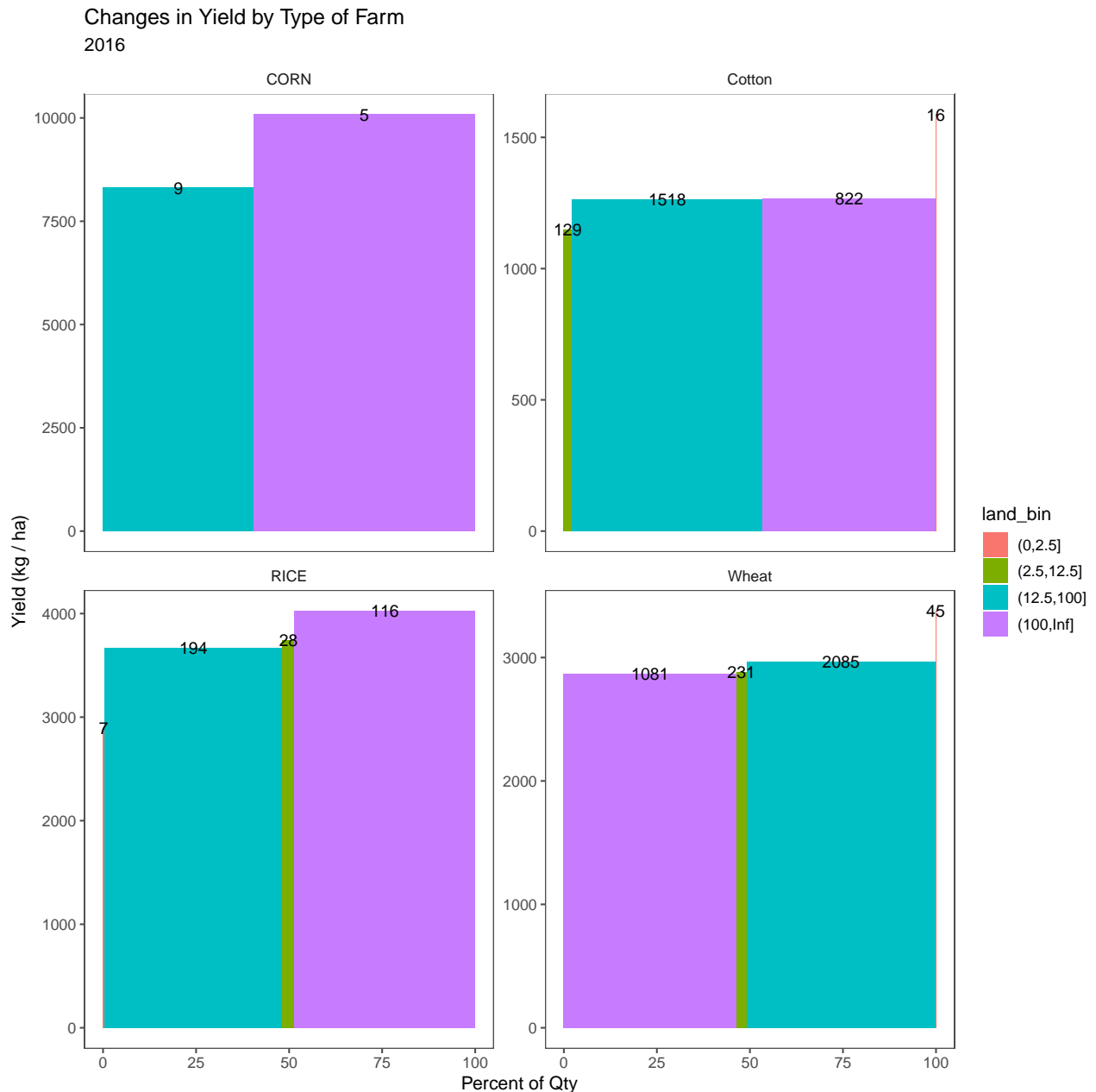

title: "PEOP Data"

output: pdf_document: includes: in_header: "preamble.tex" html_document: default —

We have a questionnaire and are looking at basic info (district, tehsil, psu, settlement name, neighborhood and hh id), as well as their assets, consumption, and crop sales.

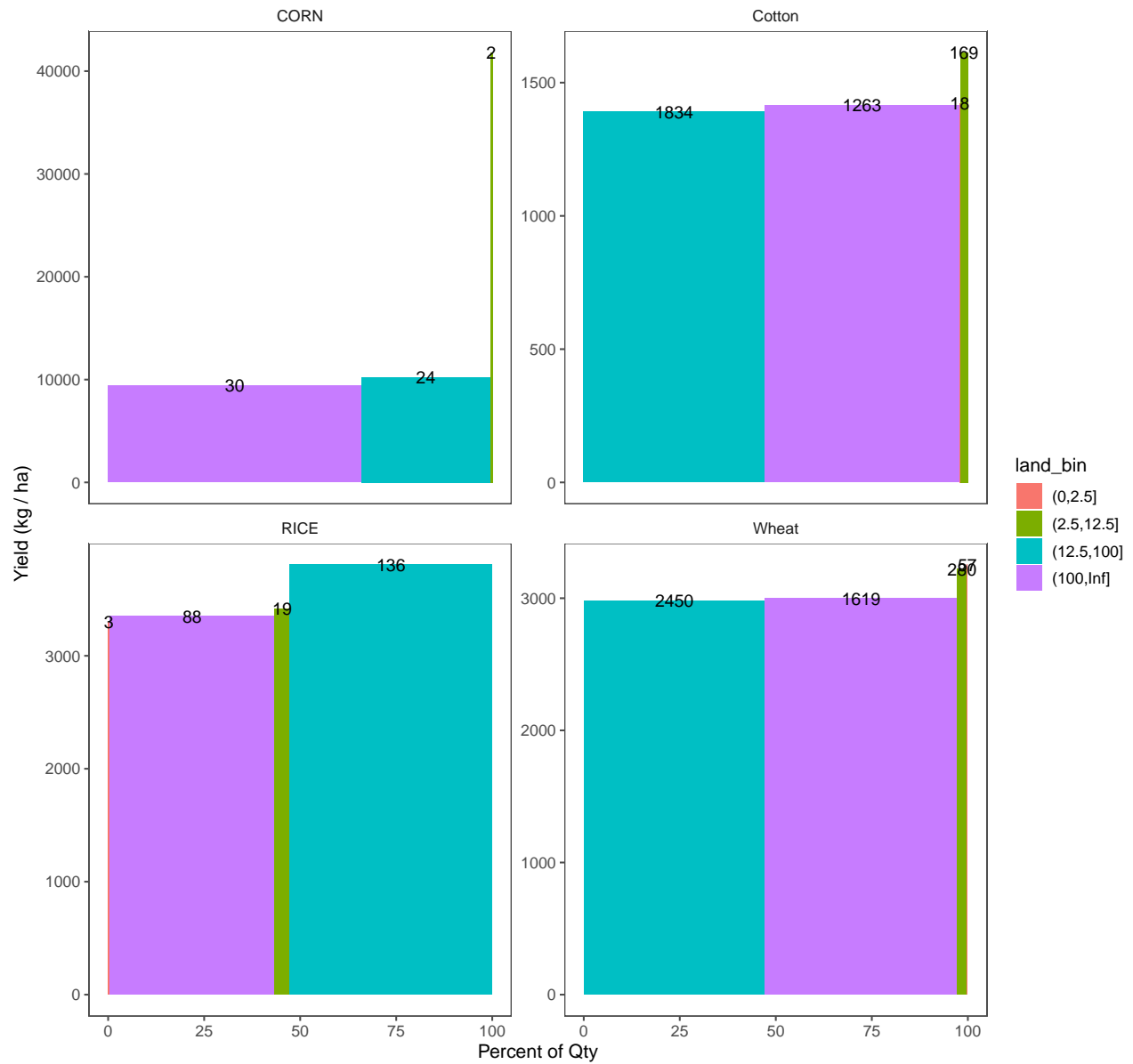
Resisting the other datasets for now.



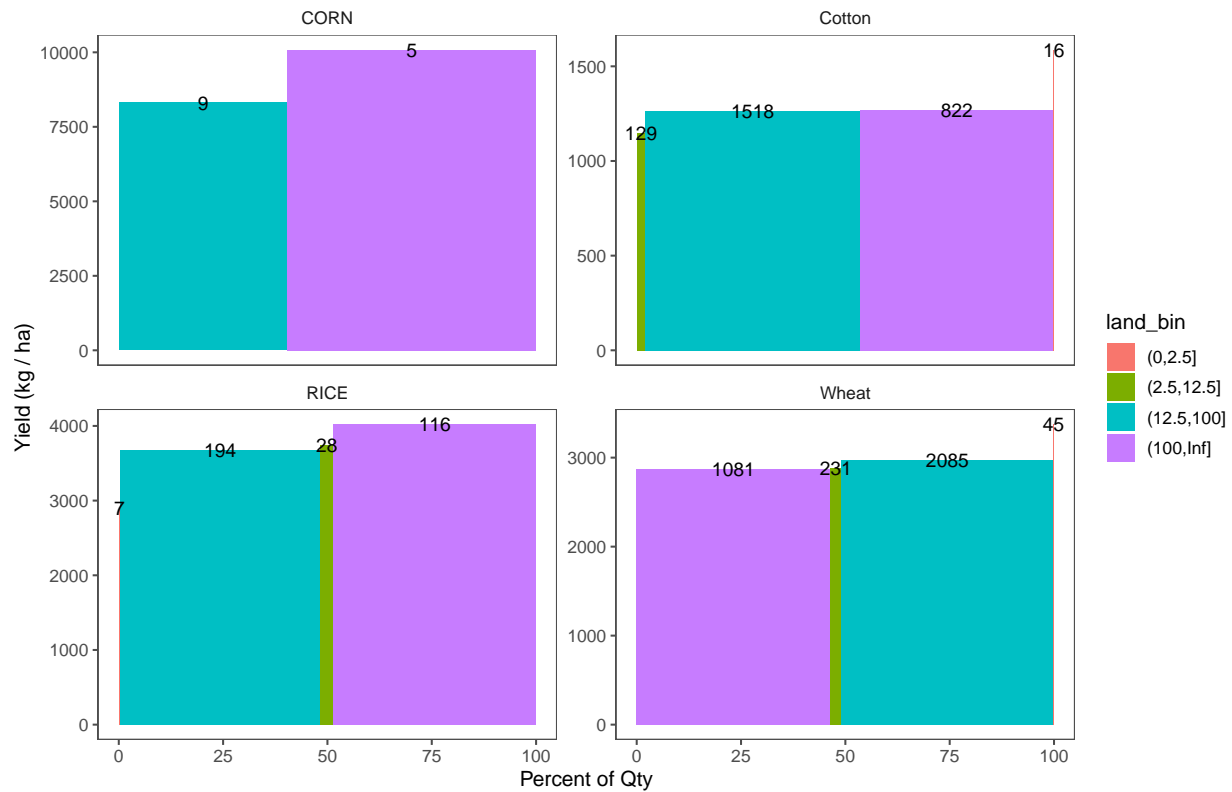
Lets recreate for vegetables

Lets look at 2019 data

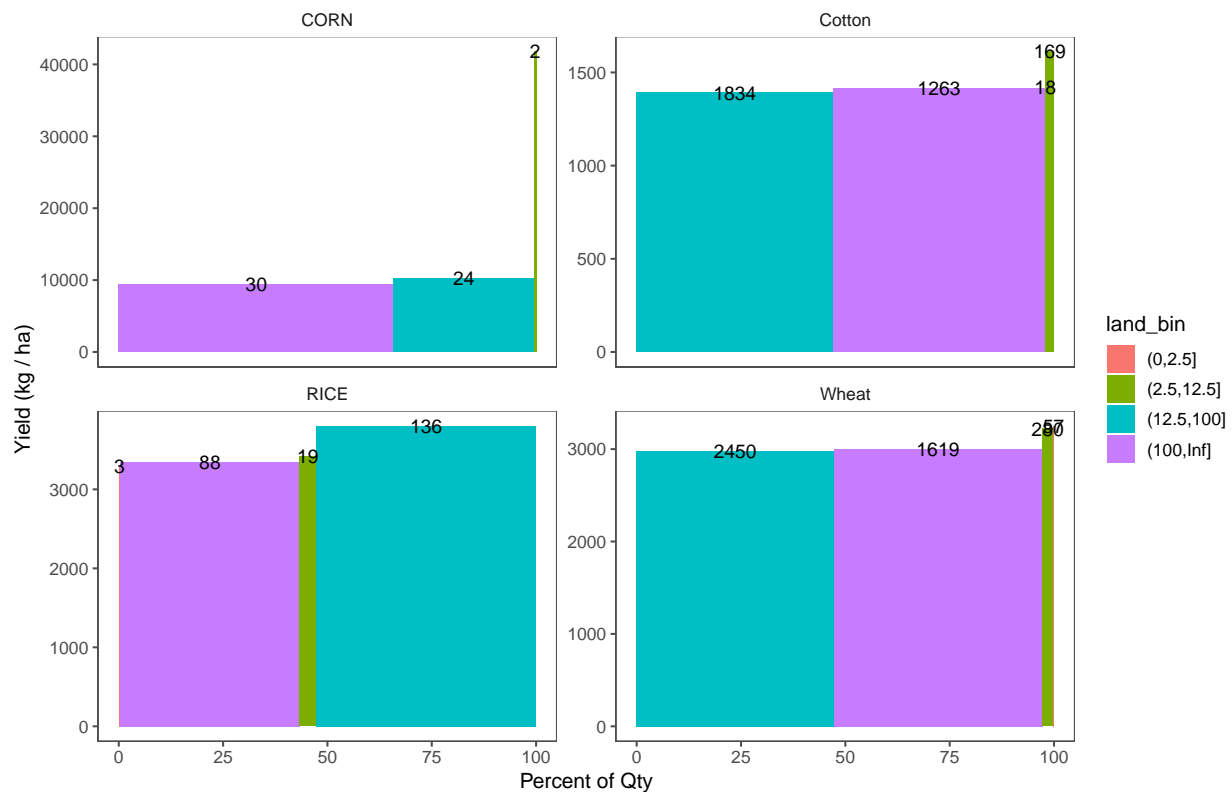
Changes in Yield by Type of Farm 2019



Changes in Yield by Type of Farm
2016



Changes in Yield by Type of Farm
2019



Lets focus on 2019 and things that can tell us about where productivity differences come from.

```
## # A tibble: 6 x 2
##   soil_qual      c
##   <fct>      <int>
## 1 Sandy      596
## 2 Moderate  1781
## 3 Loam       539
## 4 Clay loam  624
## 5 Clay      725
## 6 Other (Specify)  51
```

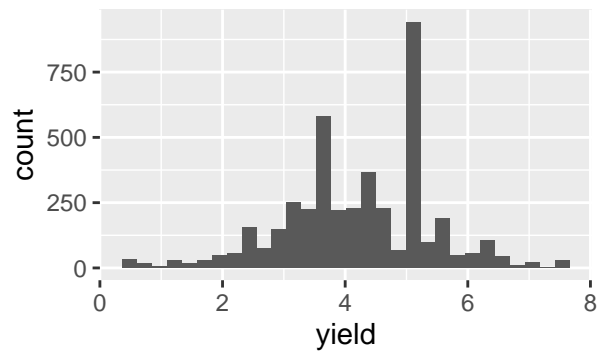
Table 1:

	Dependent variable:			
	yield			
	Wheat (1)	Cotton (2)	Rice (3)	Corn (4)
land_worked_acre	0.00002 (0.0003)	-0.001* (0.0003)	0.001 (0.002)	-0.005 (0.112)
land_cultvd	-0.003*** (0.0004)	-0.001*** (0.0004)	-0.015** (0.007)	-0.388 (0.493)
fmly_wrkr_num	0.043*** (0.013)	0.018 (0.013)	-0.104 (0.089)	-4.534 (3.717)
hired_wrkr_num	0.011*** (0.002)	0.001 (0.002)	0.012 (0.011)	0.531 (0.527)
seed_acreB	-0.002 (0.002)	0.021*** (0.005)	-0.006 (0.013)	
seed_acreC	-0.004** (0.002)	-0.002 (0.005)	0.004 (0.005)	-0.848 (0.553)
kg_fert_acrea	0.001 (0.001)	0.003*** (0.001)	-0.007* (0.004)	-0.302 (0.200)
kg_fert_acreb	-0.0004 (0.0005)	0.003*** (0.0004)	-0.002 (0.002)	-0.051 (0.098)
kg_fert_acrec	0.0003 (0.001)	0.001 (0.001)	0.008** (0.004)	-0.057 (0.249)
rel_area_tractor	0.018 (0.085)	0.060 (0.058)	0.157 (2.798)	6.135 (52.303)
rel_area_landlevel	-0.066 (0.045)	-0.343*** (0.049)	0.170 (0.268)	-20.231 (13.922)
rel_area_harvester	0.396** (0.159)	0.370 (0.255)	0.385 (0.250)	-28.373 (34.801)
D_orgnc_mnreNo	0.030 (0.038)	0.093** (0.042)	-0.513** (0.233)	-7.879 (13.981)
D_micro_ntrntsNo	-0.172** (0.076)	-0.045 (0.072)	-0.326 (0.253)	0.201 (14.078)
irr_methdFurrow	0.177 (0.229)	0.246*** (0.044)	-0.429 (0.651)	-5.341 (13.874)
irr_methdBed and furrow	0.184 (0.126)	0.295*** (0.062)	0.030 (0.647)	-34.534* (18.144)
irr_methdOther (Specify)	-1.827 (1.130)			
soil_qualModerate	0.224*** (0.055)	0.231*** (0.063)	0.353 (0.497)	5.243 (17.036)
soil_qualLoam	0.249*** (0.068)	0.250*** (0.078)	0.276 (0.558)	-4.141 (19.054)
soil_qualClay loam	0.238*** (0.067)	0.350*** (0.077)	0.663 (0.516)	31.023 (21.291)
soil_qualClay	0.446*** (0.065)	0.452*** (0.074)	0.819 (0.533)	15.700 (19.935)
soil_qualOther (Specify)	0.049 (0.171)	0.250 (0.192)	-0.955 (0.989)	
soil_fert_rank	0.059*** (0.013)	0.075*** (0.014)	0.077 (0.076)	2.532 (4.352)
land_steep_typeSlight slope	-0.002 (0.061)	0.038 (0.067)	0.380 (0.406)	-24.432 (16.134)
land_steep_typeModerate slop	-0.227** (0.089)	-0.120 (0.092)	0.827 (0.711)	-30.521 (39.395)
land_steep_typeSteep Slope	0.196 (0.192)	0.056 (0.233)	-0.199 (1.465)	-16.714 (28.351)
access_canal_waterNo	0.172*** (0.041)	0.436*** (0.047)	0.400 (0.304)	27.397** (12.454)
access_tubewellDo not own a tubewell but have access to tubewell water	-0.139*** (0.039)	0.085* (0.044)	-0.034 (0.222)	8.366 (12.555)
access_tubewellNeither own nor have access to a tubewell water	-0.177* (0.105)	0.077 (0.106)	-0.761 (0.590)	
land_suffer_waterlogNo	-0.023 (0.062)	0.175** (0.075)	-0.117 (0.284)	-15.003 (37.360)
land_suffer_salinityNo	0.213*** (0.060)	0.107 (0.072)	-0.497* (0.295)	14.345 (37.960)
land_suffer_erosionMild Erosion	0.037 (0.045)	0.135*** (0.049)	0.356 (0.313)	-11.232 (15.041)
land_suffer_erosionSevere Erosion	-0.018 (0.114)	-0.089 (0.156)	-0.607 (0.710)	15.343 (37.494)
D_more_fert_qtyNo	0.116*** (0.039)	0.150*** (0.043)	-0.070 (0.218)	-5.356 (11.811)
soil_cmprd_othersSame	-0.229*** (0.064)	-0.277*** (0.069)	0.319 (0.373)	-15.569 (34.388)
soil_cmprd_othersWorse	-0.532*** (0.099)	-0.401*** (0.113)	0.128 (0.669)	-8.605 (39.587)
Constant	3.428*** (0.234)	0.520*** (0.181)	5.040* (2.873)	72.132 (77.538)
Observations	4,314	3,150	227	49
R ²	0.076	0.173	0.211	0.731
Adjusted R ²	0.068	0.164	0.067	0.193
Residual Std. Error	1.127 (df = 4277)	1.041 (df = 3114)	1.416 (df = 191)	26.010 (df = 16)

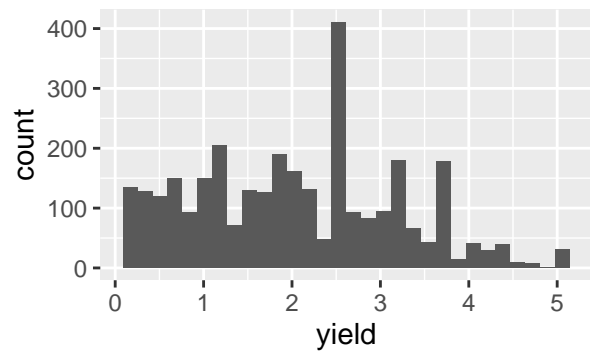
Note:

*p<0.1; **p<0.05; ***p<0.01

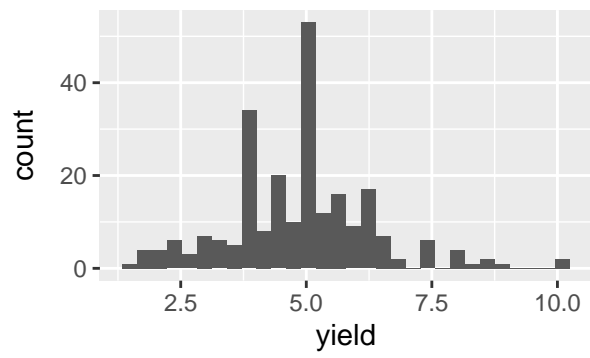
Wheat Yield Distribution



Cotton Yield Distribution



Rice Yield Distribution



Corn Yield Distribution

