Cook East Hand Harvest Yields | Data Exploration

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Set WD, define constants

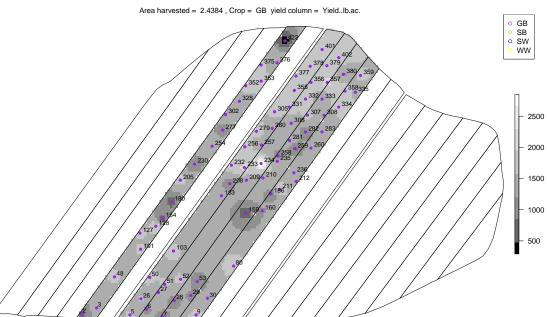
```
library(xlsx)
setwd("C:\\Dev\\Projects\\CookEastPlantHandHarvest\\R\\dataExplorationLevel1")
source("graphing-funcs.R")
# Load input polygons
strips <- readOGR("Input/CookEastStrips", "Field_Plan_Final")</pre>
## OGR data source with driver: ESRI Shapefile
## Source: "Input/CookEastStrips", layer: "Field Plan Final"
## with 25 features
## It has 7 fields
boundary <- readOGR("Input/CookEastArea", "CafCookEastArea")</pre>
## OGR data source with driver: ESRI Shapefile
## Source: "Input/CookEastArea", layer: "CafCookEastArea"
## with 1 features
## It has 5 fields
# Original strips polygon of Cook East has area with no georef points (and no yield), so remove them
georef.only <- raster::intersect(boundary, strips)</pre>
# Read yield data
yields <- read.xlsx("Input/L1_Aggregated2013-2016_20180417.xlsx", "CalculatedYield", colClasses = c("nu
```

2013

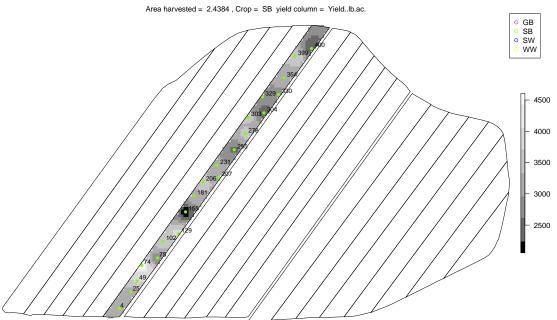
```
# Read input data and print summary
harvest.year <- 2013
d2013 <- yields[yields$HarvestYear == harvest.year,]
#summary(d2013)</pre>
```

GB

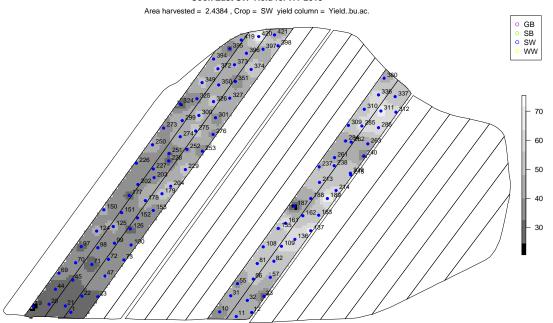
Cook East GB Yield for HY 2013



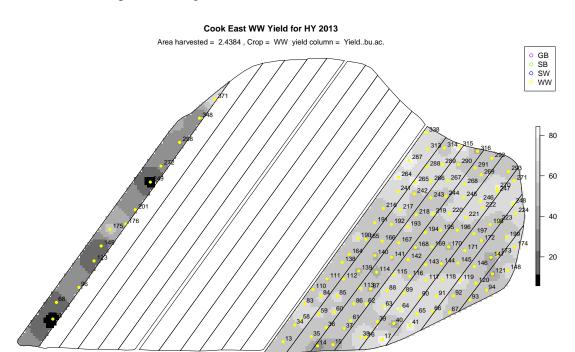








$\mathbf{w}\mathbf{w}$



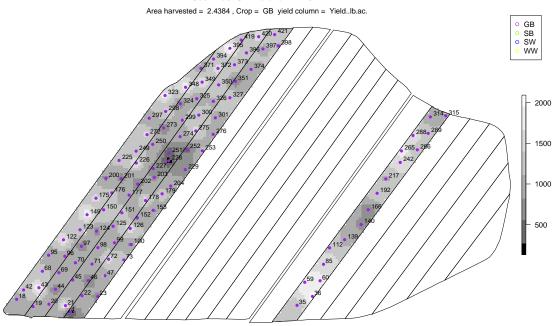
2014

```
# Read input data and print summary
harvest.year <- 2014
d2014 <- yields[yields$HarvestYear == harvest.year,]</pre>
```

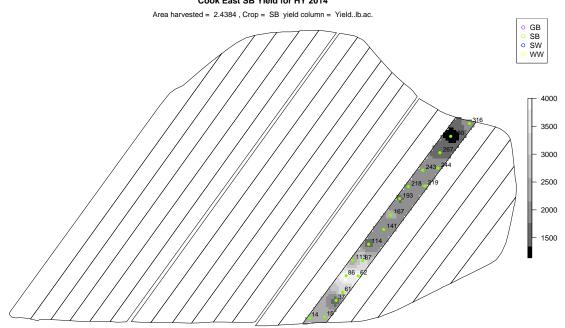
GB

[inverse distance weighted interpolation]

Cook East GB Yield for HY 2014



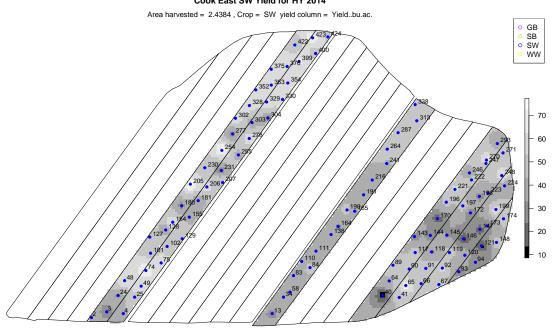
Cook East SB Yield for HY 2014



\mathbf{SW}

[inverse distance weighted interpolation]

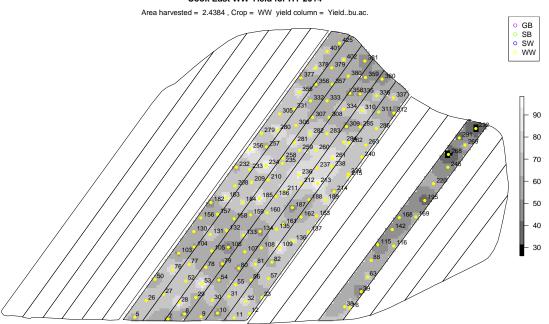
Cook East SW Yield for HY 2014



$\mathbf{w}\mathbf{w}$

[inverse distance weighted interpolation]

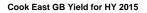
Cook East WW Yield for HY 2014

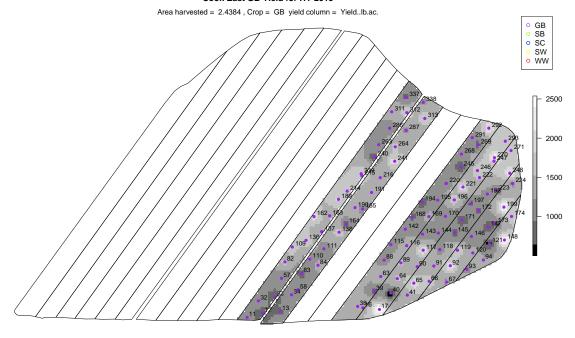


2015

```
# Read input data and print summary
harvest.year <- 2015
d2015 <- yields[yields$HarvestYear == harvest.year,]
#summary(d2015)</pre>
```

GB

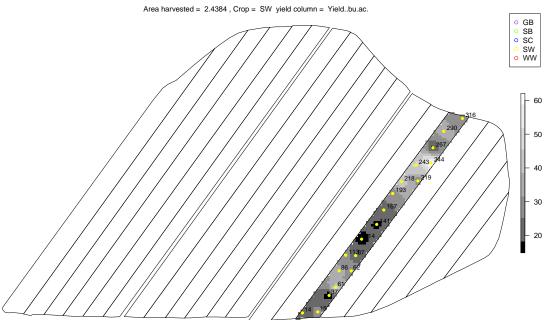






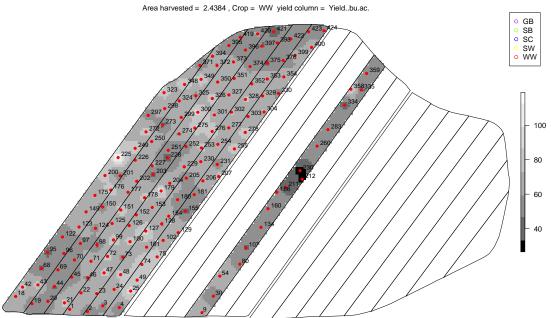
\mathbf{SW}

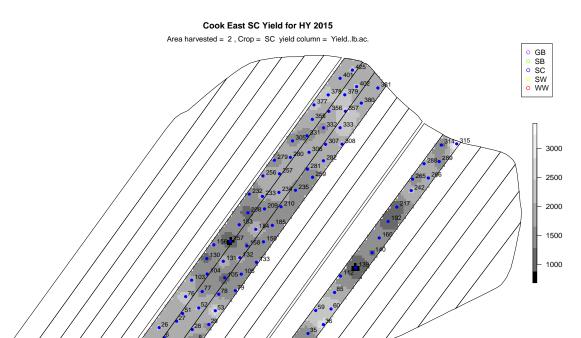




$\mathbf{w}\mathbf{w}$







2016

```
# Read input data and print summary
harvest.year <- 2016
d2016 <- yields[yields$HarvestYear == harvest.year,]
#summary(d2016)</pre>
```

$\mathbf{W}\mathbf{W}$

