Summary listing from Jamaica

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What the data looks like

```
#set wd
if(Sys.info()[5] == "x86_64"){
  setwd("~/Dropbox/CROP/Jamaica/cropJam")
  data.dir <- "~/Dropbox/CROP/Jamaica/data_area/"
} else {
  setwd("C:/Users/Rahija/Dropbox/CROP/Jamaica/cropJam")
  data.dir <- "C:/Users/Rahija/Dropbox/CROP/Jamaica/data_area/"
}



#grab list of files
data.files <- list.files(data.dir, pattern = ".tab")


#read in files in order, and merge
farmer <- read.delim(paste0(data.dir,data.files[[1]]),
                     header = TRUE,
                     sep = "\t")

colnames(farmer)[1] <- "farm_id"



parcel <- read.delim(paste0(data.dir,data.files[[7]]),
                     header = TRUE,
                     sep = "\t")
colnames(parcel)[length(colnames(parcel))] <- "farm_id"
```

```r
colnames(parcel)[1] <- "parcel_id"

master <- merge(farmer, parcel, by = "farm_id")



crop <- read.delim(paste0(data.dir,data.files[[2]]),
                   header = TRUE,
                   sep = "\t")

colnames(crop)[1] <- "crop_id"
colnames(crop)[length(colnames(crop))] <- "farm_id"
colnames(crop)[length(colnames(crop))-1] <- "parcel_id"

master <- merge(master, crop, by = c("farm_id", "parcel_id"))


master <- arrange(master, farm_id, parcel_id, crop_id)

#keep only relevant column to filter harvest dates, and count parcels
master <- select(master,
                 Farmer_name_3,
                 farm_id,
                 parcel_id,
                 Parcel_ID_3,
                 crop_id,
                 harvest_date_current_3
                 )
#show what the data looks like
knitr::kable(head(master[], n = 10))
```

Farmer_name_3	farm_id	parcel_id	Parcel_ID_3	crop_id	harvest_date_current_3
Sonia Robinson	006a0dc2894d4f2c9397f08aa5b5cb94	0	behind her son's house	3	11/6/2016 12:00:00 AM
Sonia Robinson	006a0dc2894d4f2c9397f08aa5b5cb94	0	behind her son's house	4	2/6/2017 12:00:00 AM
Sonia Robinson	006a0dc2894d4f2c9397f08aa5b5cb94	1	before you cross the spring	4	11/6/2016 12:00:00 AM
Sonia Robinson	006a0dc2894d4f2c9397f08aa5b5cb94	2	after you cross the river	3	7/6/2016 12:00:00 AM
Sonia Robinson	006a0dc2894d4f2c9397f08aa5b5cb94	3	on the right hand side behind a board house	3	8/5/2016 12:00:00 AM
Conroy Grandison	00eb1cd30dc446a69be47586390338be	0	opposite Johnson house	3	4/27/2016 12:00:00 AM

Farmer_name_3	farm_id	parcel_id	Parcel_ID_3	crop_id	harvest_date_current_3
Clifford Jackson #2	03abd292c4b7448d9dbce295fb2db1e3	0	away from mango tree	3	5/6/2016 12:00:00 AM
Clifford Jackson #2	03abd292c4b7448d9dbce295fb2db1e3	1	adjacent to blue and white house	3	10/22/2016 12:00:00 AM
Cecile Lemonius	040bdc633e9442fab018ce353ddb07e1	0	Oppisite Babu Ferguson poperty	3	7/13/2016 12:00:00 AM
Winston Ennis	043b164deab4443c86812a79def6b428	0	Beside Jeffrey Ennis	1	6/8/2016 12:00:00 AM

After filtering for the harvest dates that lie in June and July, we should be able to just count the unique number of parcel and farm ids.

```
#convert harvest date to computer readable for filtering
master$harvest_date_current_3 <- as.Date(master$harvest_date_current_3, format = "%m/%d/%Y %H:%M:%S")


temp <- subset(master, harvest_date_current_3 > as.Date("2016-06-01"))

temp <- subset(temp, harvest_date_current_3 < as.Date("2016-08-01"))

to.count <- select(temp, farm_id, parcel_id)


#count unique rows
nrow(unique(to.count))
```

```
## [1] 99
```

To me, I count 99 unique parcels that harvest from June to July.