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**THE JANET PHILLIPS MASTER CLASS**  
[www.janetphillips-weaving.co.uk](http://www.janetphillips-weaving.co.uk)

### **Research findings of WEAVERSBAZAAR Worsted spun yarn – 18/2nm, 9.5/2nm, and 5/2nm**

Five students took part in the research. One student researched 18/2nm yarn, weaving it in Plain Weave and 2/2 Twill. Two students researched 9.5/2 nm worsted yarn, weaving it in Plain Weave and 2/2 Twill. The fourth student wove the 5/2nm yarn as Plain Weave. The fifth student took both 9.5/2nm and 5/2nm yarns and wove them together in Plain Weave. The aim being to establish suitable setts and experience the difference in handle that the various setts produced.

All participants really liked working with the yarn, which was easy to use. No breaks occurred in the warp. Dyed well with Acid dyes.

The yarns are all strong, slightly hairy and very lustrous. They have a balanced twist, which is quite high. Scissors were needed to cut the yarn as it was difficult to break with the hands.

There was normal take up during weaving on both Plain Weave and Twill setts (about 10%) but virtually no shrinkage on finishing.

Finishing was done both by hand washing, Cool rinse, No spin-drying, but ironed dry. 'Crazing' effect did occur on the Plain Weave cloths no matter how tight the sett was. No 'crazing' occurred on the 2/2 Twill samples. The samples softened slightly on washing.

The overall conclusion was that they were all beautiful yarns for furnishing and interior fabrics as well as coating and suiting fabrics for clothing, although it would not be suitable for clothing worn next to the skin. The crispness and sheen of the finished cloths meant that weave structures were very clearly visible. It would be an excellent yarn for warp dominant fabrics or weft dominant fabrics like floor rugs. It is a type of yarn that is not easily available elsewhere.

## WEAVERSBAZAAR PROJECT

**RESULTS:** 18/2nm (2/16wc) – 9000m/kilo (4480yards/lb)

Weavers Bazaar wraps per inch figure - 40

### Plain Weave

Finish	Sett	Comment
40°C	<b>20</b>	Too loose unless the end use dictates it. ie light unlined curtains
40°C	<b>24</b>	Good balanced drape. Could be used for cushion covers and lightweight fashion fabrics.
40°C	<b>30</b>	Suitable for heavier weight fashion fabrics or upholstery. Lined jackets, cushion covers and lined curtains. <b>Good average sett</b>

### 2/2 Twill

Finish	Sett	Comment
40°C	<b>20</b>	Too loose unless the end use dictates it . ie light unlined curtains
40°C	<b>24</b>	Good balanced drape. Could be used for cushion covers and lightweight fashion fabrics.
40°C	<b>30</b>	Suitable for heavier weight fashion fabrics or upholstery. Lined jackets, cushion covers and lined curtains. <b>Good sett but probably 32 epi would be better, or even 36epi.</b>

## WEAVERSBAZAAR PROJECT

**RESULTS:** 9.5/2nm (2/8wc) – 4680m/kilo (2560 yards/lb)

Weavers Bazaar wraps per inch figure – 35

### Plain Weave

Finish	Sett	Comment
Hand wash	<b>10epi/10ppi</b>	Very loose and open cloth.
Hand wash	<b>15epi/15ppi</b>	Surprising lightweight cloth with soft handle. Slightly open sett. Not much 'crazing'. Maybe suitable for blankets.
Hand wash	<b>18epi/18ppi</b>	Good average sett. Still flexible. Cushions, table mats and bags.
Hand wash	<b>20epi/20ppi</b>	Good tight sett. Stiff cloth with slight 'crazing'. Good for upholstery fabrics, cushions and bags
Hand Wash	<b>30epi/20ppi</b>	Warp dominant cloth. Stiff handle. Table mats, wall hangings.

### 2/2 Twill

Finish	Sett	Comment
Hand wash	<b>18epi/18ppi</b>	Slightly loose sett. Although very pliable.
Hand wash	<b>20epi/20ppi</b>	Good average sett. Pliable cloth with no 'crazing'. Good for upholstery fabrics and cushions. Lies wonderfully flat.
Hand Wash	<b>24epi/24ppi</b>	Very good sett. Gives a hardwearing cloth. Quite heavy though. Lies wonderfully flat. Table mats, wall hangings, bags, upholstery.
Hand wash	<b>28epi/28ppi</b>	Stiff fabric. Would be incredible hard wearing.
Hand wash	<b>40epi/25ppi</b>	Warp dominant cloth, tight, heavy smooth and solid.

**RESULTS:** 5/2nm (2/4wc) – 2320m/kilo (1280 yards/lb)

Weavers Bazaar wraps per inch figure – 24

**Plain Weave**

Finish	Sett	Comment
Hand wash	<b>12epi/12ppi</b>	Stable sett. Surprisingly soft handle. Slight 'crazing'. Cushions.
Hand wash	<b>15epi/15ppi</b>	Good sett, which gives a solid drape. A lot of 'crazing'. Cushions.
Hand wash	<b>20epi/17ppi</b>	Slightly warp dominant. Slight 'crazing'. Very thick.

Overall this yarn is almost too thick to be useful as a fabric weigh. It would be perfect for warp and weft dominant floor rugs and tapestries.

**RESULTS: 5/2nm yarn woven alternately with 9.5/2nm in warp and weft.**

**Plain Weave**

Finish	Sett	Comment
Hand wash	<b>16epi/16ppi</b>	Stable sett. Surprisingly soft handle. Pleasant texture, which hides any 'crazing'. Quite thick though. Cushions
Hand wash	<b>20epi/20ppi</b>	Good sett, which gives a pleasant drape. Surprising lightweight. The mixture of yarns seems to eliminate the normal 'crazing' effect with plain weave. Cushions.
Hand wash	<b>24epi/22ppi</b>	Slightly warp dominant. Again surprisingly flexible, smooth handle. Cushions, upholstery fabrics.
Hand wash	<b>40epi/14ppi</b>	Starting to look like the sort of cloth this yarn was made for. Solid warp dominant cloth. Smooth and firm. Beautiful. Warp sett could be increased quite a bit more. With thick and thin wefts alternating would weave the perfect Repp cloth.

**2/2 twill**

Finish	Sett	Comment
Hand wash	<b>16epi/16ppi</b>	Too loose
Hand wash	<b>20epi/20ppi</b>	Good sett, which gives a smooth solid drape. Cushions, upholstery, bags
Hand wash	<b>24epi/22ppi</b>	Thick cloth, but still very nice, smooth handle.
Hand wash	<b>40epi/18ppi</b>	Lovely warp dominant cloth. Starting to look like the sort of cloth these yarns are designed for.  The warp sett could be increased quite a bit to make superb floor rugs.