

## Attachment J – Height and weight percentile

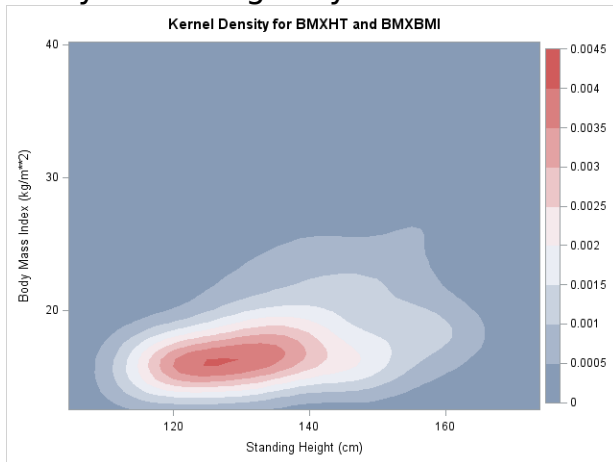
### Height by Body Mass Index (BMI)

The first variable comparison reviewed was standing height in centimeters to BMI. The following contour plots show the distributions by gender and age between standing height and BMI. These plots take into account the survey weights for the NHANES data. Please note that these plots do not have the axes fixed between plots so that the population distributions for each age can be shown better.

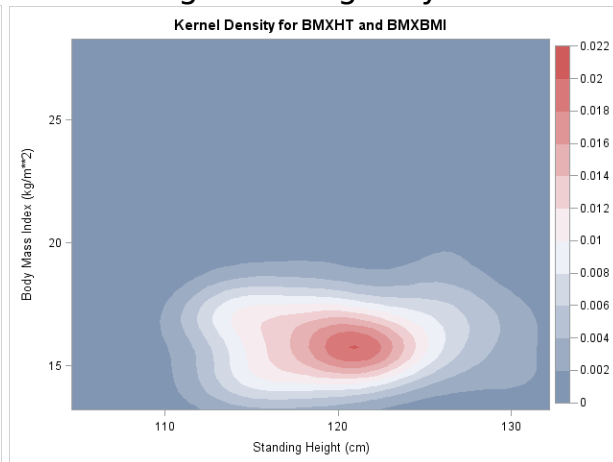
#### Males

The following contour plots are for males ages 6 to 12. The initial plot is all males age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.

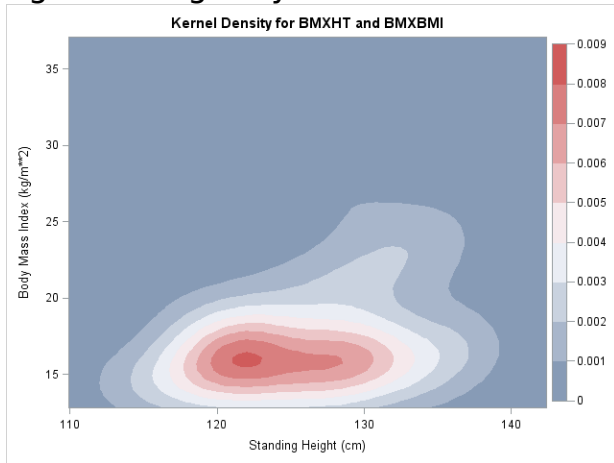
Everyone – Height by BMI



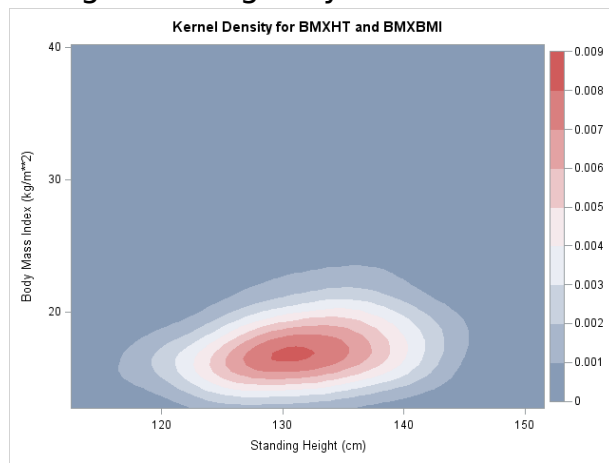
Age 6 – Height by BMI



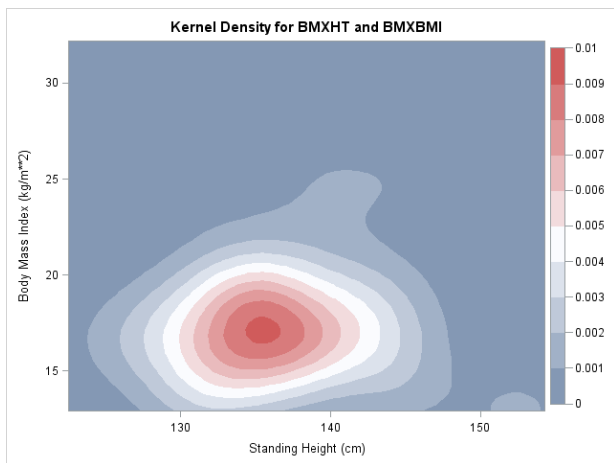
Age 7 - Height by BMI



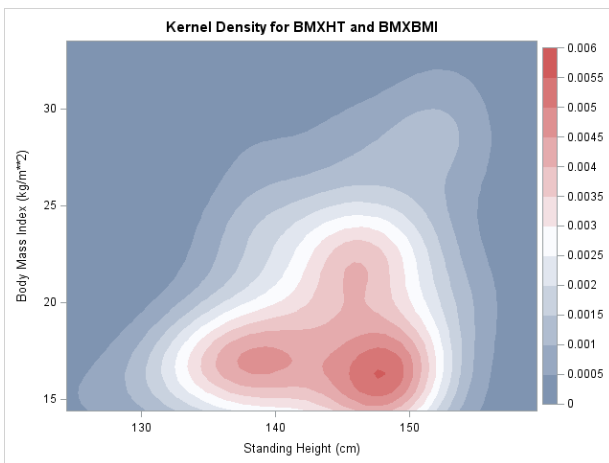
Age 8 - Height by BMI



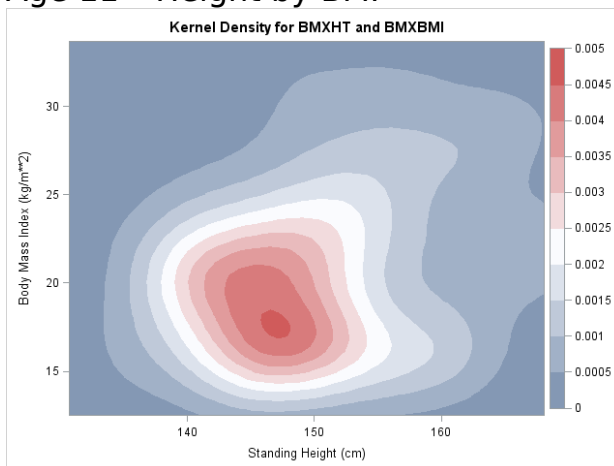
Age 9 - Height by BMI



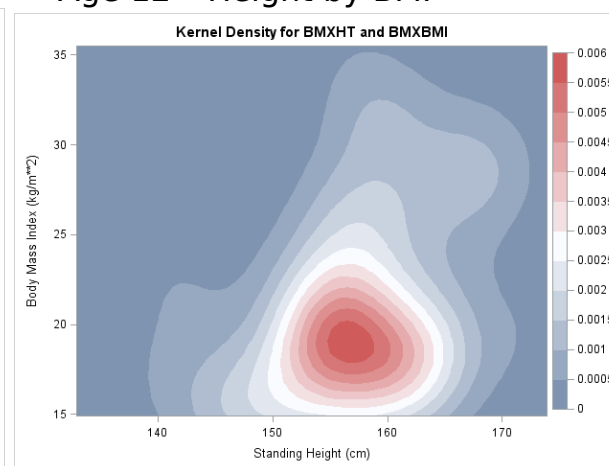
Age 10 - Height by BMI



Age 11 - Height by BMI



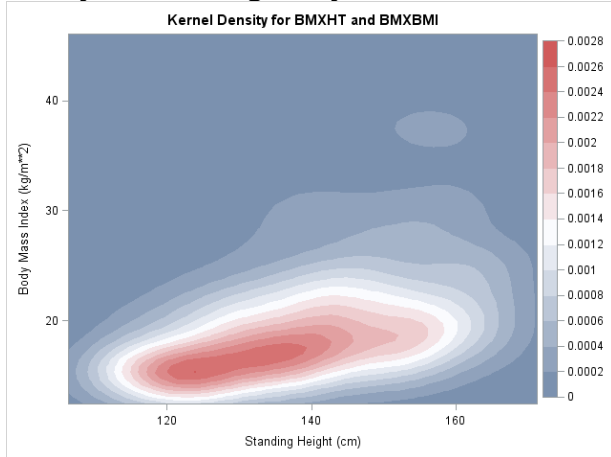
Age 12 - Height by BMI



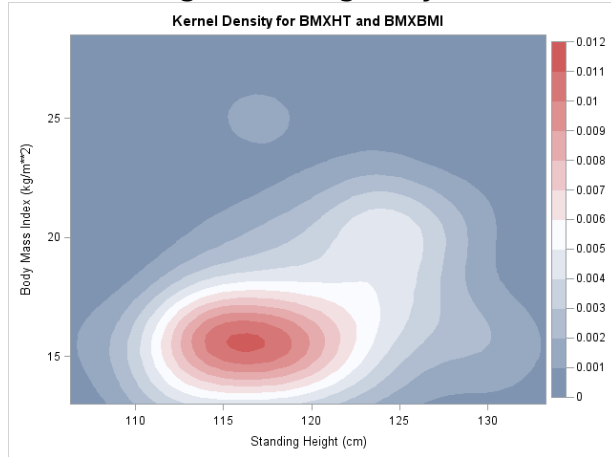
## Females

The following contour plots are for females ages 6 to 12. The initial plot is all females age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.

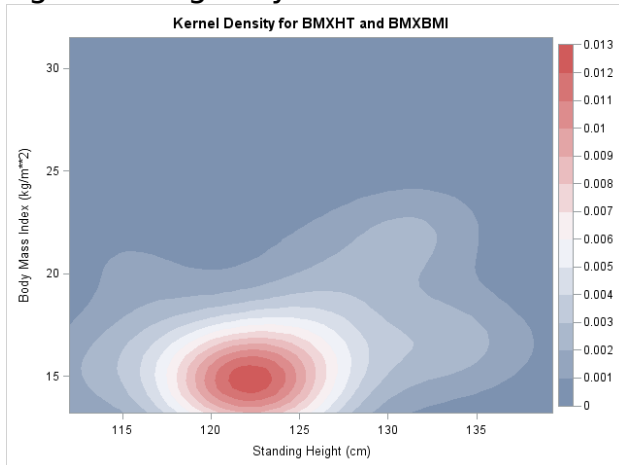
### Everyone - Height by BMI



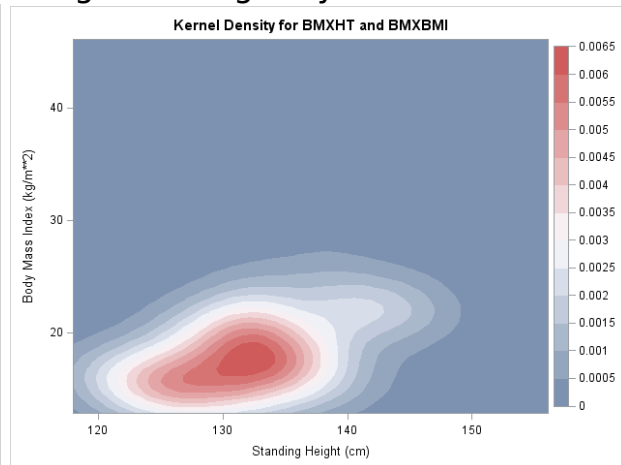
### Age 6 - Height by BMI



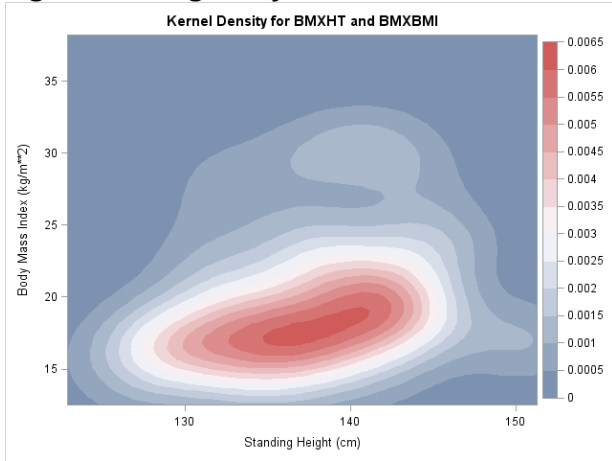
### Age 7 - Height by BMI



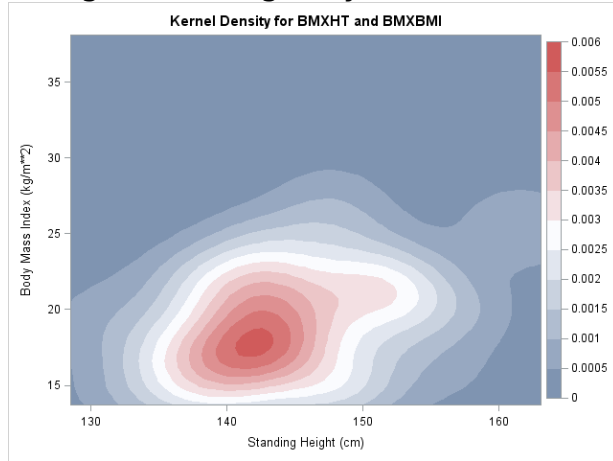
### Age 8 - Height by BMI



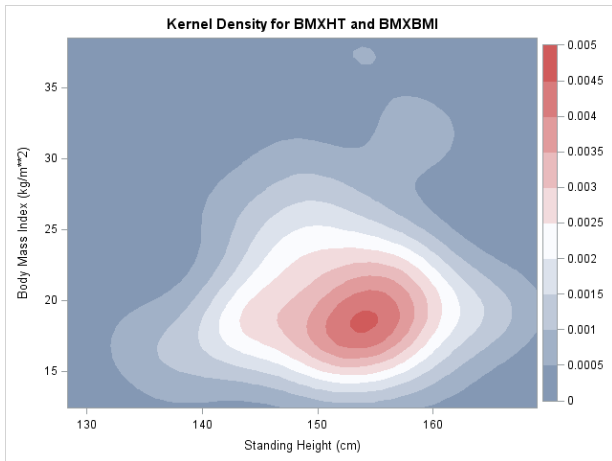
Age 9 - Height by BMI



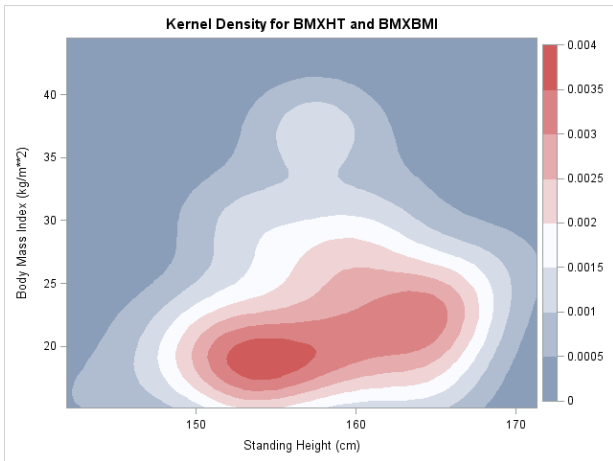
Age 10 - Height by BMI



Age 11 - Height by BMI



Age 12 - Height by BMI



### Height by Weight

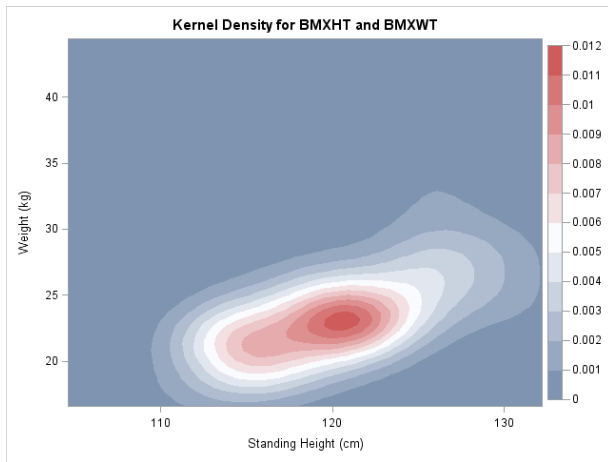
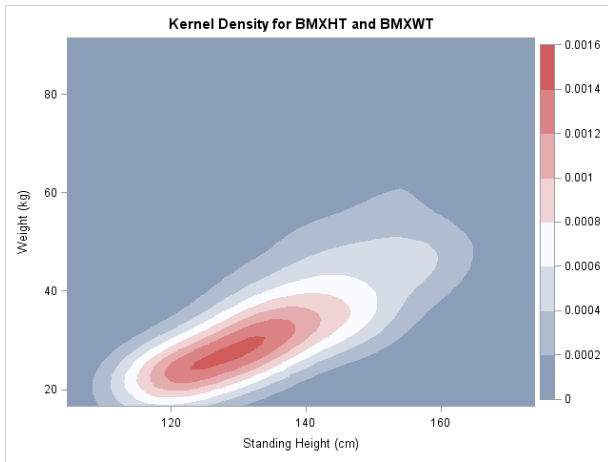
The second variable comparison reviewed was standing height in centimeters to weight in kilograms. The following contour plots show the distributions by gender and age between standing height and weight. These plots take into account the survey weights for the NHANES data. Please note that these plots do not have the axes fixed between plots so that the population distributions for each age can be shown better.

#### Males

The following contour plots are for males ages 6 to 12. The initial plot is all males age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.

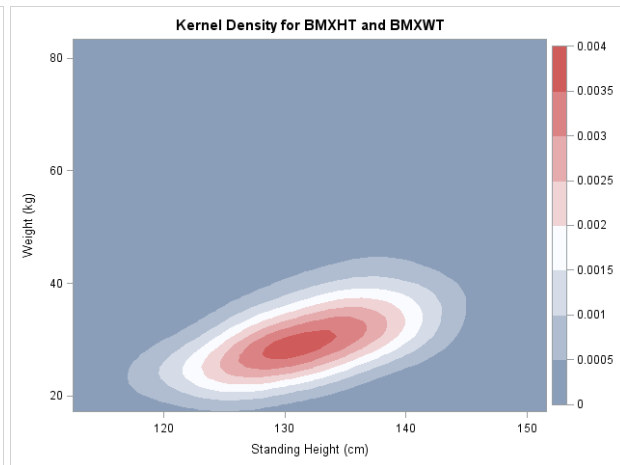
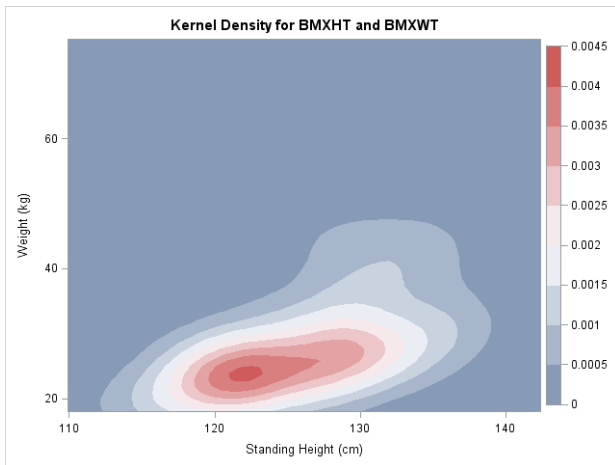
Everyone - Height by Weight

Age 6 - Height by Weight



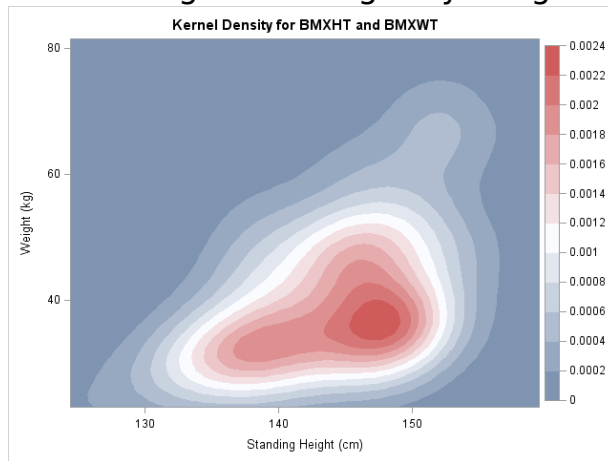
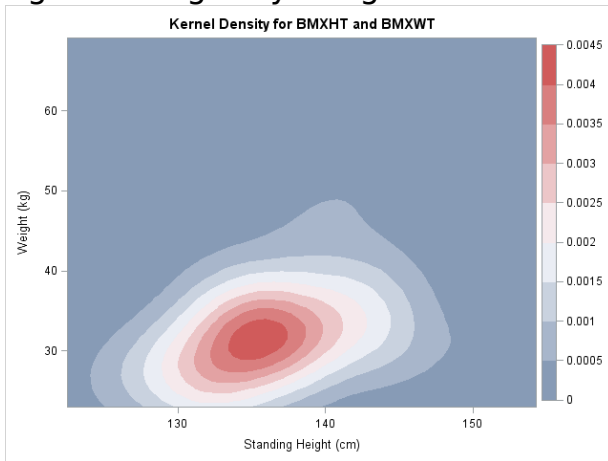
Age 7 - Height by Weight

Age 8 - Height by Weight



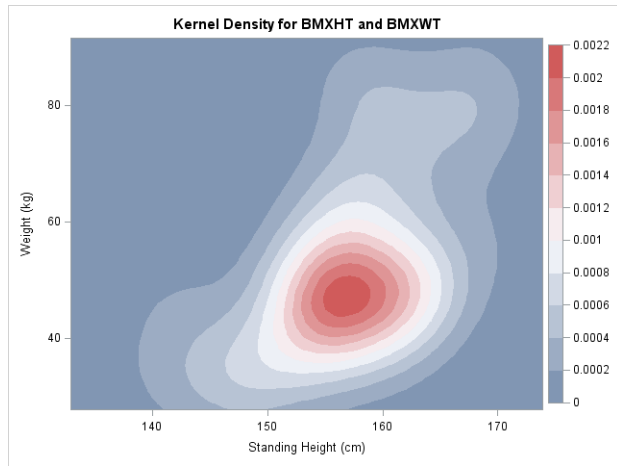
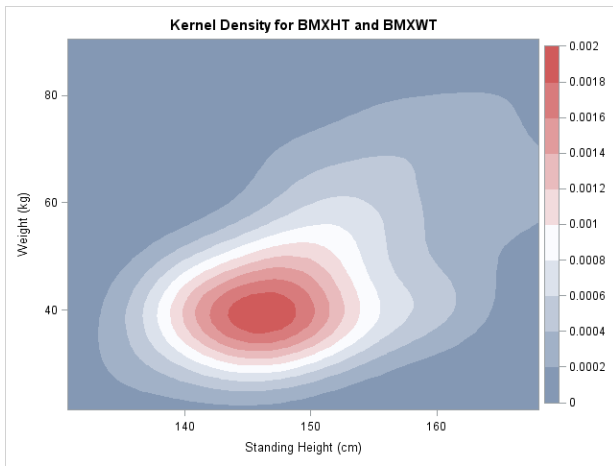
Age 9 - Height by Weight

Age 10 - Height by Weight



Age 11 - Height by Weight

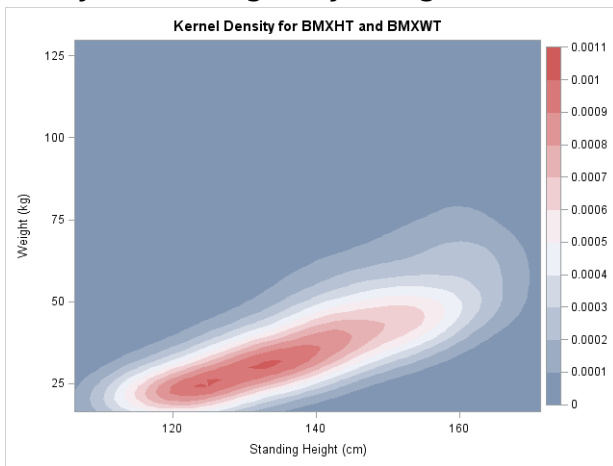
Age 12 - Height by Weight



### Females

The following contour plots are for females ages 6 to 12. The initial plot is all females age 6-12, and the remaining plots are for each separate age from 6 years old to 12 years old.

#### Everyone - Height by Weight



#### Age 6 - Height by Weight

