LURE OF THE NORTH

Hand Crafting Traditional Winter Moccasins Book 1: The Lowers



Dave and Kielyn Marrone Version 2.0, June 2016 http://lureofthenorth.com **Note:** This booklet is a continuation of a larger moccasin making series. For all other publications in this series, please see our website at lureofthenorth.com. Published instructional booklets can be found under "Info Hub" in the main navigation menu.

Booklets in the Winter Moccasins Series

Book 1: Lowers (this booklet);

Book 2: Tube-style canvas uppers;

Book 3: Buckskin wrap-style uppers using boar, deer or other buckskin;

Note 1 - Acknowledgements: The original impetus for these instructions came from Garrett and Alexandra Conover's excellent book "A Snow Walker's Companion". They are an inspiration in this field.

Note 2 – Lure Moccasin Making Kits: These instructions are intended to be accompanied by our Moccasin Making Kit, which is available through the "Store" section of our website at: http://lureofthenorth.com. Of course, you can also gather all materials yourself and simply use these instructions as a guide, modifying to suit your requirements.

Note 3 - Distribution: Feel free to distribute these instructions to anyone you please, with the requirement that this package be distributed in its entirety with no modifications whatsoever. Thanks!

Note 4 – Feedback and Further Help: Feedback is welcomed to improve clarity in future editions. For even more assistance you might consider taking a moccasin making workshop with us. These workshops are run throughout Ontario, and includes hands-on instructions and all materials. Again, check the website for more details and a current schedule.

Our Philosophy: This booklet describes our understanding of a traditional craft – these skills and this knowledge has traditionally been handed down from person to person and now we are attempting to do the same. We are happy to have the opportunity to share this knowledge with you, however, if you use these instructions and find them helpful, please give credit where it is due. We have worked hard to produce this package and would appreciate any acknowledgements given. Thank you.

- The Lure Team, Kielyn & Dave Marrone

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0.0 What Makes Winter Moccasins so Great?

If you have never used winter moccasins before, you have been missing out on one of winter's greatest treasures! Winter moccasins are likely the warmest, lightest and coziest pair of winter footwear you will ever wear – they have literally changed our attitude towards winter, and inspired us out on winter treks up to 40 days in length in northern Ontario. The secret to their warmth is threefold:

- 1. All the materials are entirely <u>breathable</u>, which keeps your feet, socks and liners dry even on the hardest days of work;
- 2. Moccasins are generously sized in width and height allowing lots of room for extra insulating layers of wool socks and liners;
- 3. <u>Wiggle room</u>: Because these moccasins are soft-soled the muscles of your feet are much more involved when you walk, helping to generate heat right where you need it most.



Illustration 1: Winter Moccasins made from a Lure of the North kit, by Farafoot Bushcraft, Shropshire, UK

0.1 DIY Benefits

Making moccasins yourself gives you an opportunity to customize and personalize them to your heart's content. This can be elaborate ornamentation, including bead work, burning and the like, or simple elegance. Check out the beautiful moccasins to the right made by Farafoot Bushcraft of Shropshire, England (http://www.farafoot.co.uk/) using one of our moccasin kits and some innovations of their own. The skills learned in making these moccasins will give you the knowledge and confidence to repair them and other equipment in the field. And of course, this is an opportunity to connect with the heritage of our land and those that have travelled it before us.



Illustration 2: Happy moc-shop participants from Georgian Bay Secondary School's Pursuits Program

1.0 Getting Prepared

1.1 Kit Contents:

Winter Moccasin Making Kits from Lure of the North come in two different styles: canvas, "tube-style" uppers; and buckskin, "wrap-style" uppers. A full kit will include all of the items listed under your selected style:

1.1.1 Canvas "tube-style" uppers



Illustration 3: Everything included in "canvas upper" moc kit. Note: there are a variety of deerskin colours and decorative ribbons available.

- \sim 5 square feet of deerskin for the lowers (available in a variety of colours);
- 36"x24" piece of 10 oz cotton canvas for uppers;
- 2 x 1" x 2.5' decorative ribbons (available in a variety of styles);
- 2 x 1" x 2', light cotton tape for binding bottom edge of gaiters;
- 2 x 1/2" x 2.5' light cotton webbing used as upper ties, ends sealed with beeswax;
- 2 x 1/2" x 10' light cotton webbing uses as wrap-around ties, ends sealed w/ beeswax;
- Artificial sinew enough for project, plus extra for repair kit;
- 2x "Glover's Needles" (Aka. "Triangular Needles" or "Leather Needles");
- Extra deerskin scraps: enough to make a sewing thimble, tabs for wrap-around lace, and/ or use in repair kit;
- Paper patterns;
- Colour and bound instructional booklets.

1.1.2 Buckskin, "wrap-style" uppers



Illustration 4: Everything included in a "buckskin upper" moc kit. Note: There are a variety of deerskin and boar skin colours to choose from.

- \sim 5 square feet of full-grain buckskin for the lowers (available in a variety of colours);
- 8-10 sq ft of split-grain buckskin for uppers (available in a variety of colours);
- 2 x deer antler buttons (not pictured whoops);
- 2 x 1" x 2', light cotton tape to reinforce boar-deer seam;
- 2 x 1/2" x 10' light cotton webbing uses as wrap-around ties, ends sealed w/ beeswax;
- Artificial sinew enough for project, plus extra for repair kit;
- 2x "Glover's Needles" (Aka. "Triangular Needles" or "Leather Needles");
- Extra deerskin scraps: enough to make a sewing thimble, tabs for wrap-around lace, and/ or use in repair kit;
- Paper patterns;

1.2 Items Not Provided



Illustration 5: You need only supply a few standard household items.

- Insulating Layers (see below);
- A regular household sewing machine with regular thread and denim needle;
- scissors;
- pins;
- measuring tape;
- ruler;

1.2.1 Insulating Layers

These moccasins are the outer 'shells' of a complete, warm, footwear system. A crucial piece of the puzzle, but alone they will do very little to keep your feet warm. You also need to provide enough insulating layers for the temperatures you intend to travel in. A typical winter footwear system for the winter woods would include:



Illustration 6: Various liners we use and sell. From L-R: Wool blanket liners, fleece over-socks, thermohair socks and insoles & felted wool boot liners.

- A nice, comfortable pair of well-fitting wool socks;
- A second pair of wool socks, preferably big, chunky knit socks, or fleece "over-socks";
- A liner system: This may be soft, flexible blanket (aka. Wool "duffle") liners or a commercial pair of felted wool boot liners. If using commercial liners, look for wool, and avoid any features which may limit breathability. This includes foil reflective layers, "vapour barrier" layers, etc.
- A thick felted wool insole to go inside the moccasin and insulate you from the ground.

We carry an insulation package on our website that includes thick wool liners, wool insoles and luxurious base layer socks. We are currently still searching for the perfect supplier for thick knitted socks.

Note: All of these insulating layers should be obtained before you begin construction of your moccasins. You will need these for proper sizing throughout the construction process.

2.0 Making a thimble (Aka. "The Basics")

- 1. Grab your leather needle. Notice the needle has a triangular tip with blades on each edge. This needle is designed to cut through your leather, and will likewise cut you if you're not careful. We will begin by construction a small leather thimble (or two) for protection.
- 2. Thread the needle. Depending on the type of thread you are using, you may need to split it down in thickness. The sinew we use and supply with our kits, does need to be split into quarters before it can be used. Our sinew will easily and naturally split into quarters. Use TWO of the four strands for each sewing piece. If you are trying to force it, try again until you find the natural split. If your thread is too thick for your needle, you will be struggling with every stitch.
- 3. The thread should be hanging unevenly from the needle that is, one half of the thread should be longer than the other. Put a knot at the end of the long half of thread.
- 4. Cut a rectangle $\sim 1 \frac{1}{2}$ " wide and 5" long of hide. Fold this in half width-wise to form a thimble $\sim 2^{1/2}$ " x 1 $\frac{1}{2}$ " wide with seams on either side.
 - a) Adjust this size according to your finger. It should snugly fold around the finger you intend to use your thimble on, and reach beyond your first knuckle.
- 5. You will sew the seams of the thimble using the "Whip Stitch". This is the same stitch (with some small variations) that you will use for almost every seam on this project. The whip stitch is done as follows:
 - a) Holding the thimble in your left hand and the needle in your right, you will stitch from one open corner up into the fold you have made. Begin by opening the two halves of leather, and push the needle down through just the bottom piece of leather. Pull all the way through to the knot. This initial stitch is placed between your two pieces of leather to hide your knot inside your thimble.
 - b) Bring your needle back up and around, fold your two pieces of leather back "Hiding the together and push the needle down through both pieces of leather. This is your first full stitch.
- Illustration 7: Knot"
 - c) Bring your needle back up around and again stitch down through both pieces of leather ~ 1/8" (2 – 3 mm) over from your previous stitch.
 - d) This is the whip stitch. If done properly your thread will lay over the open edge of the thimble. The key to doing the whip stitch properly is to put every stitch down through the same piece of leather first. For example, in the thimble you have already started you will continue by always pushing the needle down through the upper piece of leather first (except for your initial ½ stitch which is done to hide your knot...). Stitches continue: down and around, down and around, down and around.

Note – Whip Stitch Details:



Your deerskin is very forgiving material in terms of how you sew it together. Because the skin does not fray when cut, you do not have to worry about finishing edges. Likewise, you can place your stitches fairly close to the edge of the material without worrying about them pulling through. I like to keep my stitch depth (distance from edge of material) at about 3mm (or 1/8"). The stitch length (distance between each stitch) should also be kept fairly tight (again ~ 3mm or 1/8"). This makes a very nice, professional finish, and is

Illustration 8: Appropriate stitch particularly important when you are doing 'pucker' stitches in the toe length and stitch depth. of the moccasin. Finally, the key to a really nice looking finished moccasin is consistency. If you can keep your stitch depth and stitch length consistent from one stitch to the next you will do a very fine job. IMPORTANT: There is no need to place your stitches tighter together or closer to the edge than 1/8". Unlike woven fabrics, when sewing deerskin you are cutting holes in the material with each stitch. Place your stitches too close together and risk weakening your material.

- 6. Continue sewing your thimble using the Whip Stitch until you reach the fold in the leather you have completed one side, and now need to finish off your stitch.
- 7. Seams are finished as such:
 - a) After your final whip stitch, bring your needle back up, and stitch down through the exact same hole that you just made. This will lay a second whip stitch on top of your last one.
 - b) Bring the needle back up and make another stitch in the same hole a 3^{rd} stitch now lays on top of the first two.
 - c) Place a fourth stitch in the same hole, but do not pull tight. Pull the stitch most of the way through, leaving a small loop of thread. Pass the needle through this loop twice. Pull tight to knot.
- 8. Snip your thread close to your thimble to keep things neat and tidy.
- 9. Put another knot in the long end of your thread and sew up the second side of your thimble, following steps 5 8. Start at the open corner, hide your knot by starting with a ½ stitch (just through one piece of leather) initially, and then whip stitch up into the fold. When you reach the fold, stack four stitches in one hole, make a knot and pull tight to bind.

The thimble should fit very snugly on whatever digit you choose to use it on (force it on - it will stretch). Many people use it on their index finger and/ or thumb, while others find it most useful on the middle finger. This is a matter of personal preference. Make yourself a second or third thimble at this time if you feel you will want the extra protection (more thimbles are more cumbersome however!). Spice up your thimbles by drawing faces, cutting fringe or burning a design in them.

You are now ready to begin your moccasins!

3.0 Sizing Your Moccasin

[Note: If you have not purchased a kit, the pattern is available on our Info Hub tab on the main menu of our website].

The moccasin lower is constructed from two pieces: a larger piece, known as the "sole" and a smaller piece, the "vamp". See the illustration at right. For the moment, we are only worried about customizing the **width** of your moccasins. We will leave some extra length which will be trimmed off at a later step to customize the **length** of your moccasin.

Customizing Width

Put on all your insulating layers, except your felt insole, and measure the circumference around the arch of your foot as shown in the photo. We will call this measurement "C". Now refer to the sizing chart provided. Find the pattern combination that best meets your measurement. If you are in between sizes then adjust by cutting on the inside or outside of the line on the sole portion of the pattern.

Important information regarding insole thicknesses: Your insole is intentionally left out of this measurement to ensure your moccasins fit quite tight initially. *In fact you may not be able to comfortably get your insole into your completed moccasin at first. This is by design.* Moccasins will stretch – leaving your insole out of this step helps to ensure that they fit well, not sloppy, after initial ("C") stretching. This works well with standard thickness insoles of 3 – 6 mm (1/8" – 1/4"). If your insoles are significantly thicker than this, you may want to add a couple mm to measurement "C"].

Ensuring Adequate Length

Once you have sized your pattern to the appropriate width it is time to ensure adequate length. Measure the length of your foot (wearing your insulating layers) from toe to heel. The length of your "sole" pattern piece (measurement "L" in the diagram above) should be \sim 3" longer than the length of your foot. If it is not, increase the length of your sole piece, straight back, as much as necessary.

You now know how to accurately adjust your pattern for any size moccasin, and any amount of insulation. This same pattern would be used for tight-fitting summer moccasins, or bulbous arctic winter moccasins.



Illustration 10: This pattern is too short, and should be extended $\sim 2''$.

4.0 Making the Lower

4.1 Inspect your hide and select a tracing location

[Note: The inside (fuzzy or 'suede' side) of the hide is known as the "flesh" side, the smooth side is known as the "grain" side. The grain side is the hair side or outside of the hide.]

You can use either side of the hide as the outside of your moccasin, with little to no difference in performance. Considerations:

- The flesh side will initially have more traction than the grain side, but will eventually polish with use until there is little difference between the two sides;
- The grain side will take a burning better if you choose to decorate through leather burning;

Inspect your hide for any thin spots, holes, or brands that you may want to avoid. Run your hands over the hide, push and pull on any spots you are nervous about.

4.2 Trace and Cut

- 1. Place the pattern pieces on the 'wrong' side of the hide (ie. The side of the hide you intend to be the inside), and carefully trace the patterns using a regular pen or chalk. Be sure to put tick marks at all three locations.
- 2. Cut the patterns using a sharp pair of scissors.

4.3 Tack Vamp and Sole together

- Place the vamp on top of the sole wrong side to wrong side (Eg. Smooth side to smooth side if you are planning to have the suede side out).
- 2. Match one side tick mark on the vamp to the same tick mark on the sole. Place 3 stitches through tick mark on both pieces to tack the sole and vamp together at this point.
- 3. Pull the vamp across the sole to match tick mark B on each piece together. Tack the two pieces together with 3 whip stitches right through tick mark.
- 4. Repeat with your second moccasin.



Illustration 11: Sole and vamp - tacked and ready to go!

4.4 Sew the Toe Section

Note: These directions are described for right-handed people. When we begin puckering, "lefties" may want to start by going to their right first. You may find this an easier way to grasp the pucker stitch.

- 1. Thread your needle with a fresh piece of sinew approximately an arm-span in length (don't forget to section your sinew in half).
- 2. Pull the vamp up the sole to match tick mark at the toe. This is where you will begin to sew.
- 3. Hold your tacked-together pieces in your left hand, with the toe of your moccasin facing away from you, and the vamp on top. With the needle in your right hand, place a ½ stitch through *just the sole* piece of leather. Remember, this is done on your initial stitch only, so as to hide your knot between the two pieces of leather.
- 4. Bring your needle back up and place a full stitch through both the vamp and sole at the tip of the toe. Your two pieces should now be temporarily tacked together at the sides and have one stitch at the toe. You are now ready to begin 'puckering'!
- 5. The pucker stitch is done as a variation of the whip stitch. As with your regular whip stitch, the needle will always go down through the same piece of leather first (in this case you will always go down through the vamp and come out through the sole). The difference comes in the stitch lengths (distance b/w each stitch). You will maintain the same stitch length on your vamp (~ 3mm/ 1/8"), but will increase the stitch length on your sole. This difference in stitch lengths will cause the material in the sole to bunch up or 'pucker'. This creates a nice rounded toe.
- 6. You will begin by stitching to your left. Create your first pucker by pushing some material on the sole towards your first stitch. Push and hold this pucker in place with your left hand. While holding your pucker in place, put your next stitch through both the vamp and sole, just to the left of your pucker.



Illustration 12: The first pucker stitch

- 7. At this point, your pucker is not tightly held and can easily slip out. Immediately place a second stitch in the same spot as your previous one, down through the vamp and sole. This locks the pucker in place.
- 8. Continue on to your second pucker. Push and hold the pucker with your left hand; place a stitch just to the left of the pucker. Immediately place a second stitch in the same spot. All of your puckers will continue in this manner with your first stitch creating the pucker, and a second stitch following in the exact same hole to lock the pucker in place.
 - a) Small puckers are very neat looking and traditional. Creating nice, small, consistent puckers is the most difficult part of the project for many people. After you have done a few puckers, stop, step back and take a look at the result.
 - b) In our experience, very few 'first-timers' will create exactly the pucker stitches they want. That's alright. If they are a bit too big, or lack consistency, don't worry about it. Embrace imperfection. If your puckers are loose and large enough that they have open gaps in them, you can do one of two things:
 - Pull out stitches and start over:
 - Back up and place a second stitch in the middle of your pucker... effectively cutting the pucker into two separate puckers.

9. You will continue doing pucker stitches around the toe of your moccasin towards the left, until you have taken up all the 'extra' material in the sole piece. Check this by occasionally lining up the sole and vamp. When the sole and vamp material match up exactly, you are done puckering! If you still have extra material in your sole you will continue puckering further. If you have extra material in your vamp, you have puckered too far, and must remove some stitches.



Illustration 13: Once the vamp and sole line up as shown, you are finished puckering!

- 10. Once you have finished pucker stitches, you will continue straight whip-stitching (down through the vamp, out through the sole) until you reach your tack. Once you near the tack, you can cut out the temporary tacking stitches.
- 11. When you reach the tick, make one stitch, and then immediately place a second stitch in the same hole.
- 12. Reverse directions and begin whip-stitching back towards your pucker stitches using the same holes you made previously. Thus, you are creating an x-pattern with your stitches and reinforcing this high-stress portion of your moccasins.
- 13. Continue whip-stitching until you reach the last pucker stitch. Finish your stitch at this point as described in Section 2 "Making a Thimble" (Ie. Place 4 stitches right on top of each other and pull tight).
- 14. You have completed one half of the toe of one moccasin! This may have taken a while, and your puckers may not be as consistent as you want, but it gets easier, and the differences in pucker size are purely cosmetic. Embrace your moccasin's (cosmetic) imperfections this is part of what makes it your unique project. Don't embrace functional imperfections though. Take the time now to make it right or your project may end up in the bottom of a closet later.
- 15. Begin the other half of your toes by returning to the top of the toe. Hide your first stitch between the two pieces of buckskin by placing it just through the sole piece. As always, all other stitches will go through both pieces of buckskin down through the vamp, out through the sole.
- 16. Begin puckering to your right. You will have to adjust how you do your puckers a little bit while puckering to your 'off side'. Rather than pushing puckers with your left hand, you will now have to pinch them. I like to pull the pucker and stack it up against the previous puckers you made. Place your first stitch to the right of the new pucker. Immediately place a second stitch in the same spot to lock your pucker in place.
- 17. Continue puckering towards the right tack, until the material on your sole and vamp matches up.
- 18. Whip stitch to right tack (remember to remove your temporary tack stitches as you near it.

19. Place two stitches at the tick, and then reverse directions. Continue whip stitching back up through your previously made holes until you reach your puckers. Finish your stitch (4 stacked stitches) at that point.

You are done the toes of one moccasin. Already your moccasin should be taking on a nice shape. Put all your insulating layers on your foot and slide it into the moccasin – test out the fit! Really tug the moccasin on, into place. Force it if need be. The buckskin will relax quite a bit, so don't worry if it's tight at this point, as long as you can get your foot in! If you sized your pattern correctly in Section 1.3, you should have a great fit at this point.

While the pucker is still fresh in your mind, complete the toes of your other moccasin. You are now done doing pucker stitches. Phew!



Illustration 14: Toes complete! Deerskin moccasin with sheepskin liner (aka "Shleepers").

4.5 Customizing the Length (Ie. measure and cut heel)

You may recall in step 1.3, when creating our patterns, we intentionally left our patterns too long and did not worry much about exact length measurements. Now that our toes are done, we can trim the heel to length to achieve a truly custom fit! You will appreciate the help of a friend in marking the heel.

- 1. Put on all your insulating layers (minus the insole), and place your foot into your moccasin toe. Pull the moccasin on so its a nice snug fit. Have a friend wrap the two back corners of your moccasin up to match behind your ankle. Overlap the rear portion of your moccasin as much as necessary to create a snug fit. Have your friend make a mark at the extent of your overlap.
- 2. Remove the moccasin, measure the distance from the rear of the moccasin to the newly plotted point your friend made (ie. Measure the amount of overlap). Divide this distance in half and mark a new point on both sides of the rear of the moccasin. This is the amount of excess material that needs to be trimmed off to create a tight fit.
- 3. Draw a straight line from point to point, and cut along this line to trim excess length off your moccasin. **REMEMBER: This is half the measured overlap only!**
- 4. Put the moccasin back on and re-measure. Now when you fold the rear of the moccasin up around the back of the foot, the ends should just barely meet at the back of your foot. If you need to trim further trim further. Remember, the moccasin should be snug to start.
- 5. Mark the centre of the moccasin at the edge. From either side of the mark measure 3/4" out and place a tick. From both of those ticks head towards the toe 3/4" and make a mark. Draw a crescent from the last tick to the centre line and make it nice and curved. You should have a smiley face when you're looking at the toe of you moccasin (illustration 19).
- 6. Remove your moccasins and cut out this heel crescent which you have just drawn.

7. Your moccasins are now perfectly sized to your foot and are ready to be completely sewn.



Illustration 15: Have a Illustr friend wrap the moccasin overla around your heel and mark the overlap.



Illustration 16: Divide that overlap by two and make a new mark.



Illustration 17: Draw a straight line across the rear of your moccasin from point to point and trim. REMEMBER: this should be HALF the overlap measured!



Illustration 18: The "heel crescent", drawn and cut out at the rear of the moccasin.

4.6 Sew the Heel Section

1. The back of your moccasin should now look like the diagram pictured below.



- 2. Fold the rear of the moccasin up to place points D together wrong side to wrong side (ie. insides together). Whip stitch from D to E.
- 3. Finish your stitch (4 stitches in 1 hole) at points E.
- 4. Flatten out the seam you just made, by pulling apart with your hands (don't be shy), while simultaneously pushing down on the seam with your thumbs. If you have done a whip stitch (and not a running stitch), you should be able to perfectly flatten out this seam with some pulling and pushing, creating a really nice rear seam on your moccasin.



Illustration 19: The flattened seam

- 5. Fold the heel crescent up over the seam you just created. This is commonly done incorrectly in our workshops. You should be bringing your heel crescent right up and over the bottom ~1" of
 - heel seam, so that the crescent completely covers the bottom of the seam. Many people try to line up the open edges of material here. Overlap.
- 6. Whip stitch from one end of the heel crescent to the other. This whip stitch is slightly different here because you do not have an open edge to sew over. We call this a "closed whip stitch":
 - a) Use the edge of your heel crescent as the edge you will 'whip' over. Stitch down on one side of this edge, and come back up on the other. Eg. every stitch should go down through both pieces of material (ie. The heel crescent plus the rest of the moccasin), but then should come back outside the heel crescent (ie. Needle comes through just one piece of material).



Illustration 20: The finished heel seam - showing a "closed" whip stitch.

- b) Every stitch should continue in this manner: down through both pieces of material, up through one, down through two, up through one.
- c) If done correctly your stitches will lay over the edge of your heel cresc other whip stitched seams you have created.
- 7. You're almost finished- just one last step. Cut a heel tab to accept your wrap-around lace that is approximately 1"x1.5" of the full-grain hide. Place the tap vertically oriented in the centre of the heel seem closer to the top of the moccasin. Sew the top and the bottom, leaving the side seems open with a close whip-stitch.



Illustration 21: Simple lacing tab.

4.7 Trim the Tongue

Because everyone's foot is different, the extra flap on the tongue helps to accommodate for that. But it's not necessary for the performance of your moccasin to be there so let's see if we can trim it.

- 1. Put on your insulating layers with your lower moccasin on as well. Look down at the arch of the top of your foot.
 - a) If the side tack spots are really stressed (pulling as if they want to come apart) then you may want to release a few stitches. Cut the sinew until the sides are relaxed. Start 5 or 6 stitches back when you re-sew so that you're locking the other stitches in place.
 - b) If the sides of the moccasins are really far away from the arch of your foot, then continue sewing until they meet as your foot is rising.
- 2. Once the tongue is in the appropriate place, i.e. it's comfortable, then trim the tongue on a slight arch from tack to tack. Leave a slight rise in the tongue to naturally accommodate for the rise in your foot.

You are now ready to start on your uppers! Put your lowers on a celebrate! You are well on your way to having comfy, toasty feet for the winter!



Illustration 22: Our completed lower - ready for a top!

Yippee!
Thank you for your support!
www.lureofthenorth.com

Appendix 1: Sizing Chart



	Size (In	8/2	1/2	8/2	2/8	8//	2/8	12	2/8	2/8	1/8.	3/8	1/4	2/10
	Combined Size (In	8	6	6	10 (10	7		12 (15	13	13		
Moccasin Sizing Chart		22.4	23.9	24.7	26.6	27.5	29.6	30.6	32.3	33.1	33.7	34.3	36.6	38
Moccas	Vamp/ Sole	0/0	0/1	1/1	1/2	2/2	2/3	3/3	3/4	4/4	4/5	5/5	9/9	0,0