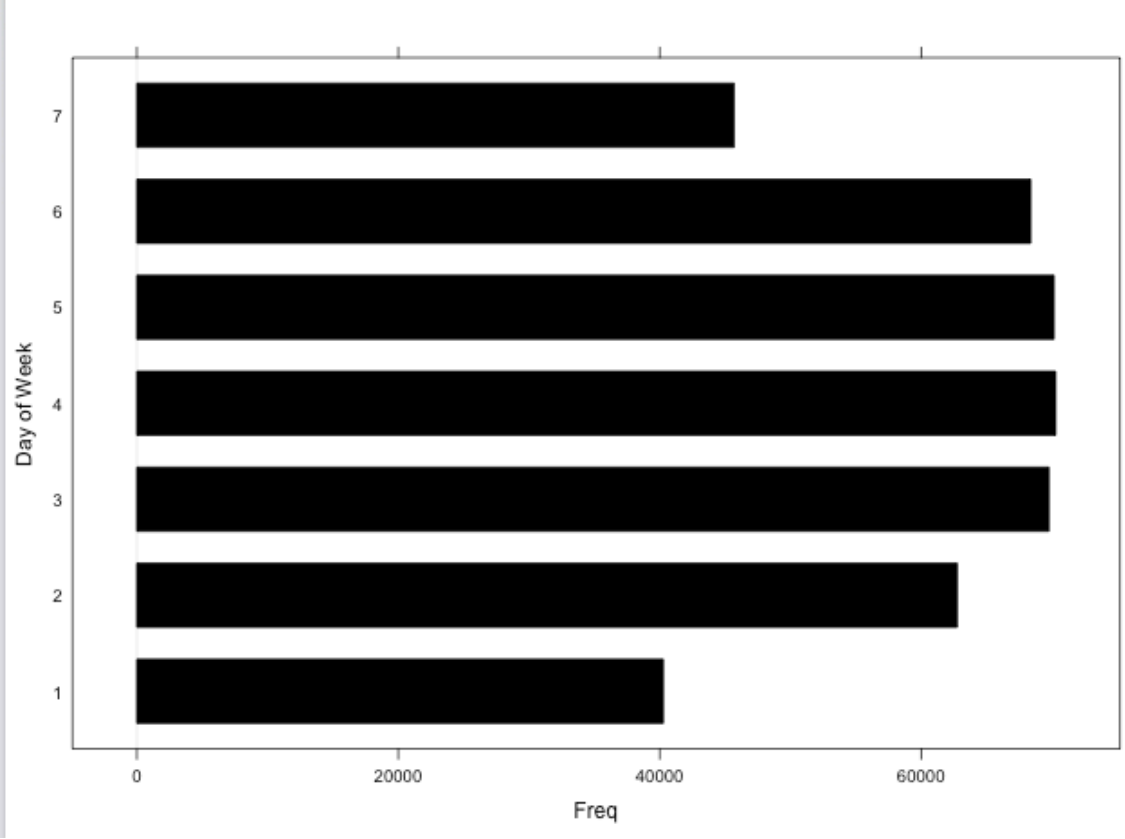
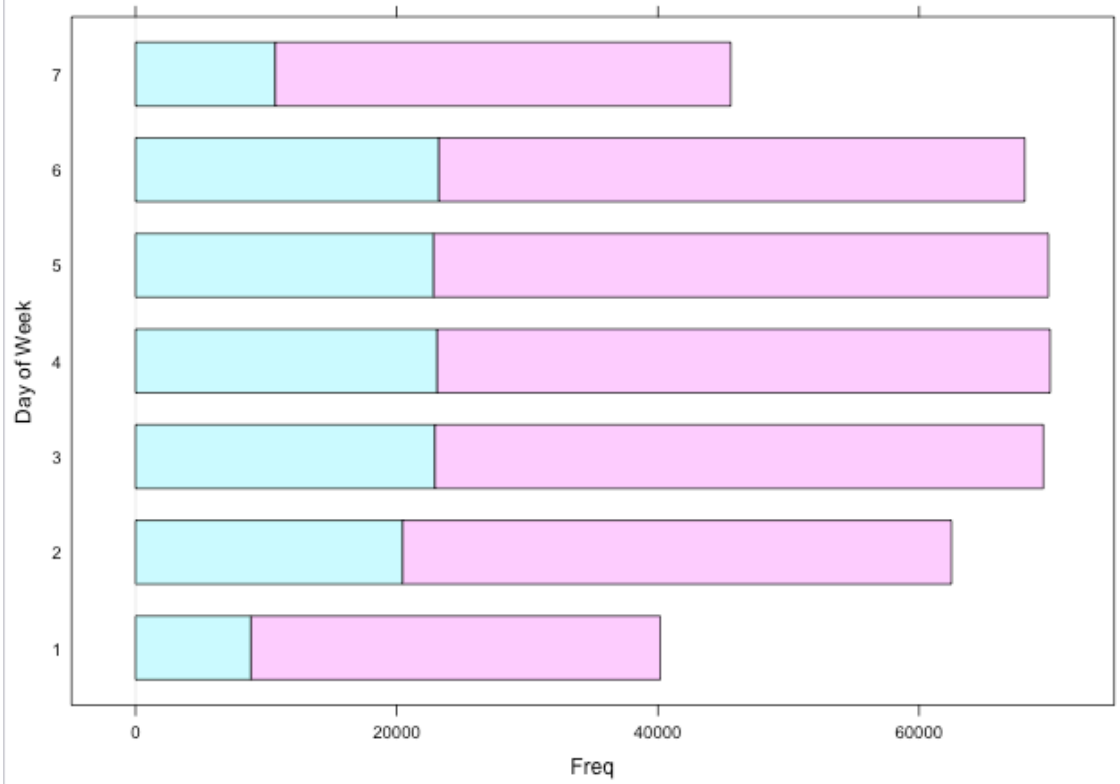
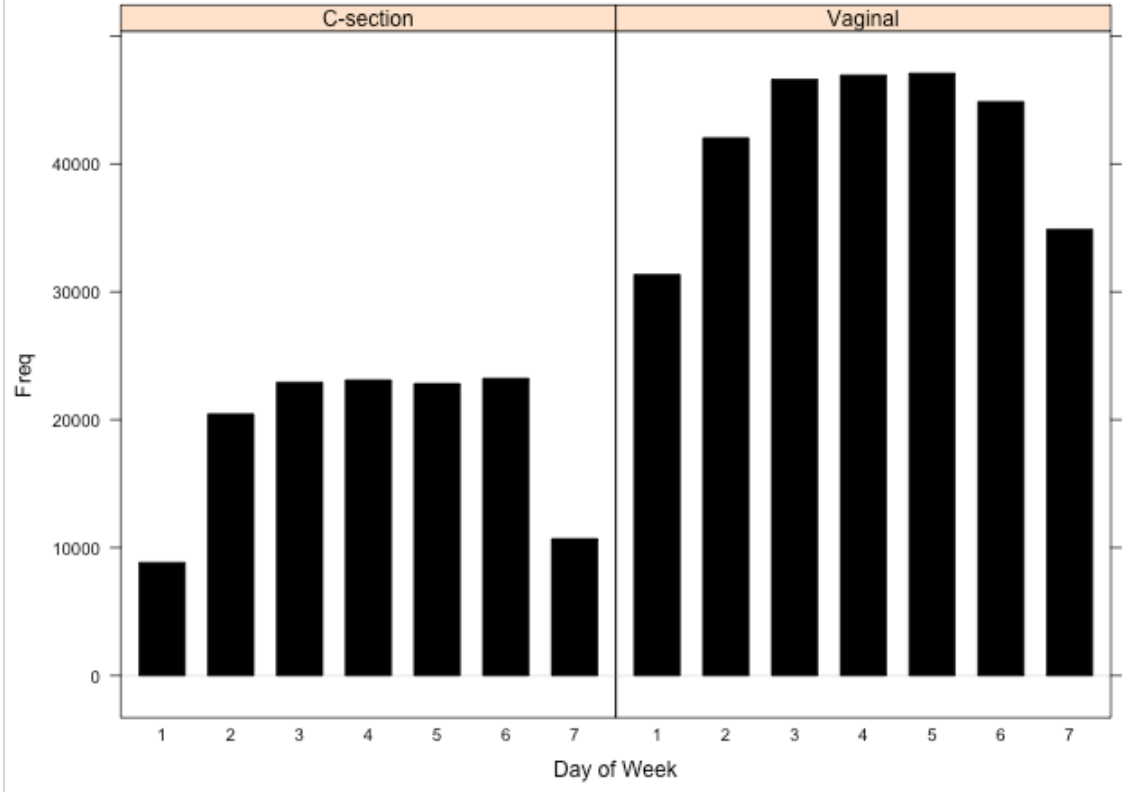
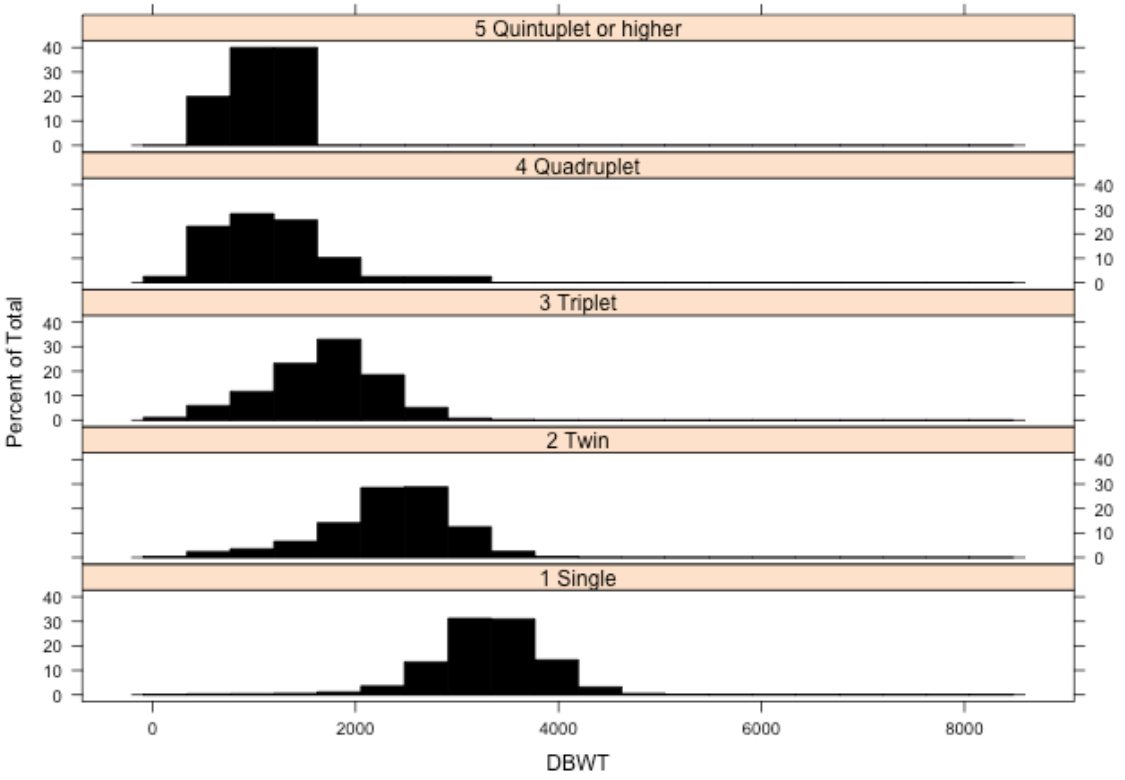
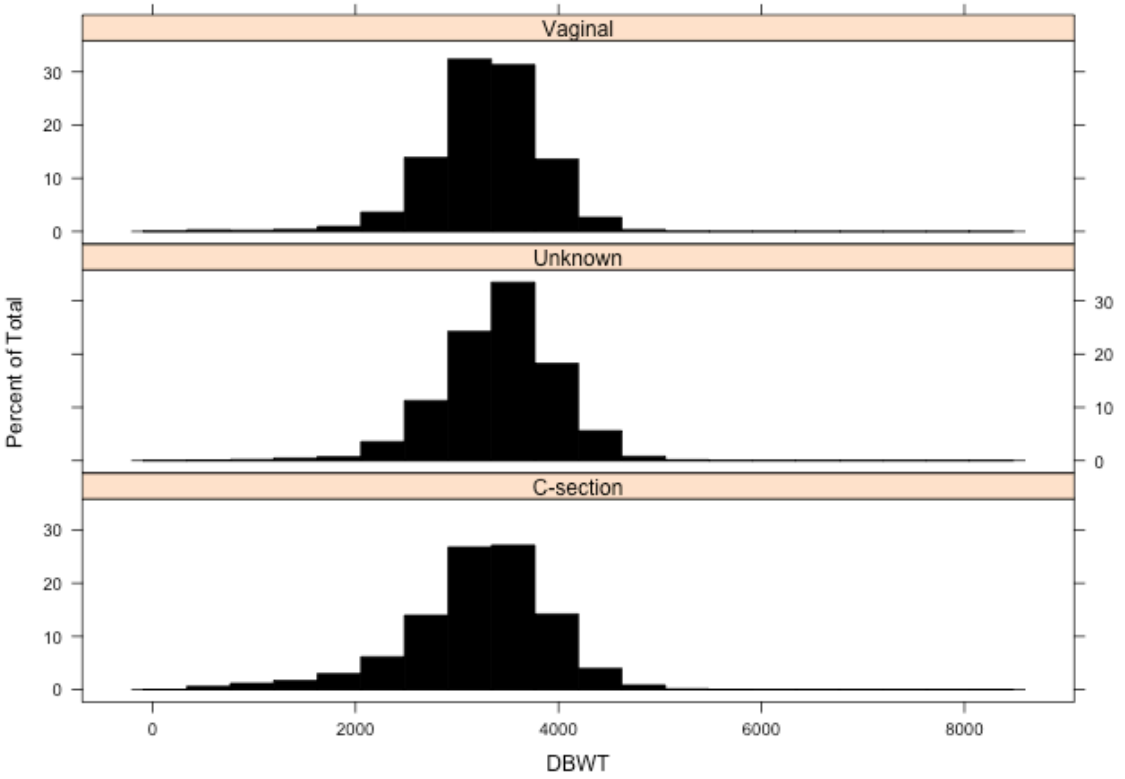
ROBERT LEGGETT
DATA MINING & BUSINESS ANALYTICS IN R
CHAPTER 2. PROCESSING THE INFORMATION & GET TO KNOW YOUR DATA
VISUALIZATIONS WITH LATTICE

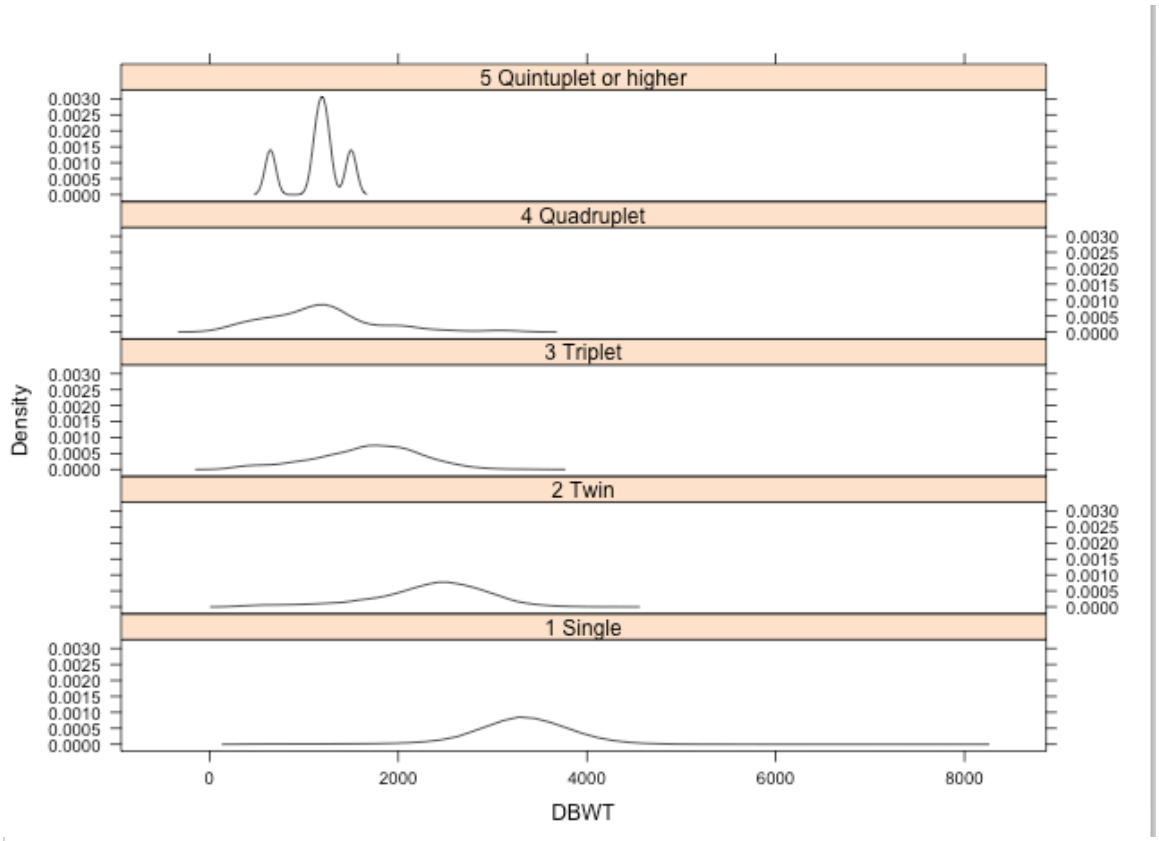


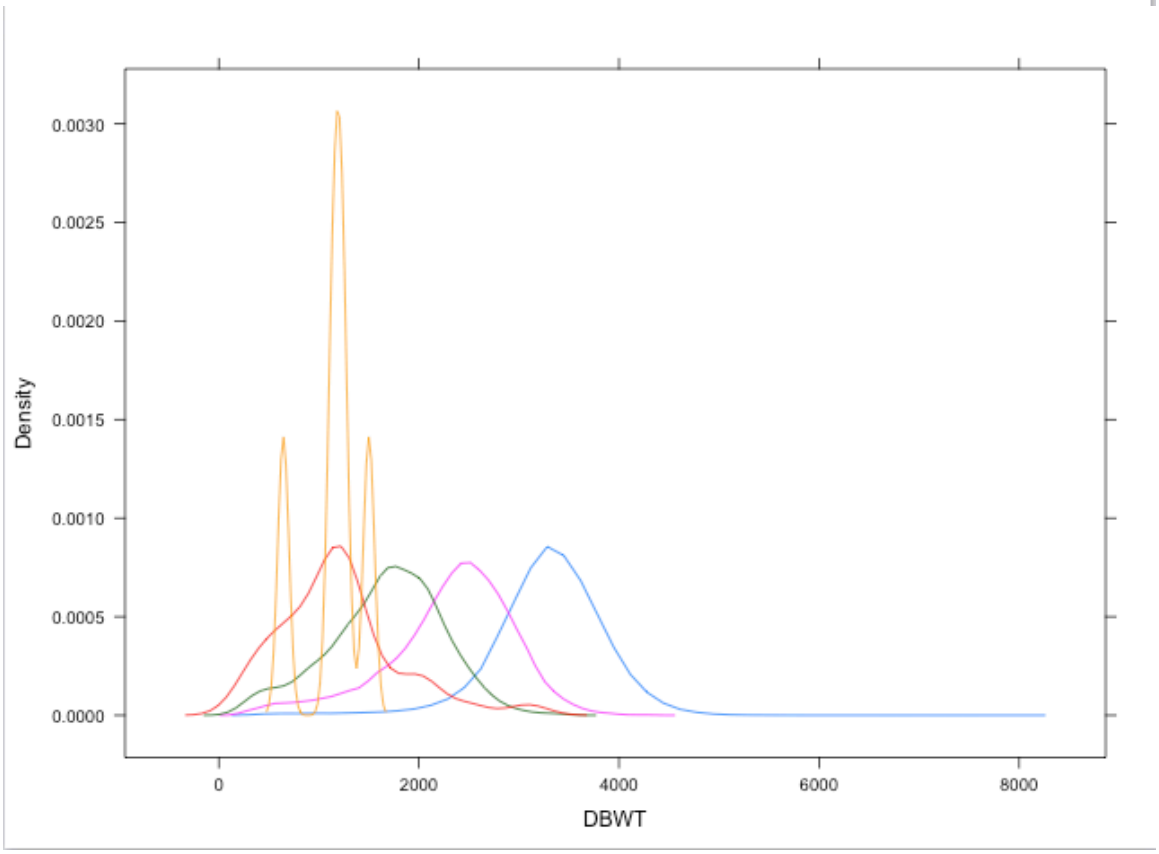

Day of Week
7
6
5
4
3
2
1
0
20000
40000
60000
Freq

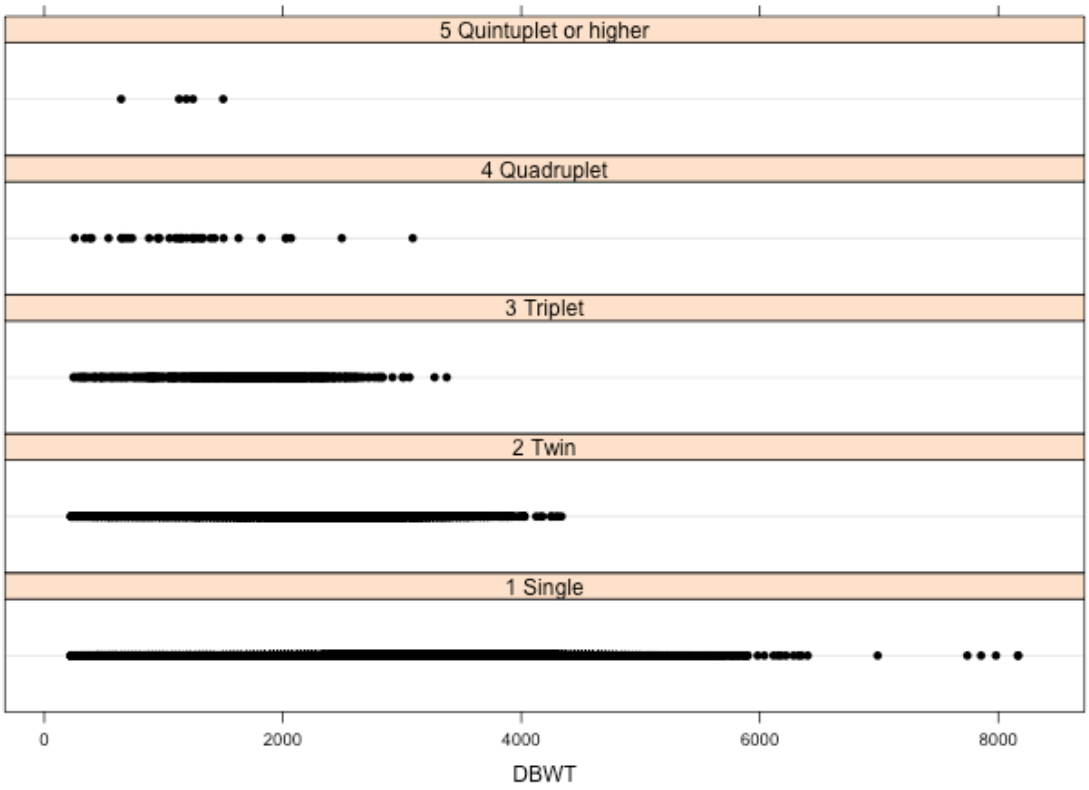

C-section
Vaginal
Freq
40000
30000
20000
10000
0
1
2
3
4
5
6
7
Day of Week

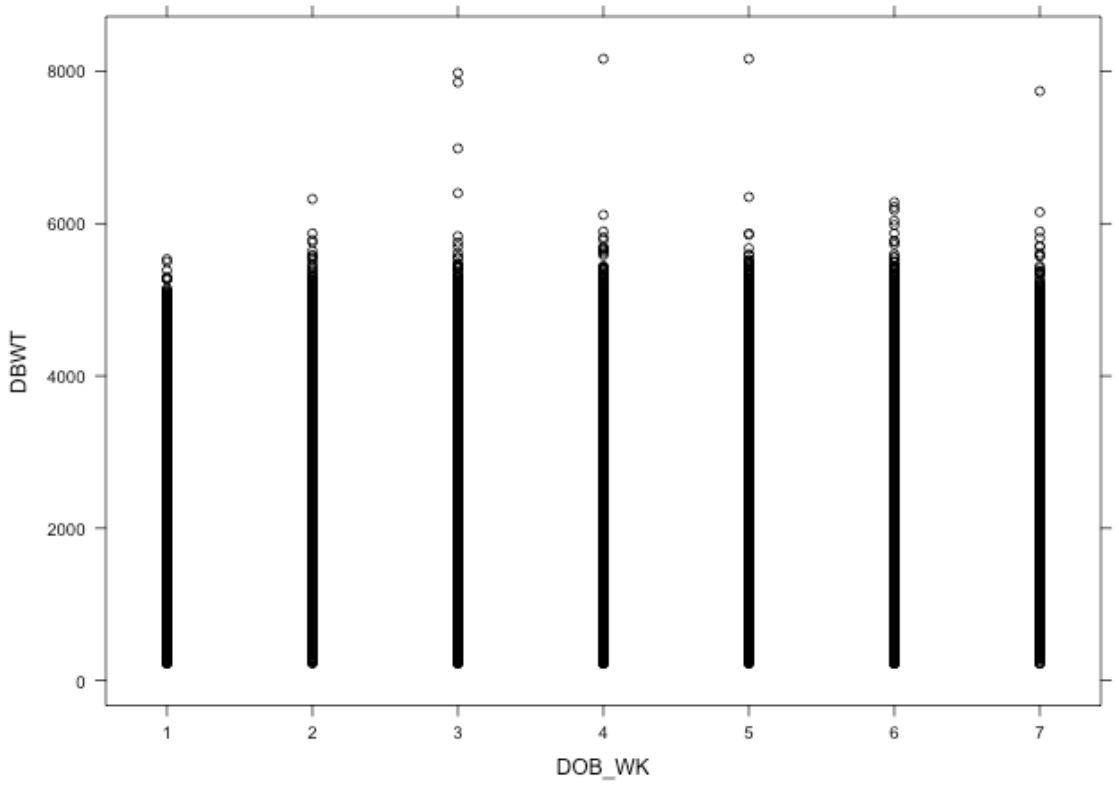

5 Quintuplet or higher
4 Quadruplet
3 Triplet
2 Twin
1 Single
Percent of Total
0
10
20
30
40
0
2000
4000
6000
8000
DBWT

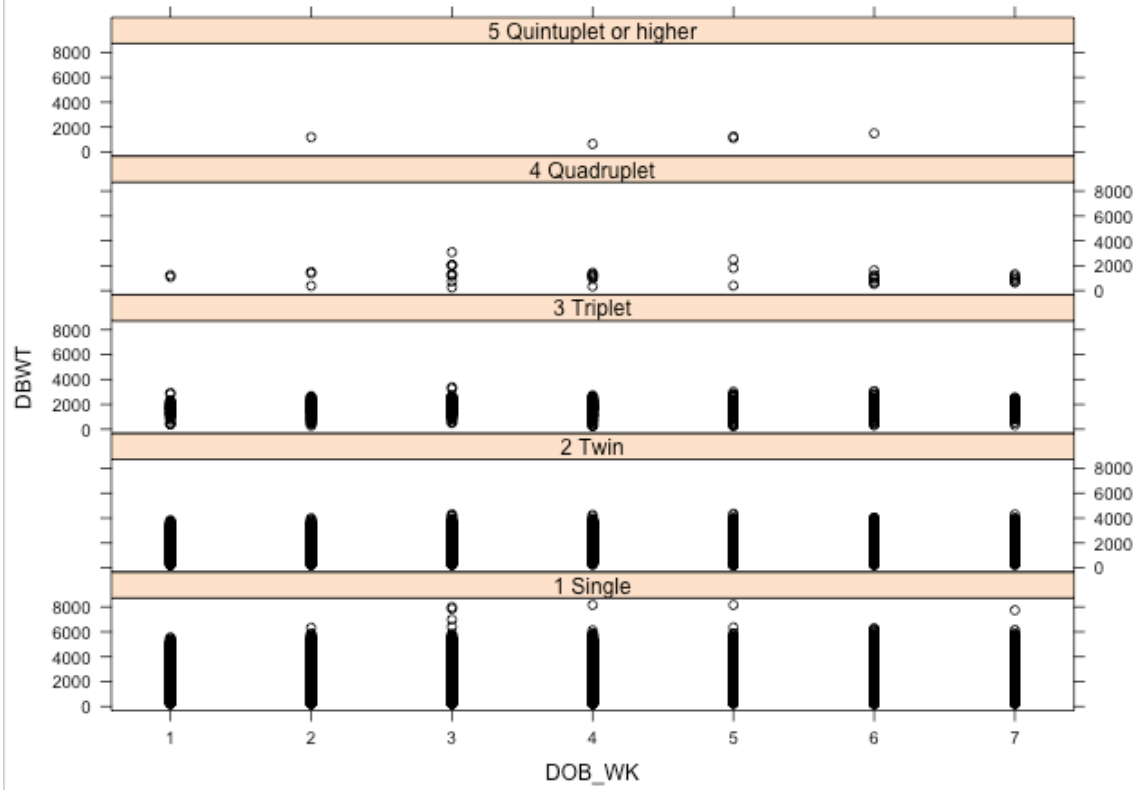

Vaginal
Unknown
C-section
Percent of Total
0
10
20
30
0
2000
4000
6000
8000
DBWT

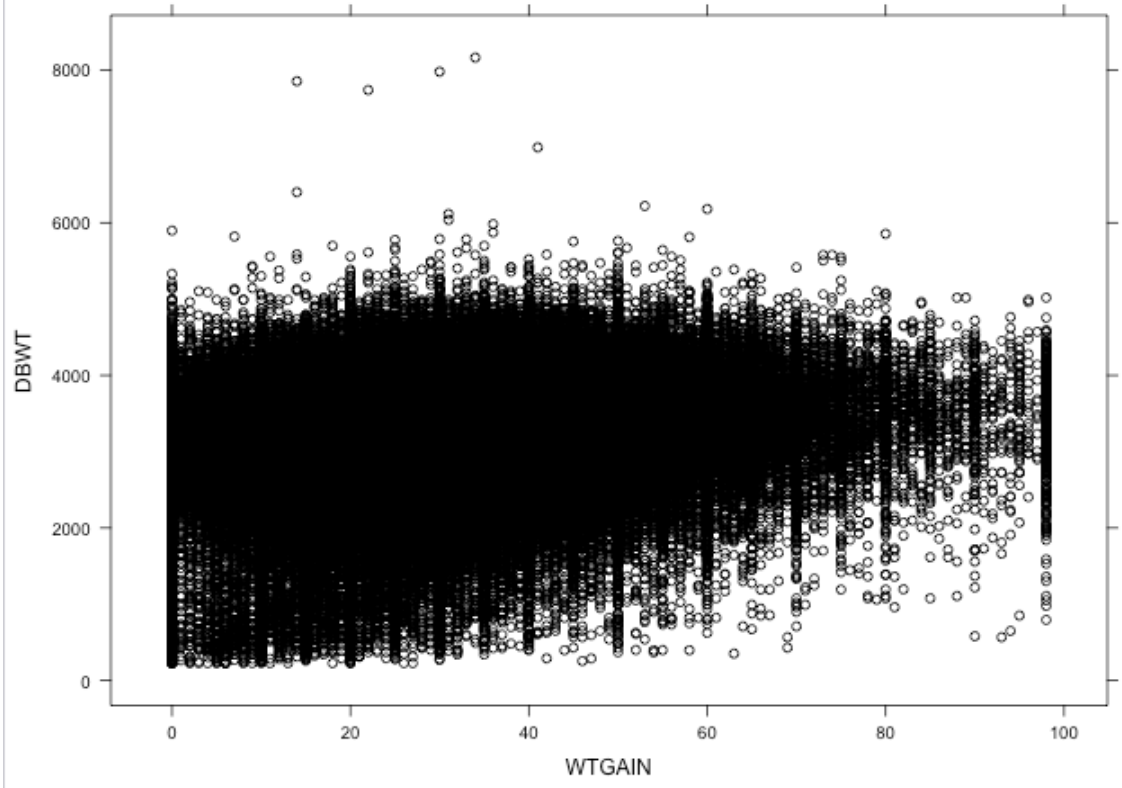

5 Quintuplet or higher
4 Quadruplet
3 Triplet
2 Twin
1 Single
Density
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
2000
4000
6000
8000
DBWT

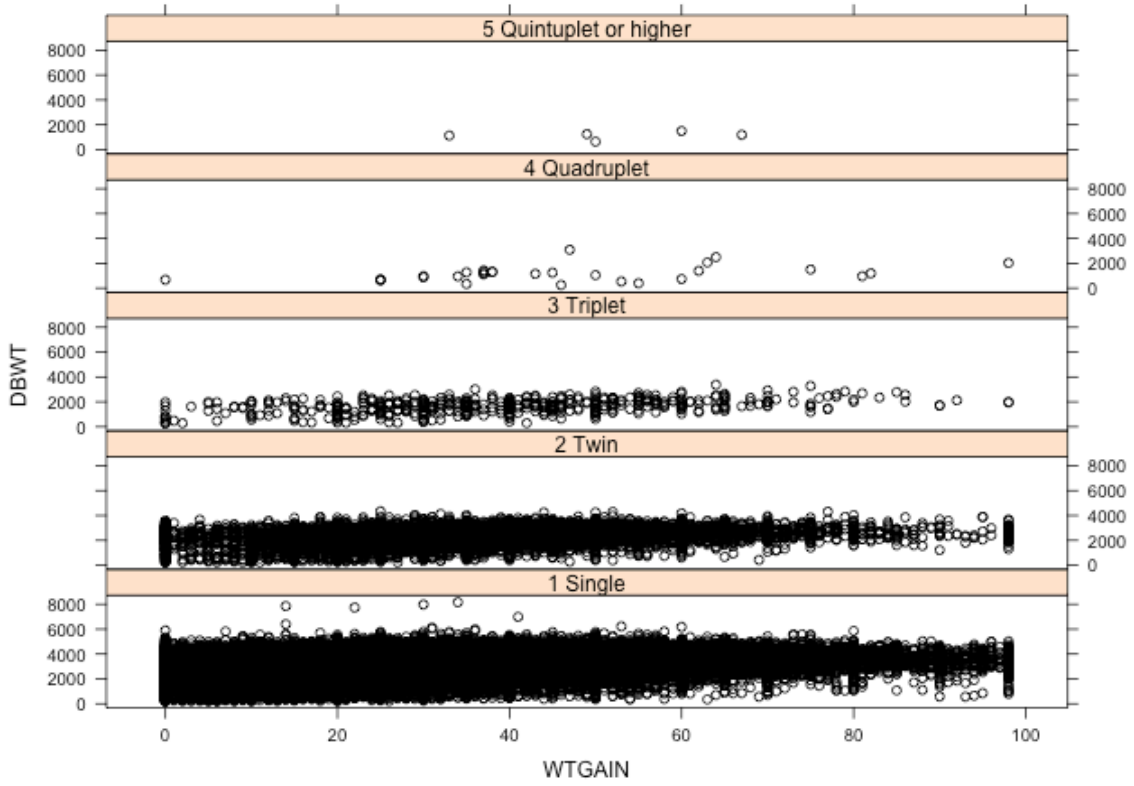

Density
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
2000
4000
6000
8000
DBWT

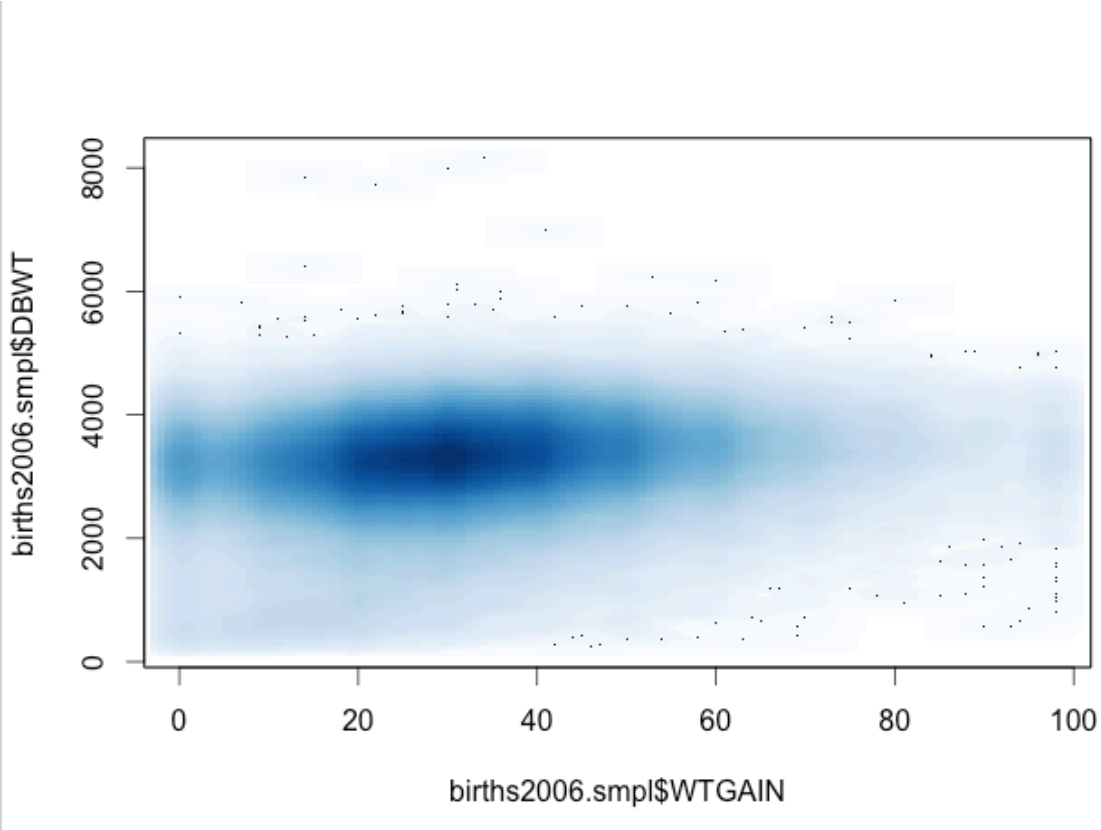

5 Quintuplet or higher
4 Quadruplet
3 Triplet
2 Twin
1 Single
0
2000
4000
6000
8000
DBWT

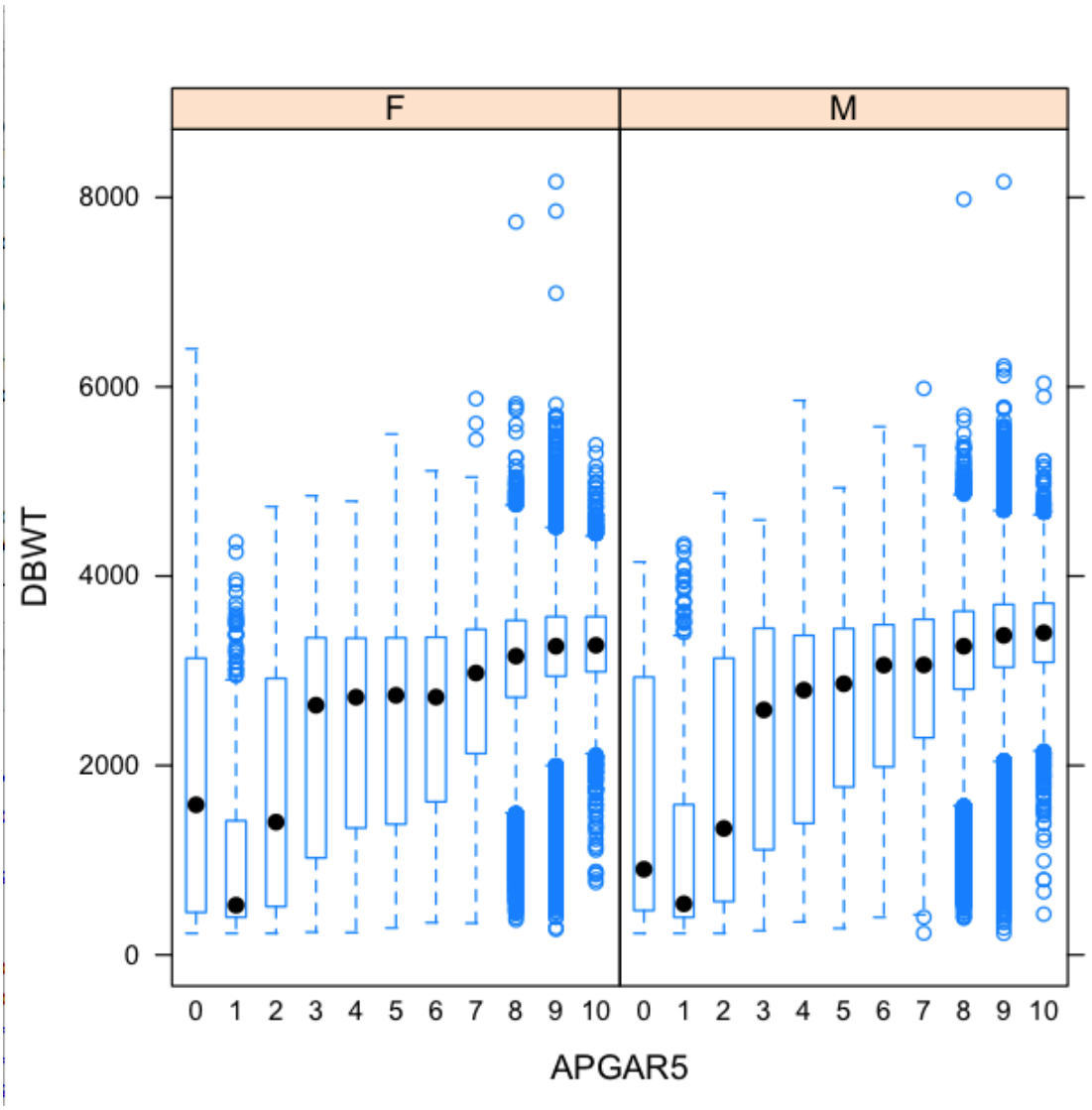

8000
6000
4000
2000
0
DBWT
1
2
3
4
5
6
7
DOB_WK

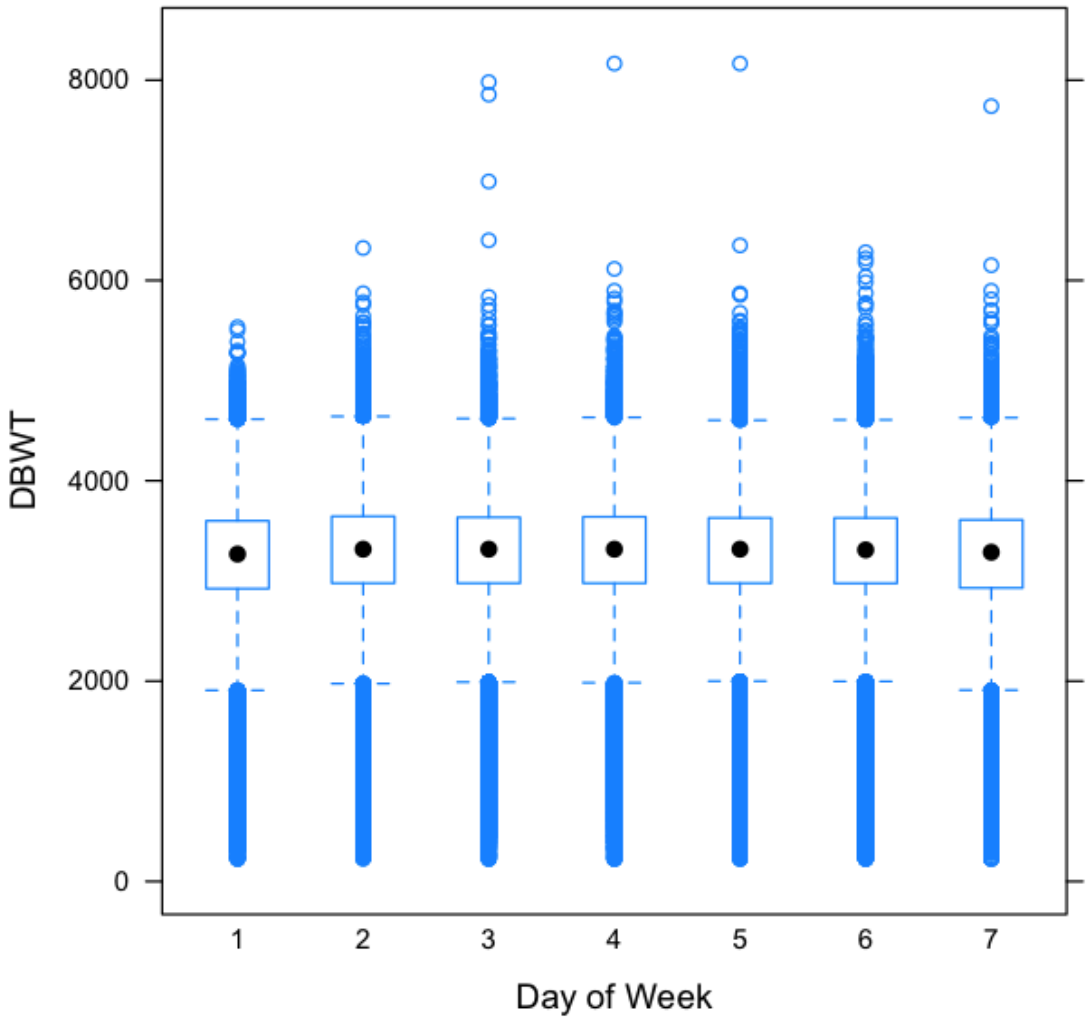

5 Quintuplet or higher
4 Quadruplet
3 Triplet
2 Twin
1 Single
DBWT
DOB_WK
0
2000
4000
6000
8000
1
2
3
4
5
6
7

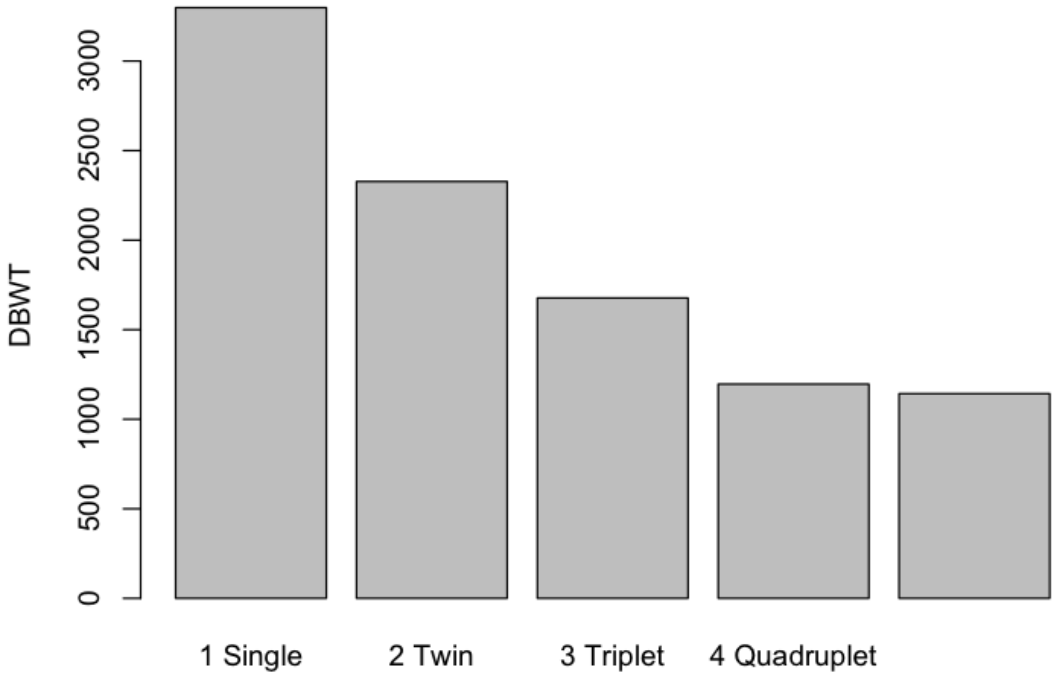

DBWT
WTGAIN
0
2000
4000
6000
8000
0
20
40
60
80
100

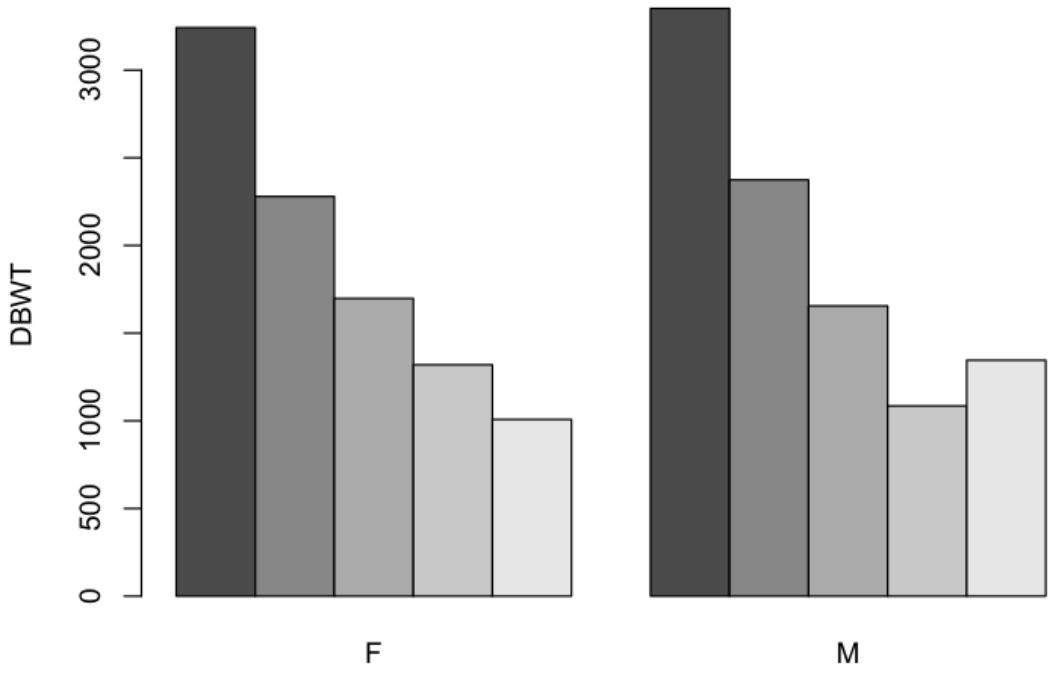

5 Quintuplet or higher
4 Quadruplet
3 Triplet
2 Twin
1 Single
DBWT
WTGAIN
0
2000
4000
6000
8000
0
20
40
60
80
100


births2006.smpl$DBWT
births2006.smpl$WTGAIN
0
2000
4000
6000
8000
0
20
40
60
80
100

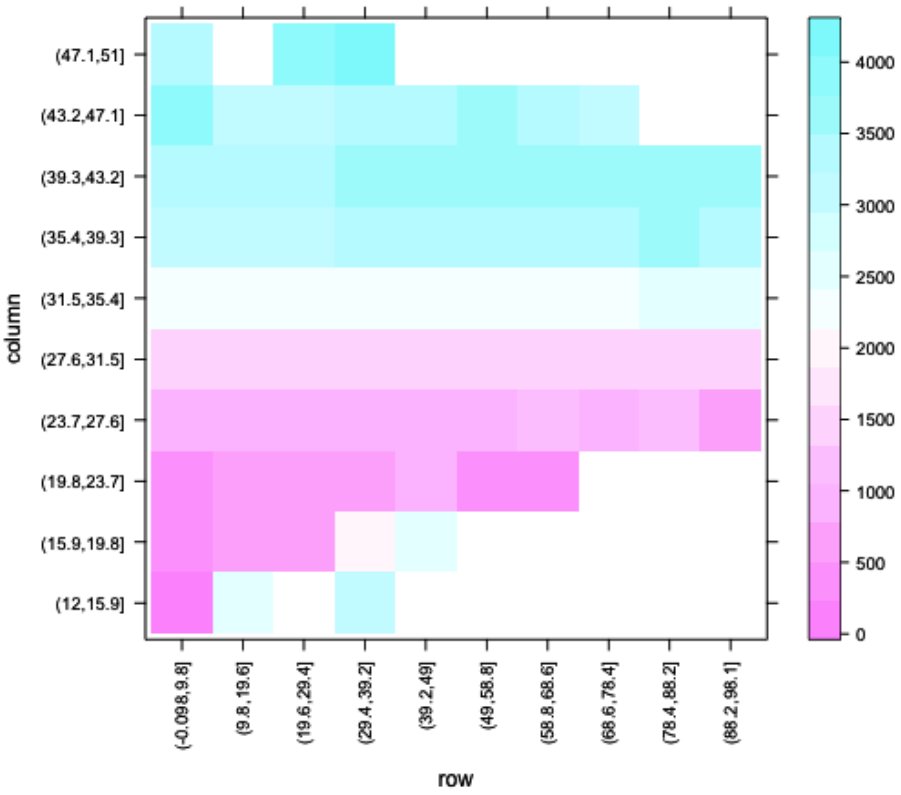

F
M
DBWT
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10 0 1 2 3 4 5 6 7 8 9 10
APGAR5

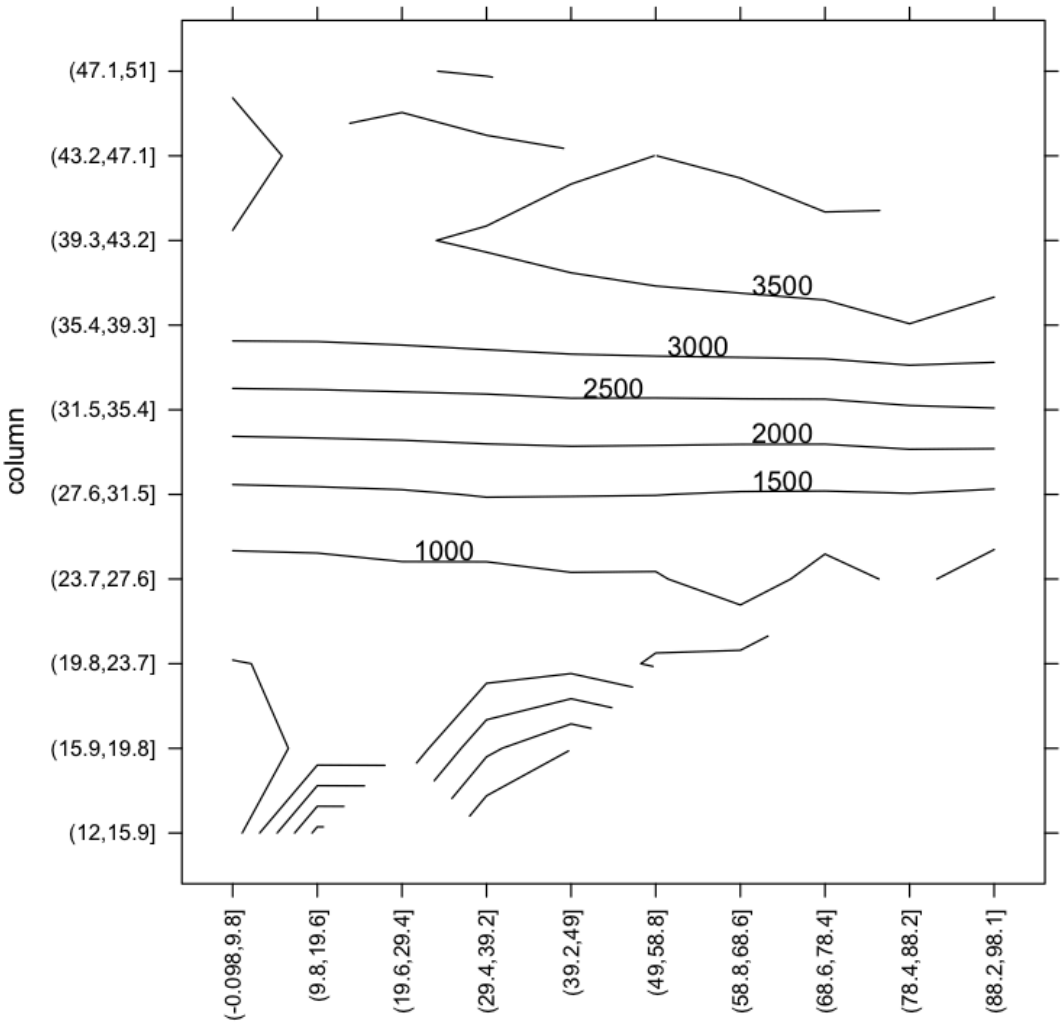

8000
6000
4000
2000
0
DBWT
1
2
3
4
5
6
7
Day of Week


DBWT
0
500
1000
1500
2000
2500
3000
1 Single
2 Twin
3 Triplet
4 Quadruplet


DBWT
0
500
1000
2000
3000
F
M

```
> t6=tapply(new$DBWT, INDEX = list(cut(new$WTGAIN, breaks=10),
+ cut(new$ESTGEST, breaks=10)),
+ FUN = mean, na.rm=TRUE)
> t6
             (12,15.9] (15.9,19.8] (19.8,23.7] (23.7,27.6] (27.6,31.5]
(-0.098,9.8]       227    321.3125    486.7534    799.5614    1398.234
(9.8,19.6]        2649    592.8235    546.7738    813.4179    1421.181
(19.6,29.4]         NA    585.8889    590.1368    882.4800    1452.186
(29.4,39.2]       2977   1891.0000    731.5957    866.0294    1521.757
(39.2,49]           NA   2485.2500    803.8667    955.7639    1513.215
(49,58.8]           NA          NA    434.7500    950.8039    1506.355
(58.8,68.6]         NA          NA    352.0000   1285.6250    1469.508
(68.6,78.4]         NA          NA          NA    805.5714    1463.391
(78.4,88.2]         NA          NA          NA   1110.0000    1487.846
(88.2,98.1]         NA          NA          NA    768.0000    1434.333
             (31.5,35.4] (35.4,39.3] (39.3,43.2] (43.2,47.1] (47.1,51]
(-0.098,9.8]    2275.316    3166.748    3443.652    3911.667      3310
(9.8,19.6]      2289.950    3171.085    3434.708    3206.400        NA
(19.6,29.4]     2307.429    3213.362    3475.328    3007.800      3969
(29.4,39.2]     2323.002    3276.400    3535.965    3326.143      4042
(39.2,49]       2368.520    3329.068    3605.645    3447.200        NA
(49,58.8]       2358.658    3370.630    3650.549    3501.000        NA
(58.8,68.6]     2367.365    3389.672    3681.233    3435.500        NA
(68.6,78.4]     2368.205    3418.076    3694.160    3118.000        NA
(78.4,88.2]     2447.250    3496.495    3708.868          NA        NA
(88.2,98.1]     2481.105    3406.835    3688.067          NA        NA
```


column
(47.1,51]
(43.2,47.1]
(39.3,43.2]
(35.4,39.3]
(31.5,35.4]
(27.6,31.5]
(23.7,27.6]
(19.8,23.7]
(15.9,19.8]
(12,15.9]
row
(-0.098,9.8]
(9.8,19.6]
(19.6,29.4]
(29.4,39.2]
(39.2,49]
(49,58.8]
(58.8,68.6]
(68.6,78.4]
(78.4,88.2]
(88.2,98.1]
4000
3500
3000
2500
2000
1500
1000
500
0


column
(47.1,51]
(43.2,47.1]
(39.3,43.2]
(35.4,39.3]
(31.5,35.4]
(27.6,31.5]
(23.7,27.6]
(19.8,23.7]
(15.9,19.8]
(12,15.9]
3500
3000
2500
2000
1500
1000
(-0.098,9.8]
(9.8,19.6]
(19.6,29.4]
(29.4,39.2]
(39.2,49]
(49,58.8]
(58.8,68.6]
(68.6,78.4]
(78.4,88.2]
(88.2,98.1]