Lay the distaff at one side, top facing you, and roll the fibers around it. Untie the ribbon from your waist, and retie it at the top of the distaff. Criss-cross the ribbon around the flax and tie it in a bow at the bottom. Tuck long loose ends under, and you're ready to SPIN!

EPPO PLAN fairly fine, using a counter- i clockwise spin of the spinning

wheel ("S" twist). Keep the fingers that smooth down the fibers as they enter the orifice were by periodically dipping them into a cup of water. This "glues down" tiny hairs that would otherwise make a very fuzzy thread. Draw down a few fibers at a time from the distaff with the other hand.

Once it's spun — and plied, if desired, the linen should be wound off the bobbin onto a "niddy-noddy," skein winder, or equivalent to make a skein. Tie firmly in several places,

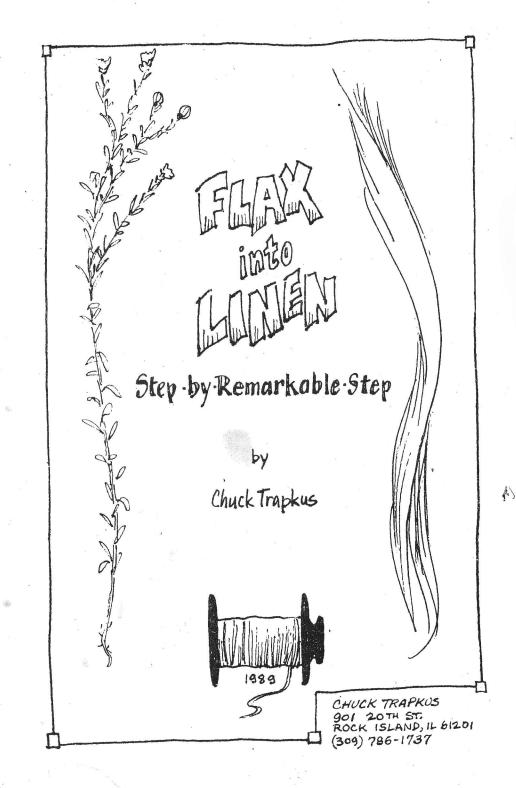
and boil in a pot of water for a couple hours to set the twist and

reduce the fuzziness.

Re-reel it, putting the wet skein on a swift and running the linen through your fingers (to smooth it) back onto the niddy-noddy or winder. Hang the skein loosely to dry.

Info on bleaching, dying, sizing, and weaving: <u>Linen</u> by Patricia Baines, 1989 WTERWEAVE PRESS

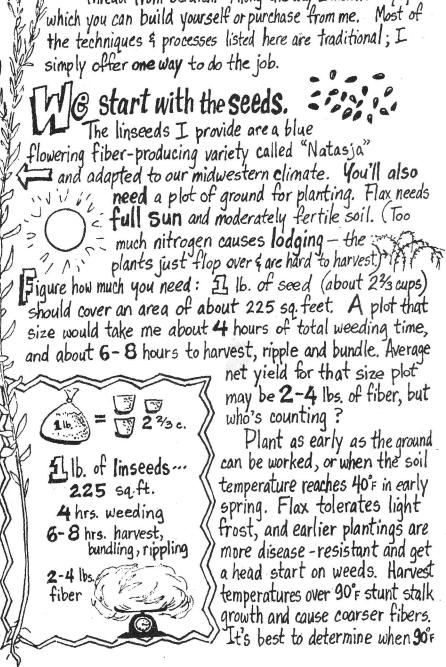
The can provide all the equipment mentioned in this brochure, from ripples to spinning wheels, lovingly made to order using only hand tools and traditional woodworking techniques. I can also provide CHUCK TRAPKUS 901 20TH STREET Rock Island, IL 61201

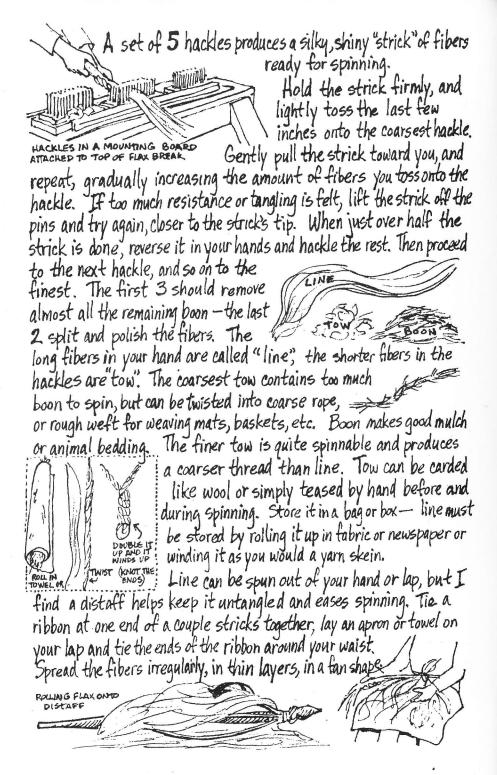


provides basic information needed to produce linen thread from "scratch." Along the way I mention equipment which you can build yourself or purchase from me. Most of the techniques & processes listed here are traditional; I simply offer one way to do the job.

may be 2-4 lbs. of fiber, but

can be worked, or when the soil temperature reaches 40°F in early spring. Flax tolerates light frost, and earlier plantings are more disease - resistant and get a head start on weeds. Harvest temperatures over 90°F stunt stalk growth and cause coarser fibers.





(or "beets") should be brought indoors or covered. Usea Milly slip knot or bow knot to allow retying — the stalks shrink as they dry, so each bundle should be ratied tightly, Beware: mice and 87 birds love the seedheads!

When the plants are dry, the seedheads are removed. Mount a ripple (arow of blunt mails evenly spaced) on a sawhorse or flaxbreak, or drive it into the ground with stakes. Spread a sheet out to collect the E seedheads. Kull the end of each bundle through the ripple to pop the seedheads off, taking care to

maintain the evenness of the bundles'

rootends.

The seedless bundles can be stored for many months if necessary, but must be kept dry. The seedheads

can be THRESHED (crushed) easily with a rolling pin on a hard surface, a handful (1) at a time. The threshed mixture is WINNOWED by pouring it slowly back

and forth between containers on a breezy day or infront of a fan, to blow away the chaff. You can also use a coarse (4") screen to filter out some chaff. Store seed in a

tightly sealed container in a cool, dry place (I use our unheated garage), for planting next year's flax crop. It can also be eaten (it is a natural laxative), cracked and pressed for linseed oil, or boiled to make a gel that pioneer women once used to set their hair with!

"RETTING" The inner stalk



must now be rotted away to leave the outer fibers intact. A large water tight container of wood, concrete, earthenware or plastic (NOT METAL-acids produced

will corrode it) is needed, I have used a TALL plastic garbage can, with a plastic spigot (for a water heater) installed near the bottom. Brages Metal I pack as many bundles as I can inside, fill it up with water (80°F is best, so do this in warm weather) and bend down the taller stalks as I cover the barrel GARBAGE CAN ... with a board and cement blocks to 1. keep the flax

submerged, 2. conserve warmth, and 3. contain the STENCH! (MEW!)

After 4 hours, the barrel is drained — a hose attached to the spigot makes this easy. It is then refilled to the brim, to soak for several days. After 8 hours, add a bucket or two of water to



wash away the scum that forms on the top — it overflows the sides. This is repeated every 12 hours — at 80° f it takes 4 or 5 days; at colder temperatures it may take weeks. HOW DO YOU KNOW WHEN RETTING IS COMPLETE? Tricky at first. The bundles should feel soft and slimy, and you should see quite a few fibers standing out from the stalks. When you wrap a piece of stalk around your finger, the inner woody part should spring up away from the fibers. If you're unsure, dry the bundles and see how they respond to further processing; retting can later be resumed if necessary. Under retting makes processing difficult or impossible; over-retting (God forbid!) rots the fibers as well as the stalk.

Then retting is done, drain the barrel again, rinse the bundles under a hose, and lay them out to dry thoroughly, a few days. At this point they can be stored in a dry spot indefinitely.

To extract the fibers from the straw—"DRESSING"— the bundles are 10 BROKEN A FLAXBREAK 12 SCUTCHED I has a set of wooden 18 HACKLED ! blades which mesh together when the upper jaw is lowered. Until a bundle, hold one end firmly and lay it across the lower blades of the 1 break. Bring the upper jaw down forcefully,// raise it, and move the flax out an inch or two 1/5 and repeat. When that half is broken, grasp the broken ends and repeat the process on the other Whalf. A slight shake should leave a pile of "boon" on the ground. (3)) GLUTCHING is the next step, which removes more of the boon. Hold the bundle firmly in one hand 155 and drape the loose half over the edge of a board fixed in a verticle position. Swing = a wooden "scutching knife" down on it, scraping the edge of the knife along the fibers to catch on the boon and sweep it away. Pull the bundle back slowly as you go, turn it over a tew times, and then reverse the bundle end for end to scutch the other half. Some fiber will also be ecutched away; this is beds of nails'-sharp tempored

NO. OF PINS PER SQUARE INCH

weather begins, and count back 100 days for the best planting date. Work the soil to a fine filth. Sow (broadcast) the seed in 4 ft. wide sections with _ narrow paths in between. This allows for hand weeding without stepping on the plants. SOWING PATTERN FIRST HALF OF SEED: Broadcast evenly and gently rake the soil to MMMMM cover the seed to a depth of about 1/2 inch. MMMMM Fiber flax must be sown thickly to encourage SECOND HALF: thin, straight stems. Mand weed as early and as often LLI as necessary, before the plants reach 10" high. When they are taller they do not spring back up once bent over. Flax competes poorly with weeds because of its tiny leaves and shallow roots, so WEED BARLY!

About 60 days after germination, tiny blue (white in many varieties) flowers open up, mostly in the morning. Most blooming occurs all at once, and then tapers off over the following weeks. Begin harvesting about 30 days after the initial blooming, when stalks are yellowing but some green remains. Later harvest yields coarser fibers, though I have produced lovely fiber from plants left standing 2 months beyond that, and in a drought! Most unripe seeds will ripen

handfulls, straight up. Join several handfuls together with the root ends butted evenly. Tie a string around the middle and set it aside. When you have done several, stack them together, root ends down, to dry for about two weeks

depending on the weather. If it's rainy, the bundles

long-tapered, tempered, polished steel pins of various sizes driven into

wooden blocks at regular spacing.