

YARN REQUIREMENTS CALCULATION

Project: Tea Towels in 8/2

WARP CALCULATION

Fiber(s): 8/2 Cotton

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| Finished length of ONE article (include amount for hems): | 36" | Cotton, Linen, Silk, Rayon, Wool? |
| Quantity to weave: | 4 | Warp: Cotton |
| Fringe: | 0" | (1 end of 1 article—assumes 1st & last fringe from loom waste) |
| Total fringe: | 0" | |
| Warp length required for Sampling: | 18" | |
| ¹ Take-up: 10% | 16.20" | (Not applicable to fringe) |
| ² Shrinkage: 10% | 16.20" | (Applies to fringe; included in length to weave) |
| Loom waste: | 18.00" | |

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| Warp length: | 5.90 yds |
| Length to weave each article: | 44 " measured under tension |
| (includes amount for hem): | 40 " measured when relaxed |

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| Finished width of article: | 12.00" |
| ² Shrinkage: 10% | 1.20" |
| Draw-in: | 0.50" |

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| Width in reed: | 13.7 " |
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| Warp Sett: | 24 epi |
| Extra ends (selvedge, floating, etc.): | 0 |
| Yards per pound: | 3,360 ypp |

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| Number of warp ends: | 329 |
| Warp required for one article: | 2.31 ozs |

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| TOTAL WARP REQUIRED: | 9.24 ozs | 1,940 yds | Yds per Spool: | 82 (1" sections) |
| | | | | 41 (2" sections) |

WEFT CALCULATION

Fiber(s): 8/2 Cotton

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| Length of one pick: | 13.20" | Cotton, Linen, Silk, Rayon, Wool? |
| Picks per inch: | 16 ppi | Weft: cotton |
| Take-up: 5% | 0.66" | |
| Yards per pound: | 3,360 ypp | Picks per item: 576 |

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| Weft required for one article: | 1.17 ozs |
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| TOTAL WEFT REQUIRED: | 4.69 ozs | 986 yds |
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MATERIALS COST

| | lbs | \$ per lb | |
|-------|------|-----------|---------|
| Warp: | 0.58 | \$ 9.00 | \$ 5.20 |
| Weft: | 0.29 | \$ 9.00 | \$ 2.64 |

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| TOTAL YARN REQUIRED: | 0.87 lbs | PROJECT COST: | \$7.84 | UNIT COST: | \$1.96 |
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Sett Formula (EPI & PPI)—Ashenhurst method

| Plain weave maximum epi: | 27 | Plain weave maximum ppi: | 27 |
|-----------------------------|----|-----------------------------|----|
| Plain weave less dense epi: | 22 | Plain weave less dense ppi: | 22 |
| 2/2 Twill maximum epi: | 36 | 2/2 Twill maximum ppi: | 36 |
| 2/2 Twill less dense epi: | 29 | 2/2 Twill less dense ppi: | 29 |

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| Average Shrinkage: | Wool: | 15% |
| | Cotton: | 10% |
| | Linen: | 10% |