

## Spiny Lobster Length Frequencies from Commercial Biostatistical Sampling, 2000-2015

### The TTEST Procedure

Variable: length

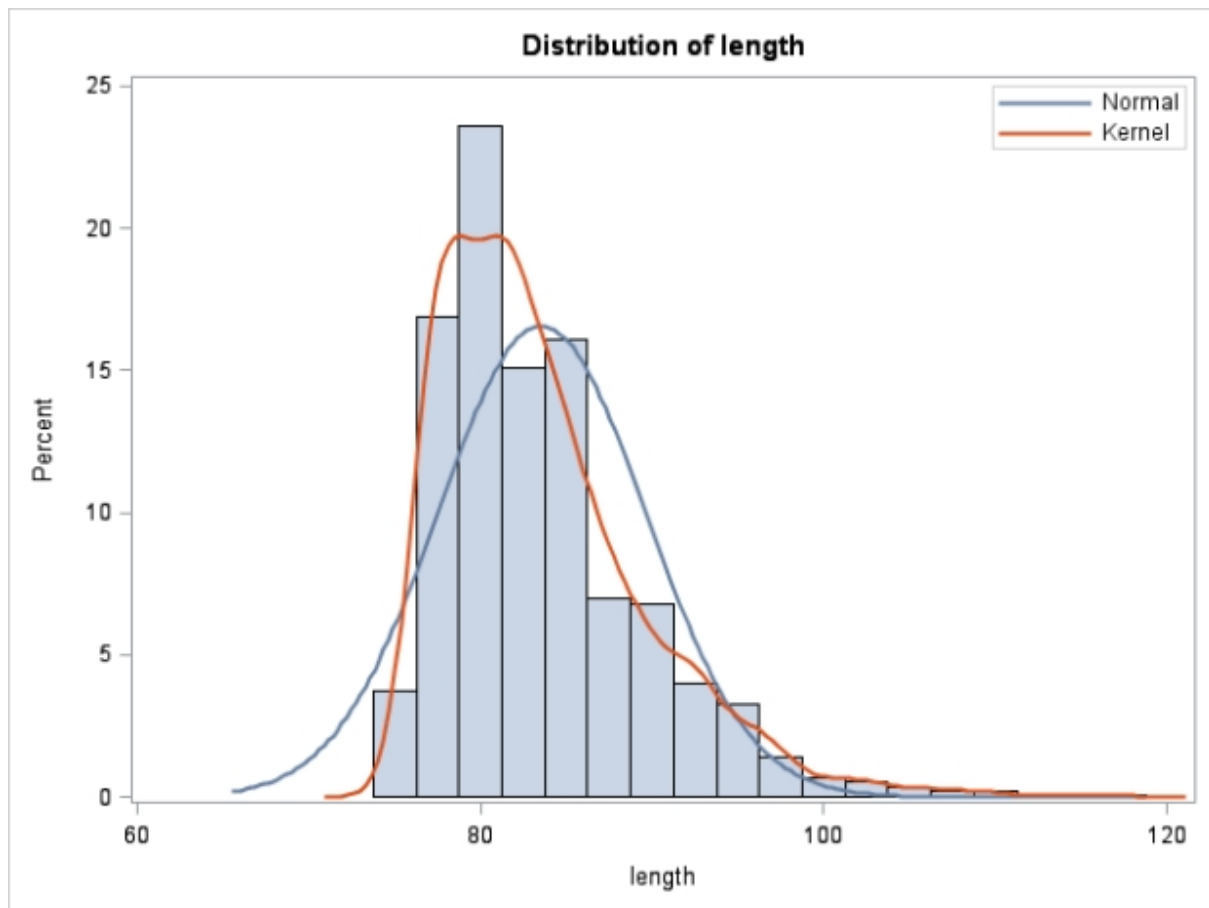
year=2000

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 2432 | 83.5576 | 6.0226  | 0.1221  | 74.0000 | 118.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 83.5576 | 83.3181 83.7970 | 6.0226  | 5.8580 6.1969  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 2431 | 684.20  | <.0001  |



Length in millimeters

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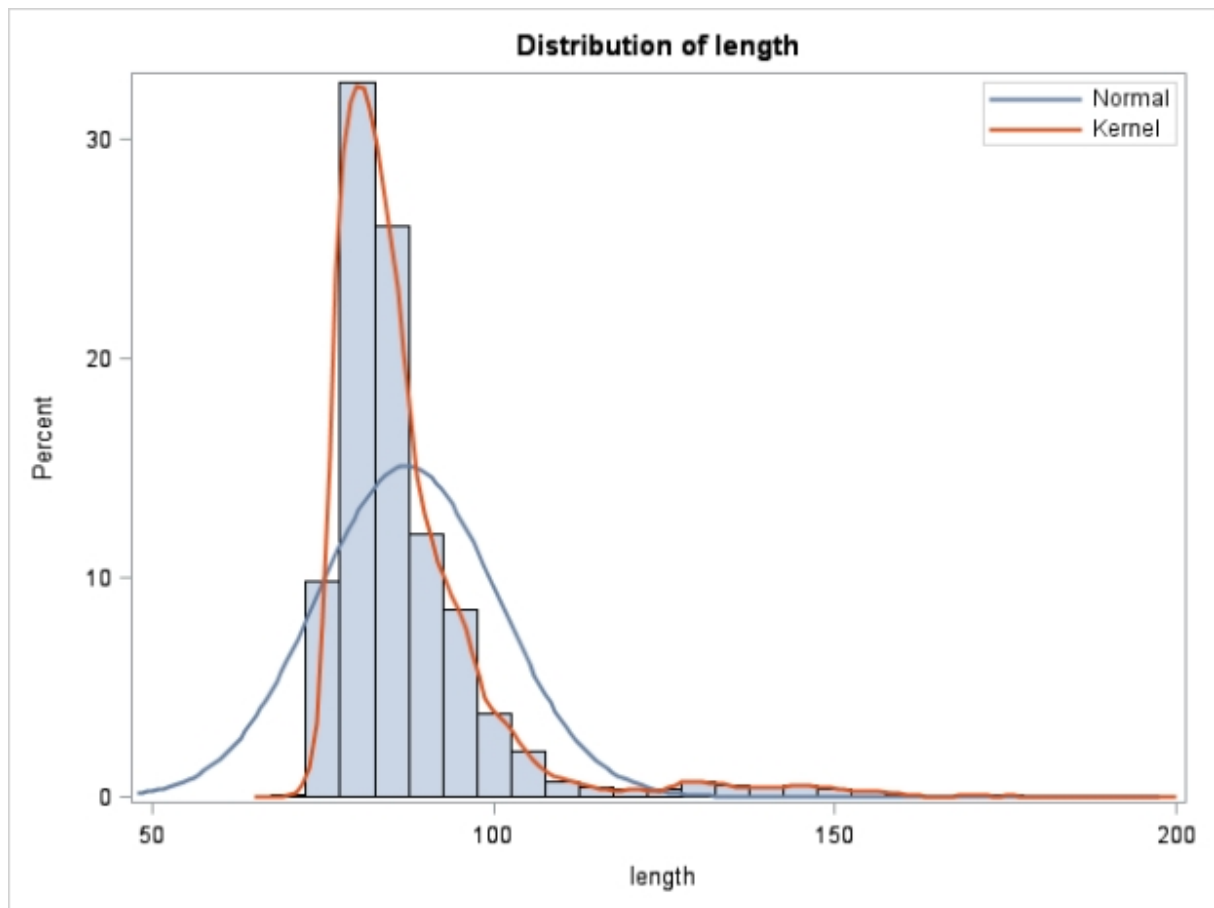
year=2001

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5130 | 87.3238 | 13.1972 | 0.1843  | 69.0000 | 196.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev  |
|---------|-----------------|---------|-----------------|
| 87.3238 | 86.9625 87.6850 | 13.1972 | 12.9467 13.4577 |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5129 | 473.92  | <.0001  |



Length in millimeters

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Variable: length

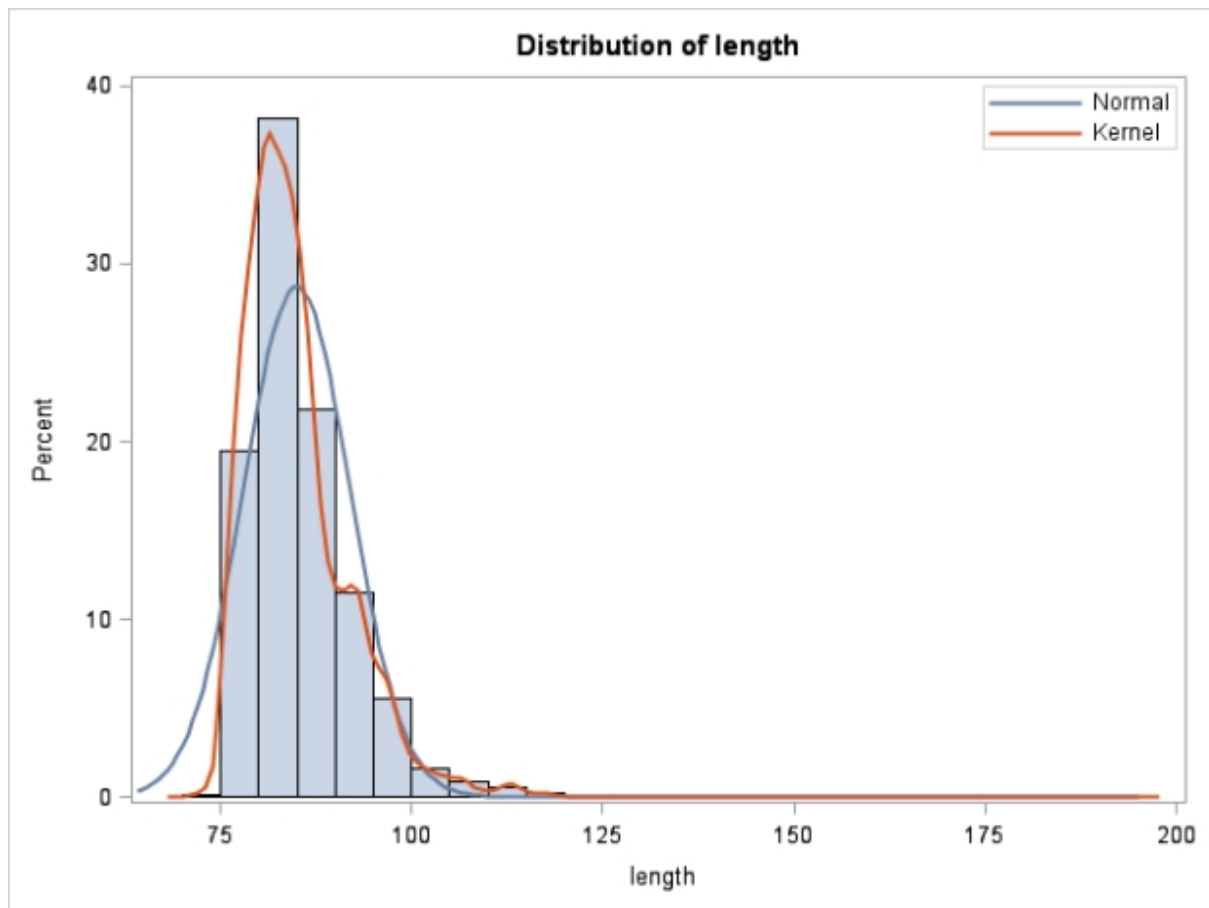
year=2002

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 4872 | 84.9436 | 6.9479  | 0.0995  | 72.0000 | 194.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 84.9436 | 84.7484 85.1387 | 6.9479  | 6.8126 7.0887  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 4871 | 853.36  | <.0001  |



Length in millimeters

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Variable: length

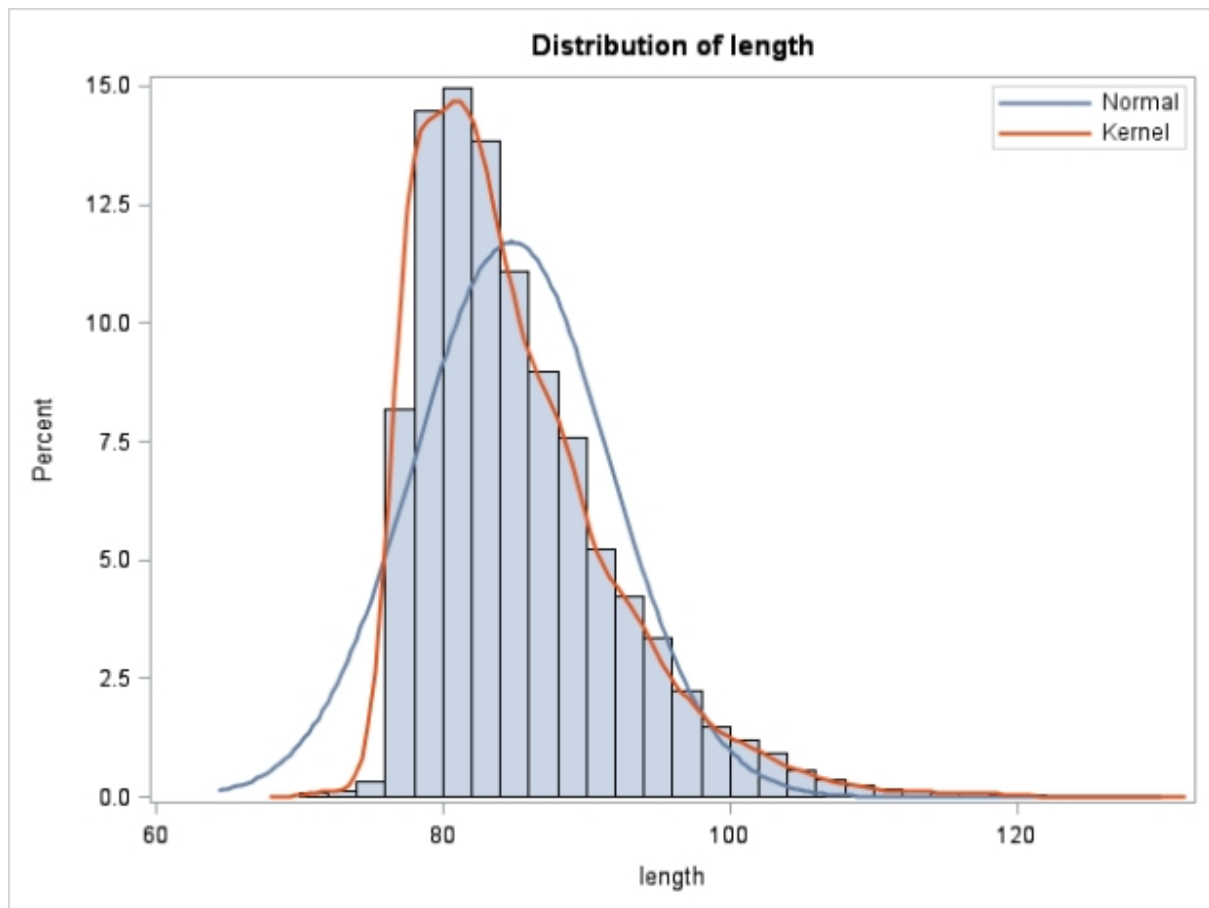
year=2003

Frequency: FREQUENC FREQUENCY

| N     | Mean    | Std Dev | Std Err | Minimum | Maximum |
|-------|---------|---------|---------|---------|---------|
| 10142 | 84.7835 | 6.8143  | 0.0677  | 70.7000 | 129.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 84.7835 | 84.6509 84.9161 | 6.8143  | 6.7218 6.9094  |

| DF    | t Value | Pr >  t |
|-------|---------|---------|
| 10141 | 1253.01 | <.0001  |



Length in millimeters

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Variable: length

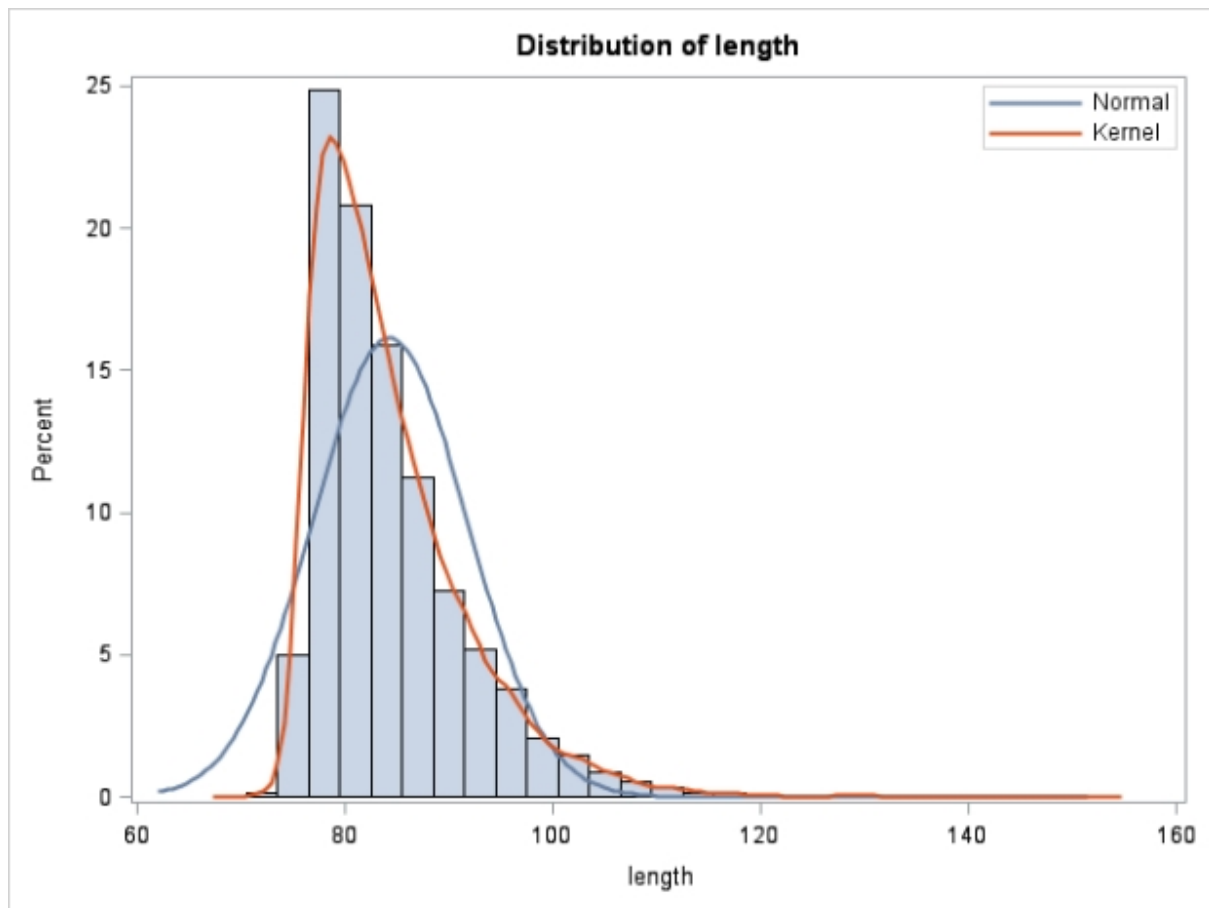
year=2004

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5468 | 84.2895 | 7.4126  | 0.1002  | 71.0000 | 151.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 84.2895 | 84.0929 84.4860 | 7.4126  | 7.2762 7.5542  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5467 | 840.85  | <.0001  |



Length in millimeters

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Variable: length

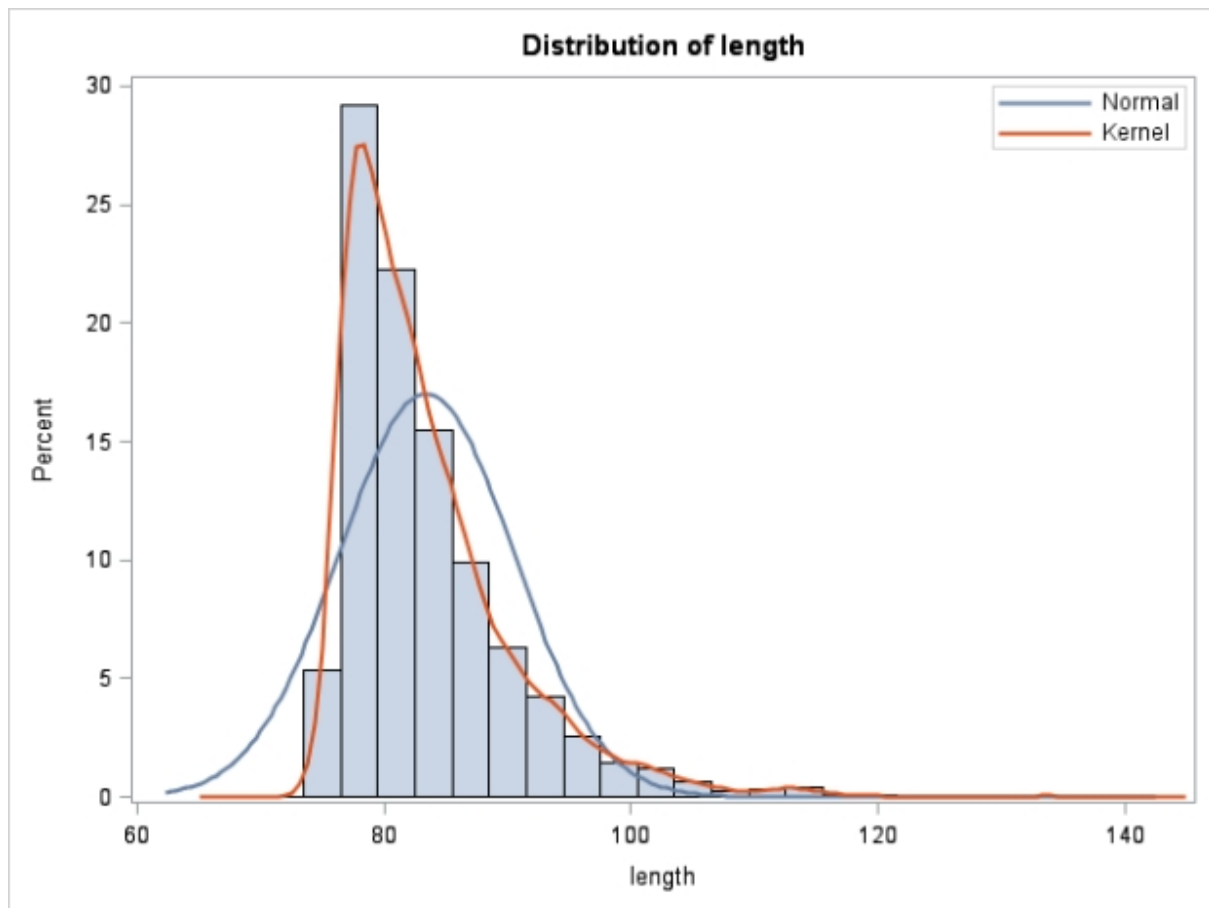
year=2005

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5660 | 83.4120 | 7.0259  | 0.0934  | 68.0000 | 142.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 83.4120 | 83.2289 83.5951 | 7.0259  | 6.8988 7.1578  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5659 | 893.17  | <.0001  |



Length in millimeters

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### The TTEST Procedure

Variable: length

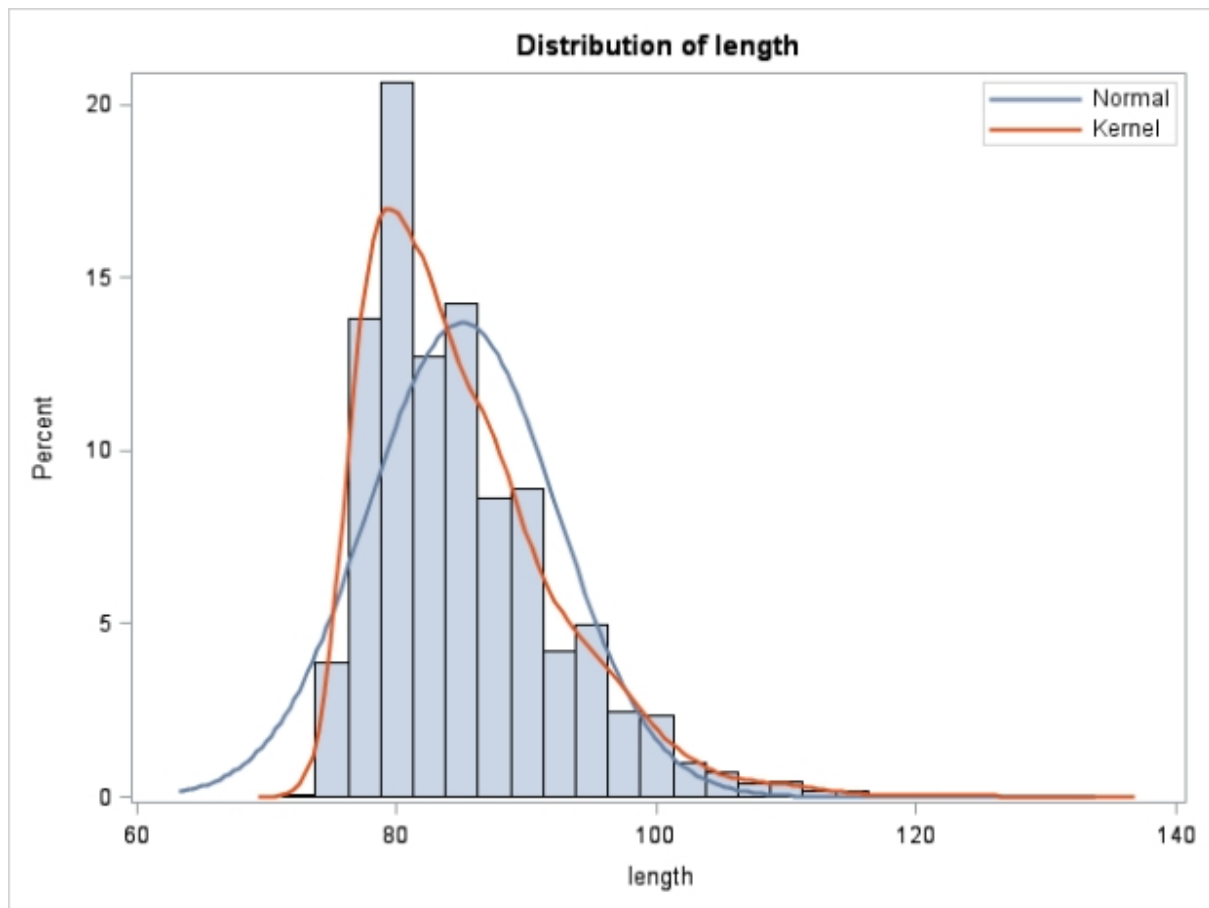
year=2006

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 4168 | 85.0319 | 7.2829  | 0.1128  | 73.0000 | 133.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 85.0319 | 84.8107 85.2531 | 7.2829  | 7.1298 7.4427  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 4167 | 753.78  | <.0001  |



Length in millimeters

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### The TTEST Procedure

Variable: length

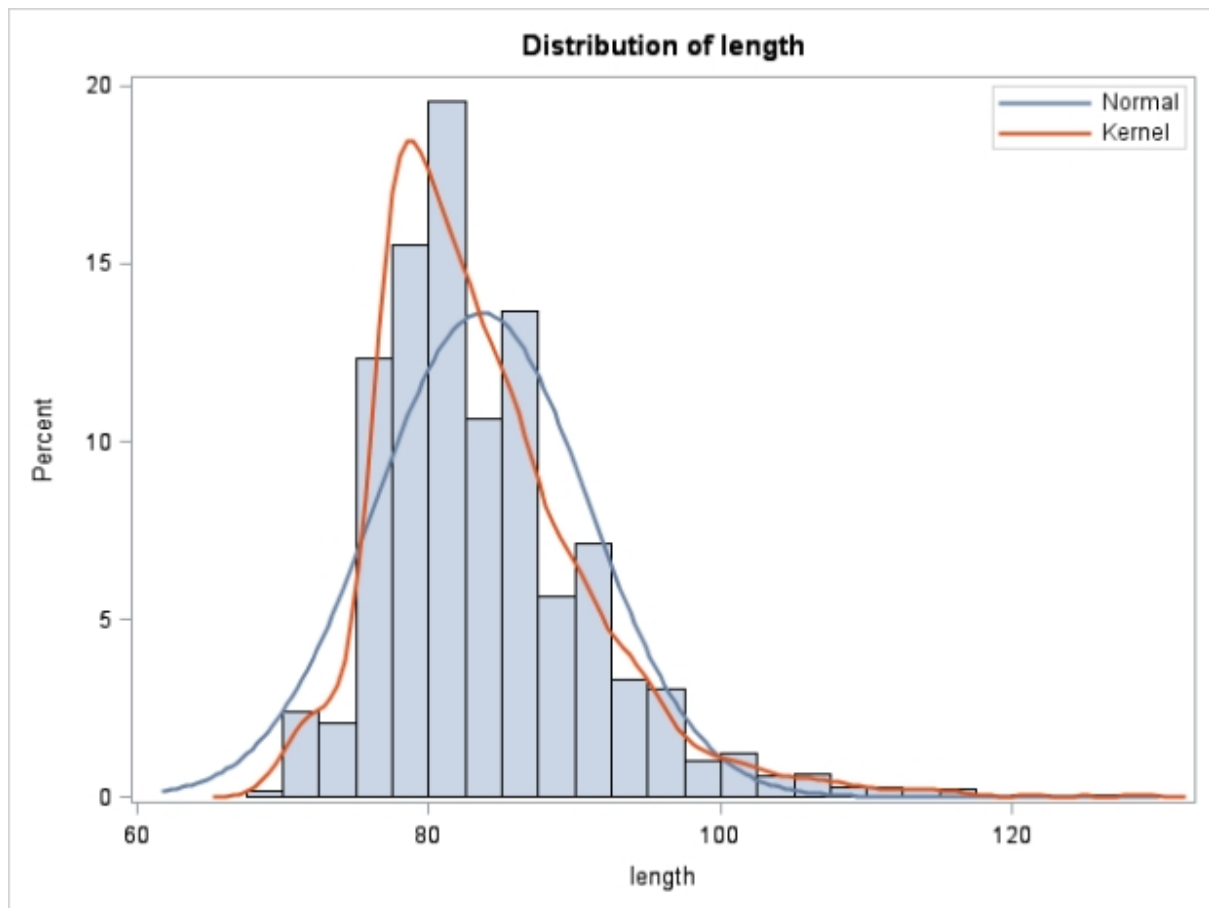
year=2007

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5061 | 83.6107 | 7.3222  | 0.1029  | 68.0000 | 129.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 83.6107 | 83.4090 83.8125 | 7.3222  | 7.1823 7.4677  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5060 | 812.34  | <.0001  |



Length in millimeters



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### The TTEST Procedure

Variable: length

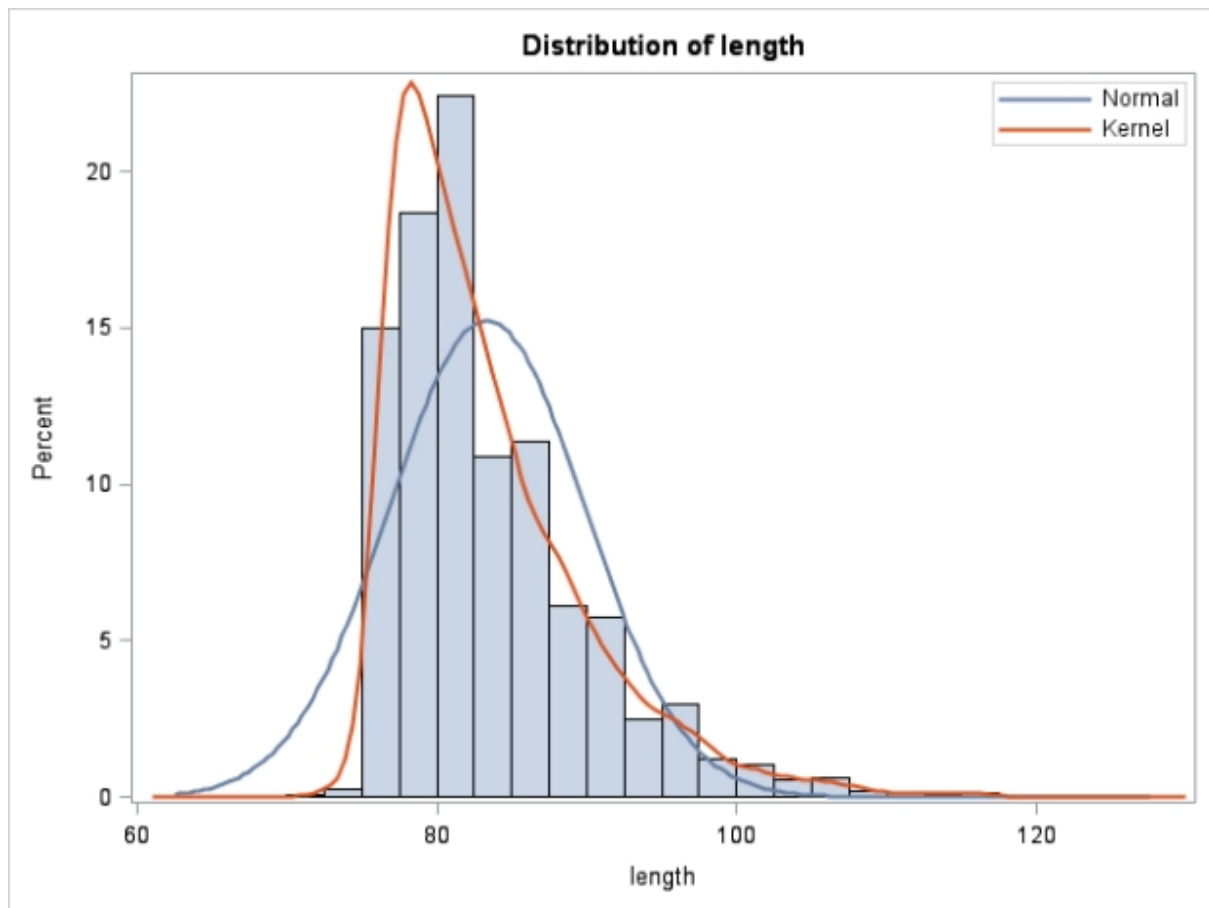
year=2008

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 6502 | 83.3285 | 6.5462  | 0.0812  | 64.0000 | 127.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 83.3285 | 83.1694 83.4877 | 6.5462  | 6.4356 6.6607  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 6501 | 1026.43 | <.0001  |



Length in millimeters

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### The TTEST Procedure

Variable: length

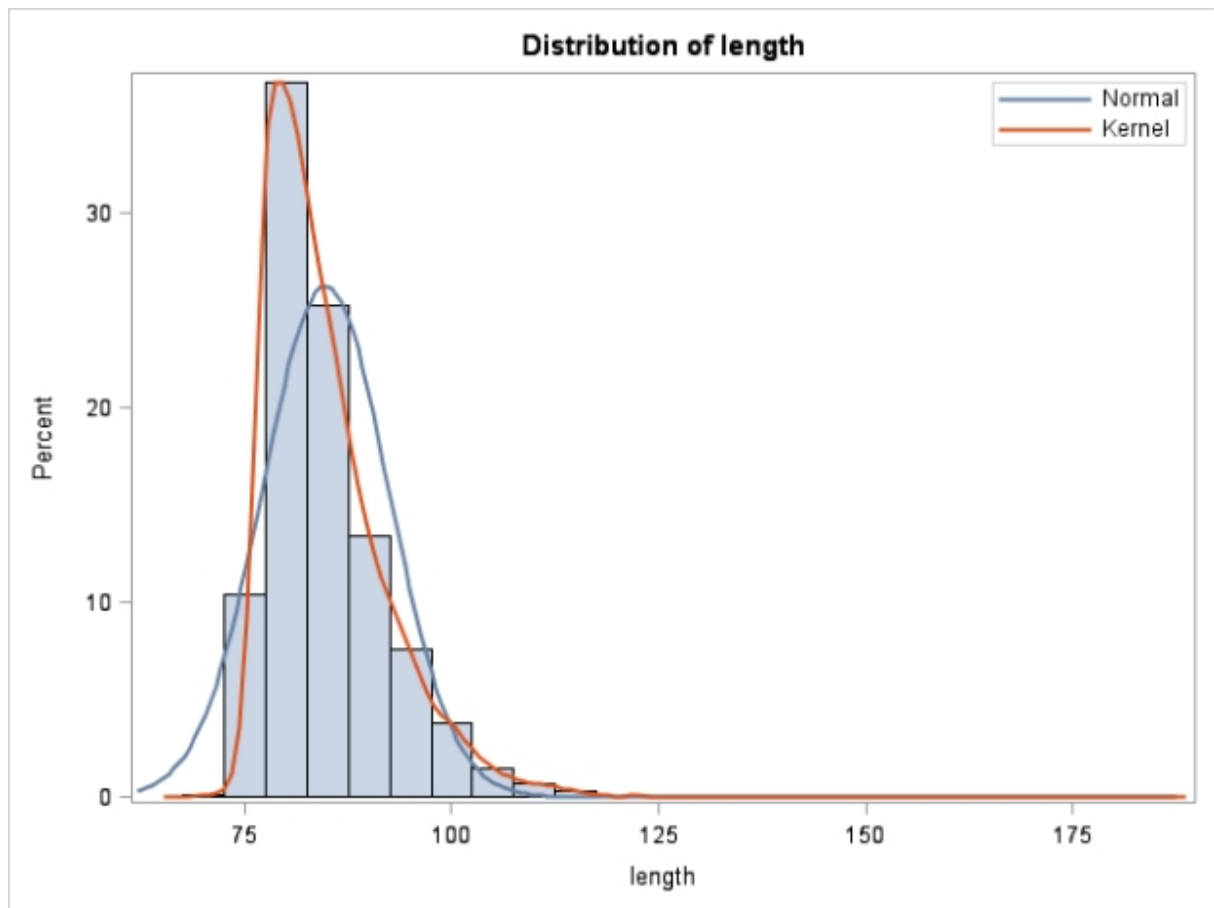
year=2009

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5139 | 84.7696 | 7.5881  | 0.1059  | 68.8000 | 185.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 84.7696 | 84.5620 84.9771 | 7.5881  | 7.4442 7.7377  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5138 | 800.84  | <.0001  |



Length in millimeters

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### The TTEST Procedure

Variable: length

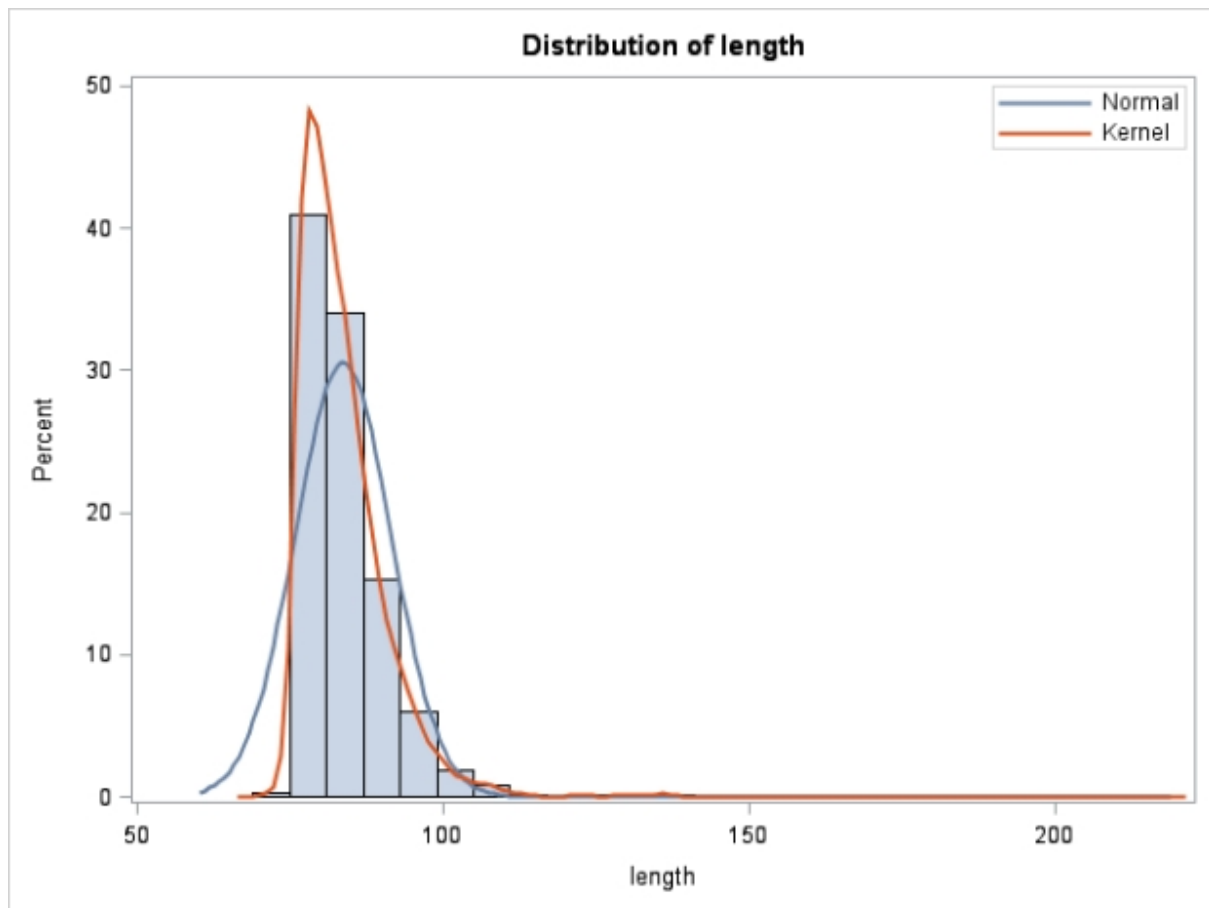
year=2010

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 4973 | 83.7024 | 7.8339  | 0.1111  | 70.0000 | 218.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 83.7024 | 83.4846 83.9202 | 7.8339  | 7.6829 7.9910  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 4972 | 753.47  | <.0001  |



Length in millimeters

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### The TTEST Procedure

Variable: length

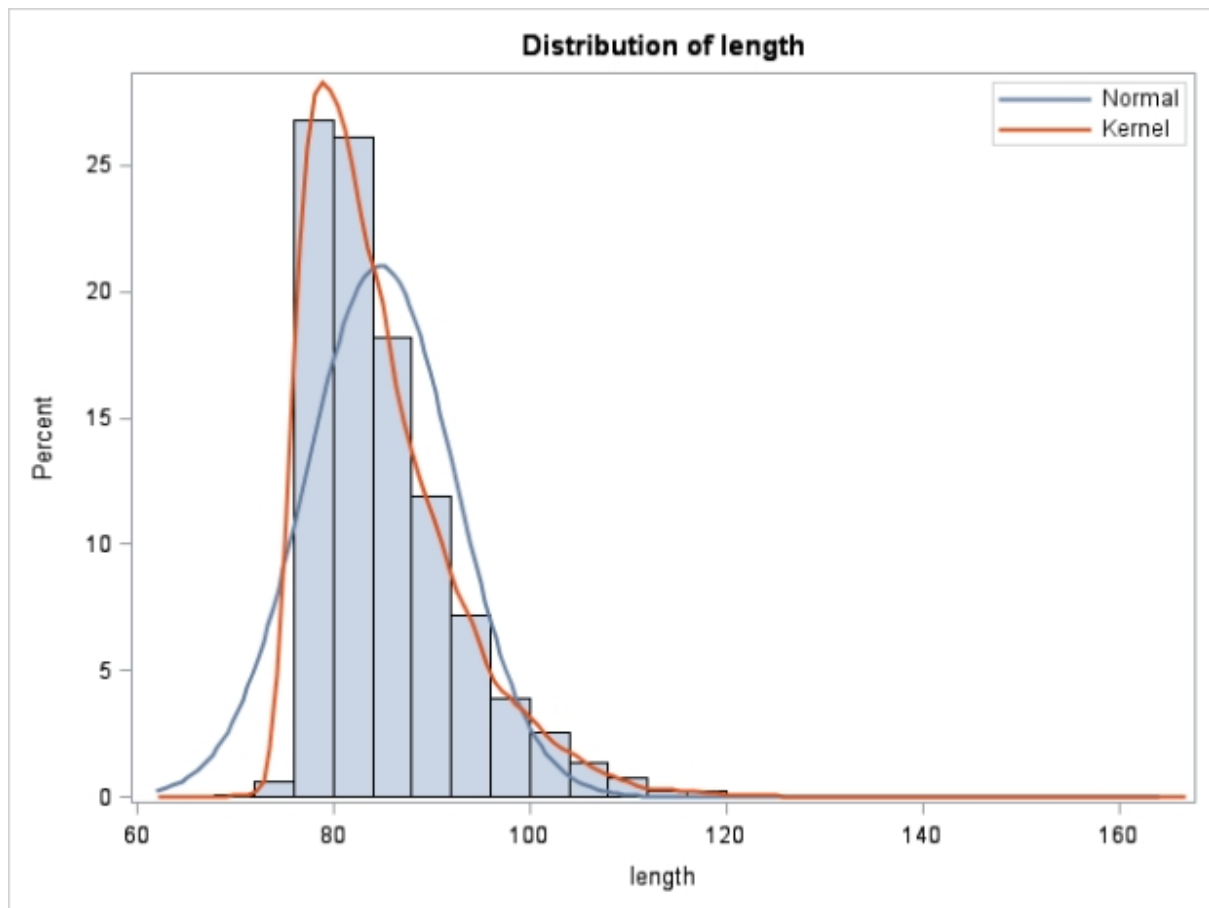
year=2011

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5422 | 84.7367 | 7.5795  | 0.1029  | 66.0000 | 163.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 84.7367 | 84.5349 84.9385 | 7.5795  | 7.4395 7.7249  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5421 | 823.21  | <.0001  |



Length in millimeters

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### The TTEST Procedure

Variable: length

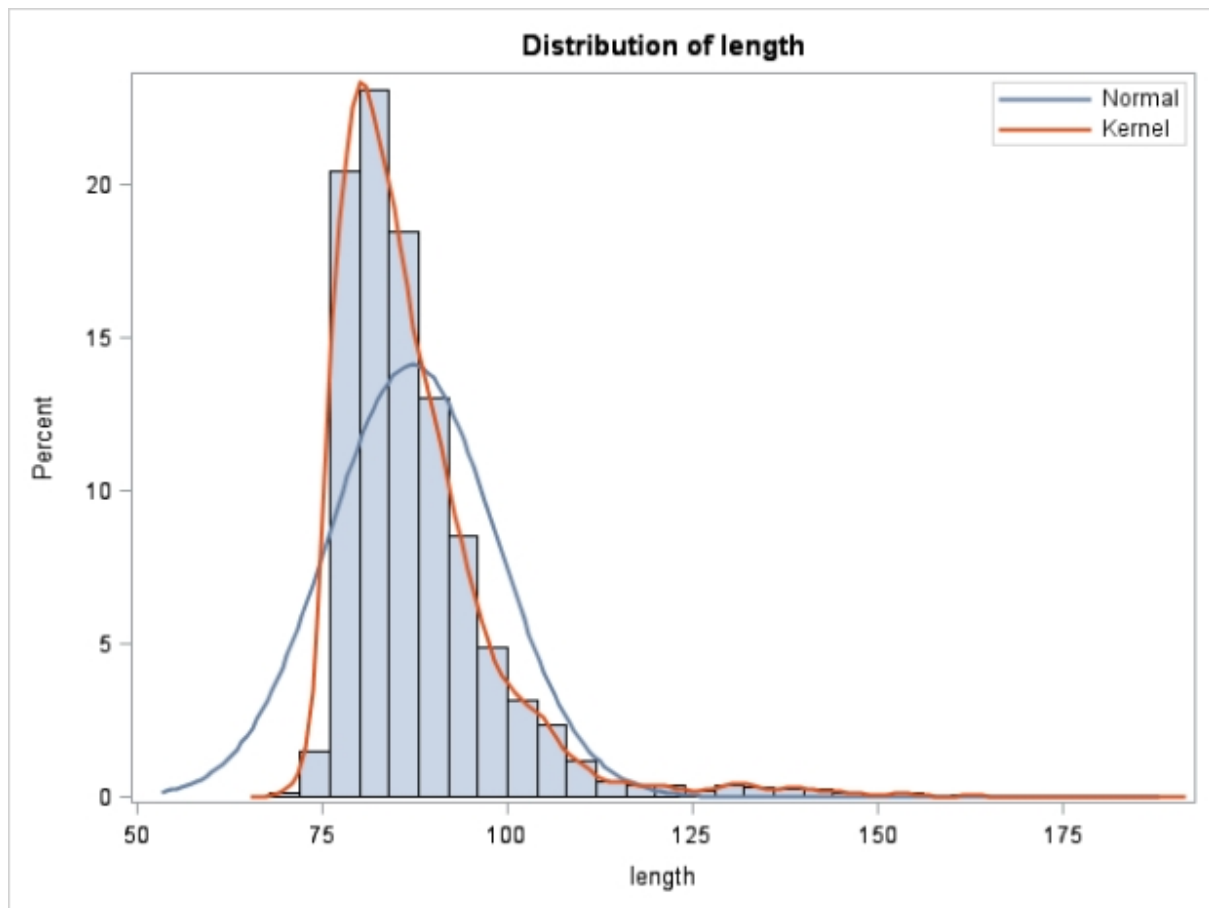
year=2012

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 6133 | 87.1585 | 11.3001 | 0.1443  | 70.0000 | 187.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev  |
|---------|-----------------|---------|-----------------|
| 87.1585 | 86.8756 87.4414 | 11.3001 | 11.1036 11.5037 |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 6132 | 604.04  | <.0001  |



Length in millimeters

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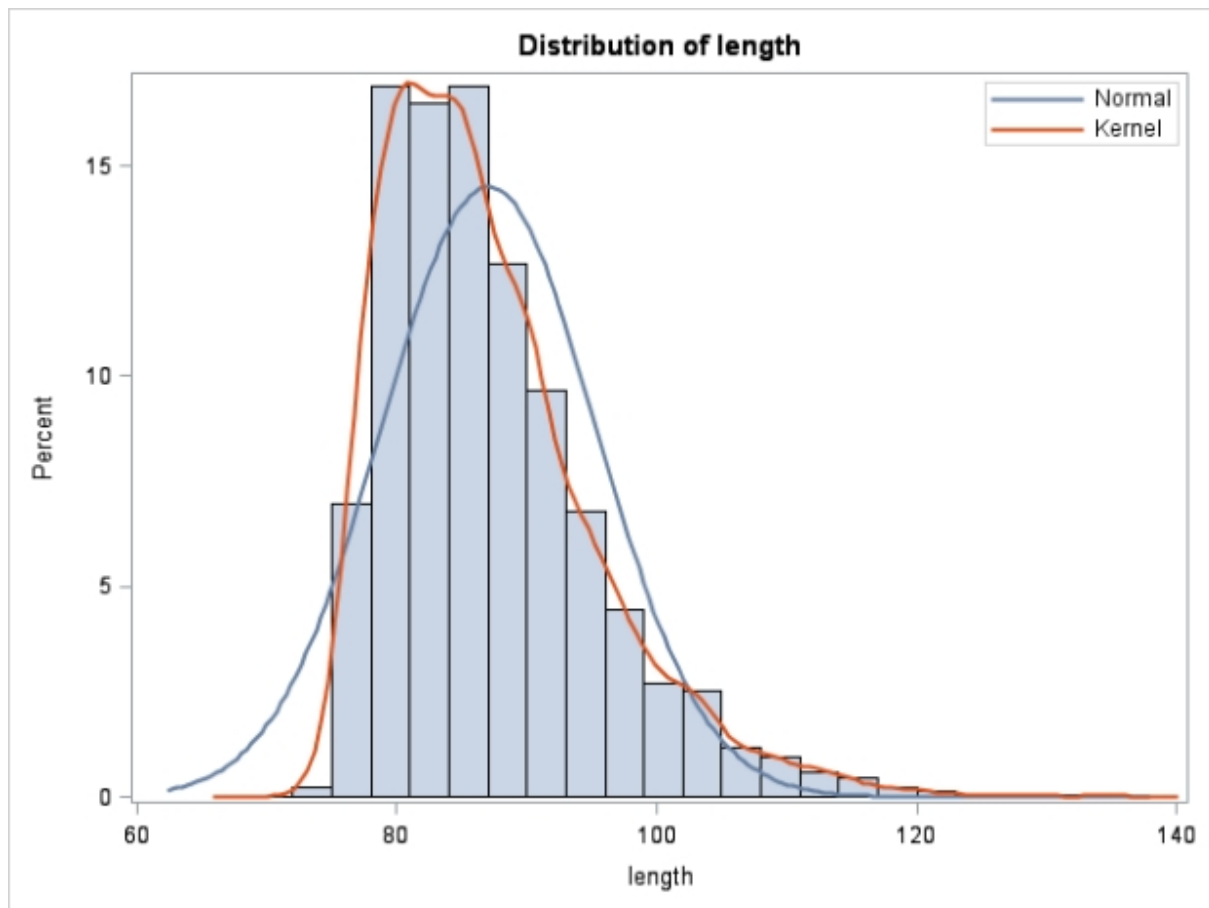
year=2013

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 4609 | 87.0466 | 8.2493  | 0.1215  | 70.0000 | 136.0   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 87.0466 | 86.8084 87.2848 | 8.2493  | 8.0843 8.4213  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 4608 | 716.37  | <.0001  |



Length in millimeters

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Variable: length

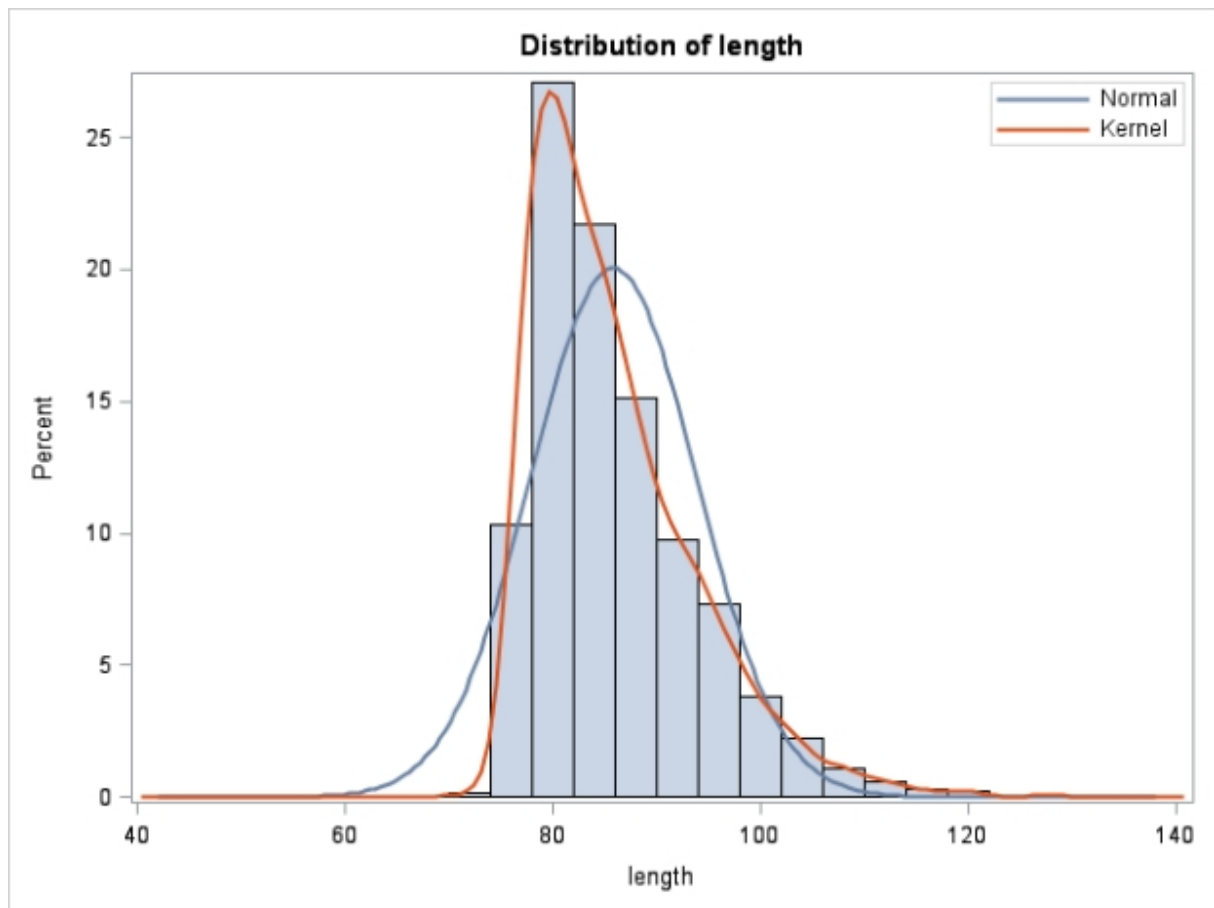
year=2014

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5864 | 85.8167 | 7.9555  | 0.1039  | 44.0000 | 137.1   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 85.8167 | 85.6130 86.0203 | 7.9555  | 7.8141 8.1022  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5863 | 826.04  | <.0001  |



Length in millimeters

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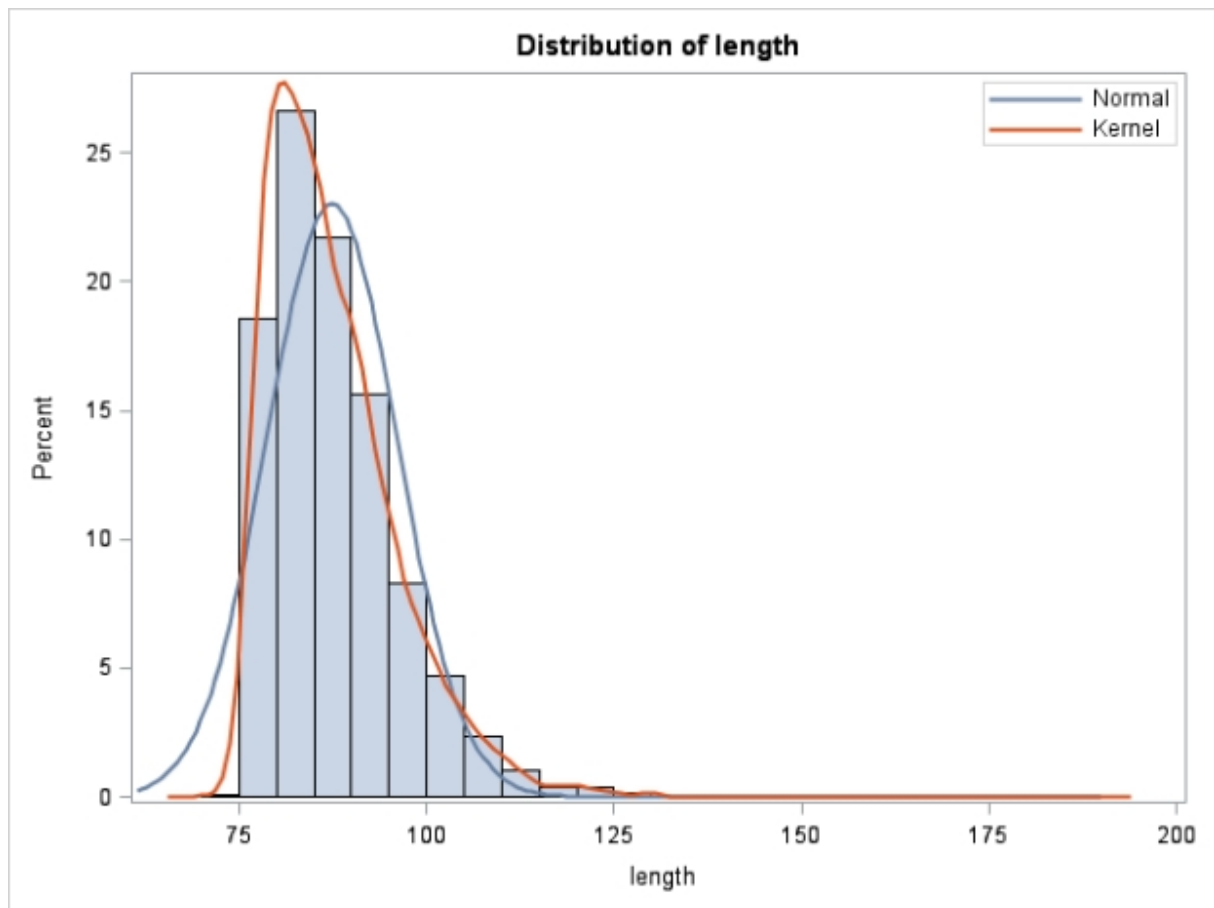
year=2015

Frequency: FREQUENC FREQUENCY

| N    | Mean    | Std Dev | Std Err | Minimum | Maximum |
|------|---------|---------|---------|---------|---------|
| 5538 | 87.3708 | 8.6624  | 0.1164  | 70.0000 | 189.2   |

| Mean    | 95% CL Mean     | Std Dev | 95% CL Std Dev |
|---------|-----------------|---------|----------------|
| 87.3708 | 87.1426 87.5989 | 8.6624  | 8.5040 8.8268  |

| DF   | t Value | Pr >  t |
|------|---------|---------|
| 5537 | 750.59  | <.0001  |



Length in millimeters