
fwrite(s1, paste0(pathsaveHere, "RosterAdminSchoolingData.prn"), sep = "\t", quote = F)
fwrite(ass, paste0(pathsaveHere, "AssetAdminData.prn"), sep = "\t", quote = F)
fwrite(lvo, paste0(pathsaveHere, "LivestockAdminData.prn"), sep = "\t", quote = F)
fwrite(lvp, paste0(pathsaveHere, "LivestockProductsAdminData.prn"), sep = "\t", quote = F)
fwrite(lab, paste0(pathsaveHere, "LabourIncomeAdminData.prn"), sep = "\t", quote = F)
fwrite(far, paste0(pathsaveHere, "FarmRevenueAdminData.prn"), sep = "\t", quote = F)
fwrite(con, paste0(pathsaveHere, "ConsumptionAdminData.prn"), sep = "\t", quote = F)
fwrite(shk, paste0(pathsaveHere, "Shocks.prn"), sep = "\t", quote = F)
```