

The Sixteens 2018

Project: Diversified Plain Weave
Date: October 2018
Intended Use: Clothing (Jacket)

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Thin Warp Yarn: Pink 10/2 non-mercerized Mill End Cotton from my stash (4200 ypp)
Thick Warp Yarn: Navy 8/8 non-mercerized Maurice Brassard Cotton from the Woolery (840 ypp)
Thin Weft Yarn: Navy 10/2 non-mercerized Mill End Cotton from my stash (4200 ypp)
Thick Weft Yarn: Rose Pale (pink) non-mercerized Maurice Brassard Cotton from the Woolery (840 ypp)

Reed: 12 dent **Sleyed:** 2 per Dent (8 dent sleyed 3 per dent would have been preferred)
Sett: 24 EPI and 15 PPI (24ppi was preferred & possible only on a narrow sample)
Warps were Beamed Separately
Width on Loom: 21 inches (336 ends of 10/2 & 168 ends of 8/8)
Width after Finishing: 18.25 inches
Length: 270 picks (effectively 15 ppi) = 18.0" became 15.25" inches after finishing (effectively 17.7 ppi)

Loom: AVL 40-Shaft Technical Dobby Loom with Compu-Dobby 4.5 & 2 Warp Beams
Software: Fiberworks PCW (Windows) & ProWeave

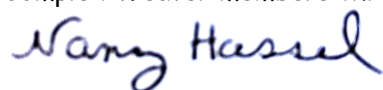
Comments: The 14 pattern blocks afforded by Diversified Plain Weave (DPW) on 16 shafts created the opportunity to render a favorite knitting machine pattern in woven cloth. Many of the old knitting machines used 12-hole or 24-hole punch cards for pattern input. A 24-stitch symmetrical knitting machine pattern can be directly adapted to a 13-block point profile. I used a favorite Regine Faust pattern and converted it to 14 blocks. Evelyn Oldroyd recommended that the thin yarn be about one fifth the size of the thick yarn. The 10/2 cotton is 4200 yards per pound while the 8/8 cotton is 840 yards per pound, yielding a ratio of $4200/840 = 5.0$. Klara Cherepov recommended that the overall sett be based upon the sett of the thick yarn. The recommended sett for 8/8 cotton is 8 epi and there are 2 thin threads per thick thread so the overall sett was 24 epi. Madelyn Van der Hoogt discussed the 2 methods for threading (12P21P vs 12P12P) and I decided to use the more traditional 12P21P threading. These design decisions were verified by a small sample before I beamed the real cloth. Edge weights (a kludged temple) were used to minimize draw-in. Without floating selvages, the edges would have been incredibly messy.

Finishing of Samples: Machine washed & dried (regular cycle)

References:

- A 13-block profile draft was derived from *American Indian designs adapted to knitting* by Regine Faust, (Regine Studio, 1980, 225 pages, ASIN: B0007C3PGW); pattern on page 108, cards 154 & 155
- *Diversified Plain Weave (Paperback, 1972, 32 pages)* by Klara Cherepov
- Evelyn Oldroyd discussed Diversified Plain Weave in her 19-September-2009 blog <https://evelynoldroyd.wordpress.com/page/22/>
- Madelyn Van der Hoogt, "Thick 'N Thin Again" *Weavers* #36 pp 58-61 & *Weavers* #37 p2

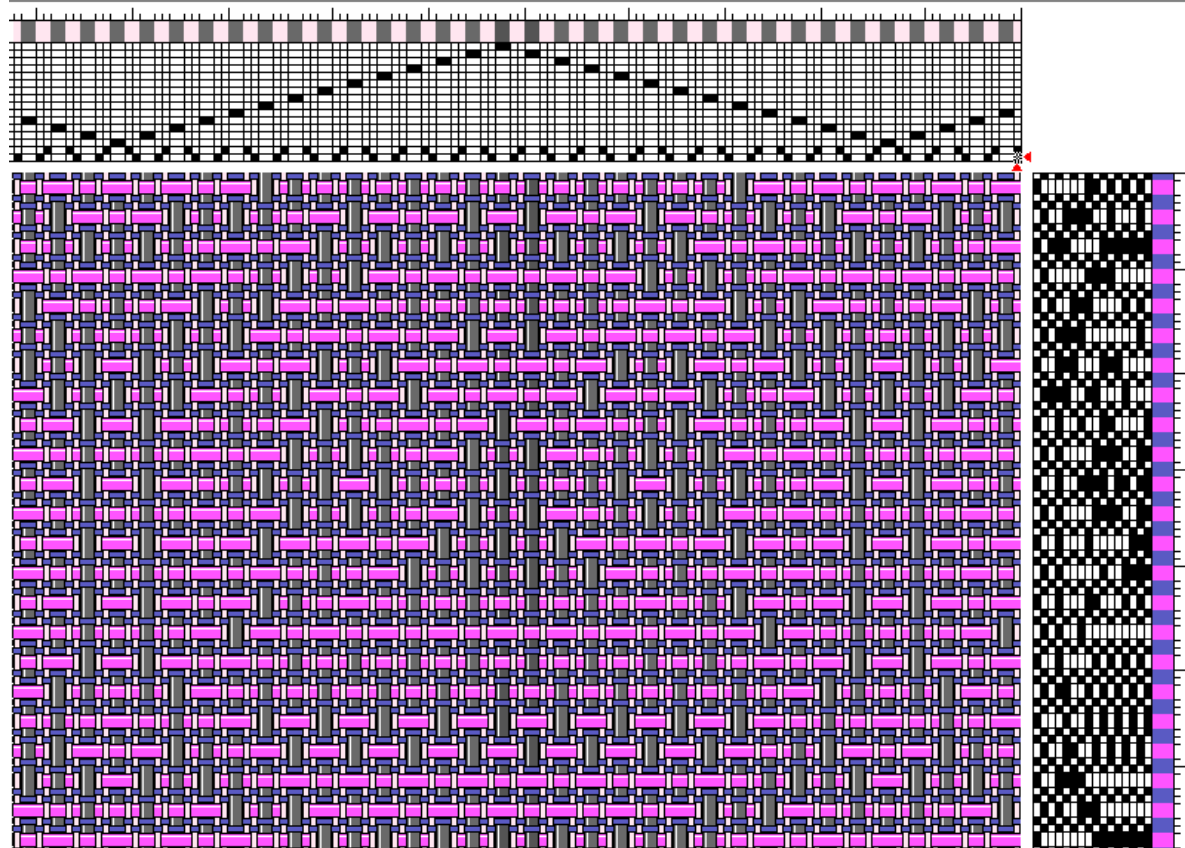
I, Nancy Hassel, agree to have this sample and corresponding information shared electronically with other Complex Weaver members through the Complex Weaver Library. 14-Oct-2018



Profile Draft:



Close-Up of Partial Draft:



Full Draft (5 repeats wide by 2 repeats high):

