

Assignment1

Kandidat 33,

Innledning

her har vi....

Data

I dette kapitlet skal vi se på dataene vi har og hvilke variabler vi blir å bruke.

```
# kryssjekker dataene og variablene vi har samt om hvilken struktur de har
#head(pigdata)
#str(pigdata)

#trenger å endre navnene slik jeg selv henger med i videre bruk

pigdata <- pigdata %>% rename(InputFertilizer = x1,
                               InputFeed = x2,
                               InputLand = x3,
                               InputLabour = x4,
                               InputMachinery = x5,
                               InputOther = x6,
                               OutputCrop = y2,
                               OutputPig = y4,
                               PriceFertilizer = w1,
                               PriceFeed = w2,
                               PriceLand = w3,
                               PriceLabour = w4,
                               PriceMachinery = w5,
                               PriceOther = w6,
                               PriceCrop = p2,
                               PricePig = p4,
                               TotalCost = cost,
                               TotalRevenue = rev)

# Beregner statistikken
summary(pigdata)
```

firm	InputFertilizer	InputFeed	InputLand
Min. : 2.0	Min. : 48.07	Min. : 4042	Min. : 4.5
1st Qu.:100.8	1st Qu.: 1416.98	1st Qu.:17602	1st Qu.:109.0
Median :201.5	Median : 2085.83	Median :26053	Median :161.0
Mean :204.5	Mean : 2602.10	Mean :29642	Mean :181.6

3rd Qu.:304.5	3rd Qu.: 3308.78	3rd Qu.:38205	3rd Qu.:231.2
Max. :413.0	Max. :17181.95	Max. :89278	Max. :540.5
InputLabour	InputMachinery	InputOther	OutputCrop
Min. : 3.413	Min. : 593.2	Min. : 1658	Min. : 3.2
1st Qu.: 1864.640	1st Qu.: 2991.2	1st Qu.: 7404	1st Qu.: 3191.1
Median : 3856.191	Median : 4287.7	Median :10896	Median : 6913.7
Mean : 4612.578	Mean : 5041.6	Mean :11999	Mean : 9515.0
3rd Qu.: 6074.429	3rd Qu.: 6226.4	3rd Qu.:14745	3rd Qu.:12994.8
Max. :22217.704	Max. :19963.0	Max. :39833	Max. :60572.4
OutputPig	PriceFertilizer	PriceFeed	PriceLand
Min. : 10139	Min. :101.2	Min. :71.38	Min. : 170.3
1st Qu.: 46080	1st Qu.:106.7	1st Qu.:73.66	1st Qu.: 2747.2
Median : 66688	Median :107.6	Median :73.84	Median : 3546.9
Mean : 77714	Mean :107.7	Mean :73.92	Mean : 4545.6
3rd Qu.: 99954	3rd Qu.:108.5	3rd Qu.:74.07	3rd Qu.: 5038.8
Max. :340757	Max. :116.4	Max. :77.58	Max. :31238.1
PriceLabour	PriceMachinery	PriceOther	PriceCrop
Min. :136.2	Min. :175.8	Min. : 78.94	Min. : 53.33
1st Qu.:136.2	1st Qu.:188.3	1st Qu.: 94.66	1st Qu.: 74.82
Median :136.2	Median :190.5	Median : 96.54	Median : 76.69
Mean :136.2	Mean :190.2	Mean : 96.08	Mean : 80.42
3rd Qu.:136.2	3rd Qu.:191.7	3rd Qu.: 98.01	3rd Qu.: 80.27
Max. :136.2	Max. :209.3	Max. :113.23	Max. :385.53
PricePig	TotalCost	TotalRevenue	
Min. :68.34	Min. : 1036224	Min. : 888396	
1st Qu.:72.71	1st Qu.: 3770648	1st Qu.: 3882722	
Median :72.99	Median : 5245819	Median : 5362363	
Mean :73.04	Mean : 6006791	Mean : 6407711	
3rd Qu.:73.18	3rd Qu.: 7441024	3rd Qu.: 7945128	
Max. :79.58	Max. :17222886	Max. :24959187	