**Smoking Survey Statistics**

Christian Stewart

2023-03-04

**Age Frequency Table**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** | **Percent** | **Cumulative Percent** |
| 18 | 1 | 1.4 | 1.4 |
| 19 | 13 | 18.6 | 20 |
| 20 | 14 | 20 | 40 |
| 21 | 10 | 14.3 | 54.3 |
| 22 | 8 | 11.4 | 65.7 |
| 23 | 2 | 2.9 | 68.6 |
| 24 | 4 | 5.7 | 74.3 |
| 25 | 1 | 1.4 | 75.7 |
| 26 | 1 | 1.4 | 77.1 |
| 27 | 1 | 1.4 | 78.6 |
| 29 | 1 | 1.4 | 80 |
| 32 | 1 | 1.4 | 81.4 |
| 35 | 1 | 1.4 | 82.9 |
| 39 | 3 | 4.3 | 87.1 |
| 40 | 1 | 1.4 | 88.6 |
| 43 | 1 | 1.4 | 90 |
| 45 | 2 | 2.9 | 92.9 |
| 48 | 1 | 1.4 | 94.3 |
| 49 | 1 | 1.4 | 95.7 |
| 50 | 1 | 1.4 | 97.1 |
| 54 | 1 | 1.4 | 98.6 |
| 68 | 1 | 1.4 | 100 |
| **Total** | **70** | **100.0** | **100.0** |

**Sex Frequency Table**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** | **Percent** | **Cumulative Percent** |
| 1 | 56 | 80 | 80 |
| 2 | 14 | 20 | 100 |
| **Total** | **70** | **100** | **100** |

**Weight Frequency Table**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** | **Percent** | **Cumulative Percent** |
| 40 | 3 | 4.3 | 4.3 |
| 43 | 1 | 1.4 | 5.7 |
| 45 | 1 | 1.4 | 7.1 |
| 50 | 8 | 11.4 | 18.6 |
| 51 | 1 | 1.4 | 20 |
| 52 | 1 | 1.4 | 21.4 |
| 53 | 1 | 1.4 | 22.9 |
| 54 | 1 | 1.4 | 24.3 |
| 55 | 5 | 7.1 | 31.4 |
| 56 | 4 | 5.7 | 37.1 |
| 57 | 2 | 2.9 | 40 |
| 58 | 4 | 5.7 | 45.7 |
| 60 | 5 | 7.1 | 52.9 |
| 62 | 4 | 5.7 | 58.6 |
| 65 | 5 | 7.1 | 65.7 |
| 66.1 | 1 | 1.4 | 67.1 |
| 67 | 2 | 2.9 | 70 |
| 68 | 1 | 1.4 | 71.4 |
| 70 | 3 | 4.3 | 75.7 |
| 71 | 5 | 7.1 | 82.9 |
| 72 | 1 | 1.4 | 84.3 |
| 75 | 4 | 5.7 | 90 |
| 76 | 1 | 1.4 | 91.4 |
| 85 | 2 | 2.9 | 94.3 |
| 89 | 1 | 1.4 | 95.7 |
| 94 | 1 | 1.4 | 97.1 |
| 95 | 1 | 1.4 | 98.6 |
| 110 | 1 | 1.4 | 100 |
| **Total** | **70** | **100.0** | **100.0** |

**Height Frequency Table**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** | **Percent** | **Cumulative Percent** |
| 1.23 | 1 | 1.4 | 1.4 |
| 1.32 | 1 | 1.4 | 2.9 |
| 1.42 | 1 | 1.4 | 4.3 |
| 1.5 | 4 | 5.7 | 10 |
| 1.52 | 8 | 11.4 | 21.4 |
| 1.56 | 1 | 1.4 | 22.9 |
| 1.57 | 1 | 1.4 | 24.3 |
| 1.6 | 5 | 7.1 | 31.4 |
| 1.62 | 4 | 5.7 | 37.1 |
| 1.64 | 2 | 2.9 | 40 |
| 1.65 | 6 | 8.6 | 48.6 |
| 1.67 | 3 | 4.3 | 52.9 |
| 1.68 | 1 | 1.4 | 54.3 |
| 1.7 | 7 | 10 | 64.3 |
| 1.72 | 6 | 8.6 | 72.9 |
| 1.75 | 6 | 8.6 | 81.4 |
| 1.76 | 2 | 2.9 | 84.3 |
| 1.77 | 1 | 1.4 | 85.7 |
| 1.8 | 4 | 5.7 | 91.4 |
| 1.9 | 2 | 2.9 | 94.3 |
| 6 | 1 | 1.4 | 95.7 |
| 152 | 1 | 1.4 | 97.1 |
| 162 | 1 | 1.4 | 98.6 |
| 168 | 1 | 1.4 | 100 |
| **Total** | **70** | **100** | **100** |

**Ncigar Frequency Table**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** | **Percent** | **Cumulative Percent** |
| 0 | 2 | 2.9 | 2.9 |
| 1 | 9 | 12.9 | 15.7 |
| 2 | 7 | 10 | 25.7 |
| 3 | 6 | 8.6 | 34.3 |
| 4 | 7 | 10 | 44.3 |
| 5 | 11 | 15.7 | 60 |
| 6 | 7 | 10 | 70 |
| 7 | 1 | 1.4 | 71.4 |
| 8 | 2 | 2.9 | 74.3 |
| 9 | 1 | 1.4 | 75.7 |
| 10 | 7 | 10 | 85.7 |
| 12 | 1 | 1.4 | 87.1 |
| 20 | 7 | 10 | 97.1 |
| 25 | 1 | 1.4 | 98.6 |
| 40 | 1 | 1.4 | 100 |
| **Total** | **70** | **100** | **100** |

**Nysmoke Frequency Table**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** | **Percent** | **Cumulative Percent** |
| 1 | 11 | 15.7 | 15.7 |
| 2 | 11 | 15.7 | 31.4 |
| 3 | 14 | 20 | 51.4 |
| 4 | 4 | 5.7 | 57.1 |
| 5 | 6 | 8.6 | 65.7 |
| 6 | 7 | 10 | 75.7 |
| 7 | 2 | 2.9 | 78.6 |
| 8 | 2 | 2.9 | 81.4 |
| 10 | 1 | 1.4 | 82.9 |
| 11 | 2 | 2.9 | 85.7 |
| 12 | 1 | 1.4 | 87.1 |
| 19 | 1 | 1.4 | 88.6 |
| 20 | 2 | 2.9 | 91.4 |
| 25 | 1 | 1.4 | 92.9 |
| 28 | 1 | 1.4 | 94.3 |
| 31 | 1 | 1.4 | 95.7 |
| 32 | 1 | 1.4 | 97.1 |
| 40 | 1 | 1.4 | 98.6 |
| 48 | 1 | 1.4 | 100 |
| **Total** | **70** | **100** | **100** |

**Age Smoke Frequency Table**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Frequency** | **Percent** | **Cumulative Percent** |
| 1 | 2 | 2.9 | 2.9 |
| 8 | 1 | 1.4 | 4.3 |
| 10 | 1 | 1.4 | 5.7 |
| 11 | 1 | 1.4 | 7.1 |
| 12 | 1 | 1.4 | 8.6 |
| 13 | 4 | 5.7 | 14.3 |
| 14 | 6 | 8.6 | 22.9 |
| 15 | 3 | 4.3 | 27.1 |
| 16 | 9 | 12.9 | 40 |
| 17 | 11 | 15.7 | 55.7 |
| 18 | 12 | 17.1 | 72.9 |
| 19 | 6 | 8.6 | 81.4 |
| 20 | 5 | 7.1 | 88.6 |
| 21 | 1 | 1.4 | 90 |
| 22 | 1 | 1.4 | 91.4 |
| 24 | 1 | 1.4 | 92.9 |
| 25 | 1 | 1.4 | 94.3 |
| 29 | 1 | 1.4 | 95.7 |
| 35 | 1 | 1.4 | 97.1 |
| 43 | 1 | 1.4 | 98.6 |
| 45 | 1 | 1.4 | 100 |
| **Total** | **70** | **100** | **100** |

**Data Visualization**

**Bar Charts**

|  |  |
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**Pie Charts**

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**Histograms**

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**Box Plots**

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**Descriptives**

**Central Tendencies**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Mean** | **Median** | **Mode** |
| **Age** | 25.8 | 21 | 20 |
| **Sex** | 1.2 | 1 | 1 |
| **Weight** | 62.50143 | 60 | 50 |
| **Height** | 8.523143 | 1.67 | 1.52 |
| **ncigar** | 6.928571 | 5 | 5 |
| **nysmoke** | 7.142857 | 3 | 3 |
| **agesmoke** | 17.55714 | 17 | 18 |

**Measure of Variance**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Range** | **Interquartile range** | **Variance** | **Standard Deviation** |
| **Age** | 50 | 4.75 | 110.0464 | 10.4903 |
| **Sex** | 1 | 0 | 0.1623188 | 0.4028881 |
| **Weight** | 70 | 15 | 174.5828 | 13.21298 |
| **Height** | 166.77 | 0.15 | 1053.661 | 32.46015 |
| **ncigar** | 40 | 6.5 | 50.67598 | 7.118707 |
| **nysmoke** | 47 | 4 | 90.53002 | 9.514727 |
| **agesmoke** | 44 | 4 | 43.23582 | 6.575395 |

**Summary of Descriptives**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Min** | **Q1** | **Median** | **Mean** | **Q3** | **Max** |
| **Age** | 18.00 | 20.00 | 21.00 | 25.80 | 24.75 | 68.00 |
| **Sex** | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 2.0 |
| **Weight** | 40.0 | 55.0 | 60.0 | 62.5 | 70.0 | 110.0 |
| **Height** | 1.230 | 1.600 | 1.670 | 8.523 | 1.750 | 168.000 |
| **ncigar** | 0.000 | 2.250 | 5.000 | 6.929 | 8.750 | 40.000 |
| **nysmoke** | 1.000 | 2.000 | 3.000 | 7.143 | 6.000 | 48.000 |
| **agesmoke** | 1.00 | 15.00 | 17.00 | 17.56 | 19.00 | 45.00 |