

Table 1. Lengths in micra and arm ratios of inbred KYS chromosomes and those of a homozygous 4-10 translocation in comparison with Longley's data.

| Normal KYS | | | | | Homozygous 4-10 translocation | | | | | Chromosome Atlas (after Longley) | | |
|------------|--------|--------|--------------|-----------|-------------------------------|--------|--------|--------------|-----------|-------------------------------------|--------------|-----------|
| Chrom. | S | L | Total Length | Arm Ratio | Chrom. | S | L | Total Length | Arm Ratio | Chrom. | Total Length | Arm Ratio |
| 1 | 40.17 | 45.73 | 85.90 | 1.1:1 | 1 | 40.58 | 45.90 | 84.48 | 1.1:1 | 1 | 82.40 | 1.3:1 |
| 2 | 31.52 | 34.46 | 67.98 | 1.2:1 | 2 | 31.06 | 39.66 | 70.72 | 1.3:1 | 2 | 66.50 | 1.25:1 |
| 3 | 20.39 | 40.17 | 60.56 | 2.0:1 | 3 | 21.08 | 41.82 | 62.90 | 2.0:1 | 3 | 62.00 | 2.0:1 |
| 4 | 22.25 | 35.23 | 57.48 | 1.6:1 | 4 ¹⁰ | 12.24 | 22.10* | 34.34 | 1.8:1 | 4 | 58.78 | 1.6:1 |
| 5 | 29.05 | 31.52 | 60.57 | 1.1:1 | 5 | 27.08 | 33.54 | 60.62 | 1.2:1 | 5 | 59.82 | 1.1:1 |
| 6 | 11.74 | 36.46 | 48.20 | 3.1:1 | 6 | 11.78 | 34.68 | 46.46 | 2.9:1 | 6 | 48.73 | 3.1:1 |
| 7 | 11.12 | 33.37 | 44.49 | 3.0:1 | 7 | 13.14 | 32.86 | 46.00 | 2.5:1 | 7 | 46.78 | 2.8:1 |
| 8 | 11.12 | 35.23 | 46.35 | 3.2:1 | 8 | 10.66 | 34.00 | 44.66 | 3.2:1 | 8 | 47.48 | 3.2:1 |
| 9 | 14.21 | 27.19 | 41.40 | 1.9:1 | 9 | 12.46 | 25.16 | 37.62 | 2.0:1 | 9 | 43.24 | 1.8:1 |
| 10 | 9.27 | 25.96 | 35.23 | 2.8:1 | 10 ⁴ | 11.14 | 45.78 | 57.22 | 4.0:1 | 10 | 36.93 | 2.8:1 |
| Σ | 200.84 | 347.32 | 548.16 | --- | Σ | 191.52 | 355.50 | 547.02 | --- | Σ | 552.66 | --- |

(*) It should be noted that the long arm of the 4¹⁰ chromosome is the short arm of chromosome 4.