

Project Worksheet

Name: _____

Date Started: _____ Date Finished: _____

1. PROJECT DESCRIPTION

What is being woven?	
How many?	
Weave Structure?	
Source/Inspiration?	

2. PROJECT DIMENSIONS

	After Finishing*	Before Finishing*
Width		
Woven length		
PLUS Hem or fringe length		
= Total woven length		

* The difference between before and after measurements is due to shrinkage.

3. WARP DESCRIPTION

Material	
Ends per inch (epi)	
Width in reed	
Total warp ends	
Floating selvages	
Sley/Reed	
Source/Cost	

4. WEFT DESCRIPTION

Material	
Picks per inch	
Source/Cost	

5. CALCULATIONS

Calculation #1: Total Number of Warp Ends

Ends per Inch (epi)		This is the total number of individual threads per inch across the piece(s) being woven
X Width in the reed		The is the width across the piece as measured in the reed before weaving (i.e., before draw-in)
= Total Number of warp ends		The product of epi and width in reed is the total number of warp threads in the piece(s)

Calculation #2: Warp Length

Total Article Length, in inches		This is the total length of one piece, including the hem, fringe, or other finishing technique [NOTE: 12" REFLECTS 1" HEMS ON EACH END; ALLOW MORE FOR KNOTTED FRINGE.]
X Number of Articles		The total number of pieces desired from the warp
= Subtotal of warp length, in inches		The product of the items above gives the amount of warp needed for the number of articles desired BEFORE accounting for any loss of warp length
+ Take-up		This is an adjustment to account for the lost warp length that occurs during weaving. Some warp loss is caused by the take in deflection of each warp end that happens when the weft is inserted, and some happens when the warp under tension on the loom relaxes once removed from the loom. Take-up depends on the weave structure, but a rule of thumb for plain weave and twill is to increase the total by 10%, rounded UP to the nearest inch.
= Total Woven Length		This is the total amount of warp that is needed to weave the body of the piece(s)
+ Loom Waste, in inches		Loom waste is warp that cannot be woven. Some warp is lost securing the warp to the loom and some is lost in the castle. Waste depends on the depth of the loom and how generous the weaver makes their ties at the front and back of the loom.
= Warp Length, inches		Woven length plus waste for warp length in inches
= Warp Length, yds		Divide by 36" for warp length in yds (round UP to the nearest half yard)
= Total length of Warp yarn needed		Multiply the length in yards by the total number of warp ends to determine the total length of warp yarn needed for the project.

Calculation #3: Weft Length

Width of woven pieces		This is the total width of the woven pieces before finishing.
X Take-up		This is the extra amount of weft that is needed to weave the body of the piece(s) due to take-up. For this project we estimate 10% take-up, so multiply by 1.1.
X PPI (Picks per inch)		This is the desired number of weft threads per inch of woven cloth. See the weft description above.
= Subtotal of weft length needed for 1 inch of woven cloth		The product of the three items above gives the amount of weft needed for one inch of woven cloth
X Length of each woven piece		This is the length in inches of woven cloth in each piece before finishing. This does NOT include fringe.
X Number of Articles		The total number of pieces being woven
= Weft Length in inches		This is the estimated total weft length in inches.
= Weft Length in yards		Divide by 36 for weft length in yards.

NOTE: All calculations are estimates only. The actual yarn lengths required will be impacted by several factors including the actual PPI based on your beat while weaving, the take-up in your weaving, and the shrinkage rate for the fibers you use. It is always a good idea to weave a sample piece first, measure on the loom, after cutting off the loom, and after wet finishing to get the actual yarn amounts used/needed to generate the desired dimensions in your finished cloth.