In Depth Study Permission and License

By signing and submitting this agreement, I grant Olds College the non-exclusive license to archive and make accessible my Master Spinner Program In Depth Study in whole or in part in all forms of media now or hereafter known for educational, research, and scientific nonprofit uses during the full term of copyright. I retain all other ownership rights to the copyright including the right to use in future works (such as articles or books) all or part of my work.

I represent that the submission is my original work, and that I have the right to grant rights contained in this license. I also represent that my submission does not, to the best of my knowledge, infringe on anyone’s copyright and that I have obtained written permission from the owner(s) of any third party copyrighted matter included in the work.

I understand that my In Depth Study will be placed in the Olds College’s library for access to the public. I will understand that I will clearly be identified by name as the author of the submitted work and that Olds College will not make any alteration other than as allowed by this license to my submission.

Signed: [Signature]

Date: 6 July 2019
A HAND SPINNING STUDY
to produce the most suitable cotton yarn to accentuate stitch definition in cabled hand knitting. The yarn is to be suitable to create a sweater for a baby, from birth to 18 months of age.

Samples: [Book 1]
Finely spun singles
Yarns plied from these singles
Egyptian Cotton

Purchased from Twist Fibre Craft Studio, Newburgh, Scotland.
www.twistfibrecraft.co.uk.

Pima Cotton - Finely Linen only

3 Different Cotton Preparations used in this study

Peruvian Organic Cotton

Purchased from Rose Farm, Zehner, Saskatchewan.
www.rosefarm.info

This Pima Cotton was given to me. It was purchased by a friend in the 1980's from Cotton Clouds in Arizona, U.S.A.

Each of the 3 samples of cotton were spun in 2 different gaits:

b) Thicker Gait - in Book 2.

From each of the singles a variety of plyed yarns were produced and the knitted samples compared to. He stitch definition
Egyptian Cotton - Fine Knit

Singles - this girt used in following samples

Cotton Count = 8.5
This girt used in following Egyptian Cotton Plyed samples

2 ply Knitted Sample

Egyptian Cotton - Fine Knit

2 ply Yarn

Singles from Cotton - 2.5
10 yard sample weight 0.65gms
Egyptian Cotton - Fine Knit
3 ply Yarn

Egyptian Cotton - Fine Knit
3 ply Knitted Sample

Egyptian Cotton - Fine Knit
4 ply Yarn

Egyptian Cotton - Fine Knit
4 ply Knitted Sample
Opinion Survey # 351
Egyptian Cotton - Fine Gist
2 ply x 2 ply (cabled 2) Yarn

Egyptian Cotton - Fine Gist
3 ply x 3 ply (cabled 2) Yarn

Egyptian Cotton - Fine Gist
2 ply x 2 ply (cabled 2) Knitted Sample
(Spinning Survey #246)

Egyptian Cotton - Fine Gist
3 ply x 3 ply (cabled 2) Knitted Sample
(Not entered in Opinion Survey)
Pima Cotton - very fine gmt

Oct. 19/08.
Cotton Count = 63.6. Spun on takli. Wished for thicker gmt (see sample on right which was spun on wheel)

Cotton Count = 840. Specimen used in following: Pima Cotton Plyed Sample

This gmt used in following: Pima Cotton Plyed Sample

Pima Cotton - fine gmt

Cotton Count = 515. This gmt used in following: Pima Cotton Plyed Sample

Pima Cotton - Fine gmt

2 ply yarn

Plyed on wheel
Pima Cotton - Fine gauge 3ply yarn
Knitted on 3mm needles

Needle size for knitting makes a difference.

Opinion Survey #843 →
Pima Cotton - fine grade

4-ply knitted sample
Knitted on 3½ mm. needles
(took 23½ yds to knit sample)

SAMPLE N POCKET
BELOW

Opinion Survey #: 416

Pima Cotton - fine grade
4-ply sample below

Opinion Survey #: 416

Bolt singles & plied yarn
wore made on wheel.
Pima Cotton - Fine girt
(2ply x 2ply) cabled z

Above: I feel stitches are better defined by tighter twist cabled yarn. (Opinion Survey # 798)
Below: I feel knab shape is vicer & fabric is softer in sample below. (Survey # 597)

Sample below has less twist. Yarn is very softly cabled.

Above sample has increased & twist creates more definitive cabled yarn.

Single thread all polished in spinning

Low twist cable.
Minimum "S" twist was applied to produce the component 3 ply yarns, and minimum cabling "Z" twist was applied to produce the resulting balanced cabled yarn. This was done in an attempt to produce a soft handle in the completed knitting.

My personal opinion regarding this knitted sample is that it would produce a very heavy garment and would not be suitable for a baby sweater.

I, therefore, did not attempt to produce the same 3 ply x 3 ply, cabled yarn in the other trial grist of pima.

THIS SAMPLE WAS NOT ENTERED IN THE OPINION SURVEY
Peruvian Organic Cotton - fine graft

This single yarn was spun on a Charkha. Cotton Count = 9.
This single was following fine plied yarn.

Peruvian Organic Cotton - fine graft

2 ply yarn
2 ply yarn plied on 10 yard. sample
2 ply yarn plied on Charkha

Peruvian Organic Cotton - fine graft

2 ply knitted sample
Knitted on 2 mm. needles
Required 16 yards of yarn to complete
2 mm. needles

Peruvian Organic Cotton - fine graft

2 ply knitted sample
16 yards to complete sample

Opinion 4.75
Peruvian Organic Cotton - fine gout

Single or slub yarn.
3 ply yarn plied on spinning wheel

Opinion Survey # 896

Peruvian Organic Cotton - fine gout

3 ply knitted sample
knitted on 24mm needles

Peruvian Organic Cotton - fine gout
3 ply knitted sample
knitted on 3mm needles

This is a knitted sample in Opinion Survey.
Peruvian Organic Cotton - fine grist
4-ply Yarn

Singlet on spinning wheel

Peruvian Organic Cotton - fine grist
Yarn cabled (2-ply x 2-ply) cabled Z

> > > Z

Knitted sample - boiled + washing soda deepers colour

Peruvian Organic Cotton - fine grist
4-ply knitted sample on 3.5 mm needles
Not entered in Opinion Survey

See Next Page

4 ply - Peruvian knitted sample
( knitted on 3.5 mm needles)

Opinion Survey # 532

Peruvian Cotton - fine grist

Yarn 2-ply scalled Z
2-ply

10 yard skein

15 yards x 30 mm

5 yards x 60 mm

Peruvian Cotton - fine grist

Knitted sample using 4 ply cabled yarn
Peruvian Organic Cotton: Fine Grist. 4 ply

Knitted Sample
(Singles spun on Charkha, plied on spinning wheel)

The above sample was knitted on Size 3.75mm. knitting needles. 26 yards of yarn were required to knit this sample.

Opinion Survey # 532
Peruvian Organic Cotton: Fine Grist. (3 ply x 3 ply), cabled Z

Knitted Sample, and 10 yard skein.
(Singles spun on Charkha, plied and cabled on spinning wheel).

The above sample was knitted on Size 3.25mm. knitting needles. 24.5 yards of yarn were required to knit this sample. I considered this sample to be too heavy in weight to be suitable for a baby sweater.

THIS SAMPLE WAS NOT ENTERED IN THE OPINION SURVEY