

# Appendix E

## DO CHARTS LIE?

If you counted the number of public-side knit symbols in the shoulder-shaping charts in part three’s “Bottom-Up Shaping,” you may have noticed they weren’t quite accurate. Let’s take a closer look.

### Designed Shoulder Shaping

The written-out instructions for “The Basic Vest” in the size small have us bind off three stitches at the beginning of the eight shoulder rows. In “Bottom-Up Shaping,” the bind-offs were represented with this chart.

|     |  |
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Let's count the number of knit symbols in each row, figuring out the instructions exactly according to the symbols shown in the chart.

For private-side row B, the chart tells us to purl sixty-four stitches (stitches seventy-eight through fifteen inclusive), then do a P2tog for a directional purl decrease. Since we need two stitches to do a P2tog, we're already in trouble, because purling sixty-four and doing a single decrease means we ought to have started row B with sixty-six stitches. We had only sixty-five. By the chart, we finish row B with sixty-five stitches, the sixty-four we purl and the single stitch that results from the P2tog.

On row B1, we bind off two, knit sixty-one (symbols seventeen through seventy-seven inclusive), then SSK. But to work row B1 this way, we need three stitches to bind off two, the sixty-one in the middle, and two more at the end for the decrease. That means we ought to have started row B1 with sixty-six stitches, but we just saw we start it with only sixty-five because row B as charted ended with sixty-five.

We can continue in this fashion, and we'll see that the number of knit symbols simply isn't right on rows B2 through B7.

### ***Fully Written-Out Instructions***

Let's work the problem the other way, starting with the number of stitches we have as we begin row B and figuring out how many we'll work between the bind-offs and the decrease on each row. When we do a single decrease, we use two stitches from the source needle and give one stitch to the working needle. Binding off two means we use three stitches from the source needle and give one stitch to the working needle.

For the smoothed shoulder shaping, we can summarize stitches used and stitches made. The table looks tricky, but each column details the stitches used and made as we work across each row.

|    | A               | B       | C        | D                            | E        | F         | G                         |
|----|-----------------|---------|----------|------------------------------|----------|-----------|---------------------------|
|    | Row Starts With | BO Uses | Dec Uses | Central Stitches<br>(=A-B-C) | BO Gives | Dec Gives | Row Ends With<br>(=D+E+F) |
| B  | 65              | —       | 2        | 63                           | —        | 1         | 64                        |
| B1 | 64              | 3       | 2        | 59                           | 1        | 1         | 61                        |
| B2 | 61              | 3       | 2        | 56                           | 1        | 1         | 58                        |
| B3 | 58              | 3       | 2        | 53                           | 1        | 1         | 55                        |
| B4 | 55              | 3       | 2        | 50                           | 1        | 1         | 52                        |
| B5 | 52              | 3       | 2        | 47                           | 1        | 1         | 49                        |
| B6 | 49              | 3       | 2        | 44                           | 1        | 1         | 46                        |
| B7 | 46              | 3       | 2        | 41                           | 1        | 1         | 43                        |
| B8 | 43              | 3       | —        | 40                           | 1        | —         | 41                        |

Let's write out these instructions in the typical form, using the values in column D as the number of knit or purl stitches in the middle of each row.

### Smoothed Shoulder Shaping for Size Small Vest Back

On final WS row before starting shoulder BOs, P63, P2tog. (64 sts)

Row B1 (RS): BO 2, K59, SSK. (61 sts)

Row B2: BO 2, P56, P2tog. (58 sts)

Row B3: BO 2, K53, SSK. (55 sts)

Row B4: BO 2, P50, P2tog. (52 sts)




















Row B5: BO 2, K47, SSK. (49 sts)

Row B6: BO 2, P44, P2tog. (46 sts)

Row B7: BO 2, K41, SSK. (43 sts)

Row B8: BO 2, P40. (41 sts)

Now let's chart these instructions. Technically speaking, and in yarn of course, the first stitch bound off on each row will be the stitch that we're left with after doing the decrease at the end of the previous row. That's why the symbols are in slightly different positions than in the original version of the chart.

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| b 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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[illegible]

Let's swap in the bind-off symbols in the whole chart.

|     |  |     |
|-----|--|-----|
| b 8 |  |     |
| b 6 |  | b 7 |
| b 4 |  | b 5 |
| b 2 |  | b 3 |
| b   |  | b 1 |

If we count the innermost half arch, the knit symbols, and the decrease symbol on each row, we will see that we have the proper number of stitches as indicated by the table and the corresponding written-out instructions. Even on row B8, since we count the half-arch symbol on the right half of location sixty-six as the stitch that remained when we bound off the first two, we have stitches from locations sixty-six through twenty-six inclusive, which is—drum roll, please—forty-one. Yippee!

Part of the problem is that we're forcing all the symbols into a grid. The grid then makes it

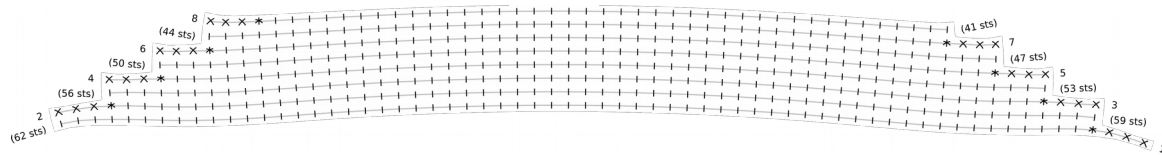
easy for us to count how many locations have symbols. But the symbols stay rigidly in place, especially compared to how real stitches move around and lean over when we bind off, decrease, and increase.

Think about how a decrease worked a stitch or two from the end of a row makes the end stitches lean instead of remaining straight up and down. But in the grid-based charts used in this book, we either have a rectangular symbol or we have a blank space. All the symbols have horizontal and vertical edges, which make square corners.<sup>1</sup> In that sense, the charts don't exactly match the work. Because of this limitation, some knitters might like [JC Briar's stitch maps](#) better.

Let's see what the stitch maps of the designed and smoothed shoulder shaping look like. If you've not worked with stitch maps, here's a quick summary of what they show.

- ☉ Each row is numbered, but instead of using our B through B8, the rows are labeled zero through eight; row zero is our foundation row B, and we can mentally put a B before the rest of the row numbers.
- ☉ A vertical line indicates a public-side knit stitch, so on private-side rows, we of course must purl.
- ☉ An X is a stitch that's been bound off.
- ☉ Pale-gray horizontal lines running through the symbols show all the stitches on a given row. (Showing these lines is optional, but they're useful when we're learning to read stitch maps and, for some of us, when we're trying to work from them.)
- ☉ The number of stitches remaining after we complete a row is shown in parentheses at the end of each row. (Showing end-of-row stitch counts is optional.)

The first stitch map shows the [designed shoulder shaping](#), binding off three stitches at the beginning of all eight shoulder rows. Note that the edges curve a bit, because the stitch map is trying to show how the fabric will actually respond to the various knitting operations. It finishes row eight (our row B8) with forty-one stitches, which is exactly right.



What's cool about a stitch map is that when we bind off, there's a special symbol used automagically for that extra stitch we always have to work. We can see that the bound-off stitches are each shown with an X. But that extra stitch, the fourth one we work to bind off the third stitch, is shown with an asterisk. That exactly represents what's going on.

<sup>1</sup> The only symbols that have a diagonal edge are the ones for Jolie Elder's 3-into-2 decreases.

## Improving the Grid Charts

For the designed shoulder shaping, we change the symbol after the final bound-off stitch from an ordinary knit to something—nearly anything—else. From among the many symbols with geometric shapes, let's use a symbol with—*cough*—a star in it.

[illegible]

Let's do the same thing in the smoothed shoulder shaping chart with the exact number of knit symbols, which we charted after we figured out exactly how many stitches the bind-offs and decreases used. Note that we actually have to **add** the star symbol after the second bound-off stitch on each row, **not replace** an existing knit symbol in those locations. That's because we knew beforehand from the table exactly how many knit symbols each row needed, so that's how many were already in the chart.

On row B1, we have symbols representing actual stitches we'll have on our working needle in locations seventeen through seventy-seven, which is sixty-one stitches. That matches what we have in the table. The rest of the rows show the correct number of symbols for actual, existing stitches as well, including row B8, where we finish the back neck with the required forty-one stitches.

## Lesson Learned

When we bind off a few stitches at the beginning of a row, we need to remember that the stitch immediately following the last bound-off stitch has **already** been worked. If we want the rest of the chart row to be absolutely accurate, we need to use a special symbol to represent that extra stitch. If we're not so picky about what the chart actually shows, we have to mentally subtract one to match the number of stitches that will remain on the source needle, especially if the rest of the row contains any kind of stitch pattern, rather than being just plain stockinette or garter.

To some knitters, stitch maps make more sense because they try to replicate the stitches' reactions to the surrounding decreases, bind-offs, increases, and cast-ons. This ability is especially useful when we're trying to design (or even just chart), for example, a lace stitch pattern. The stitches will lean left and right when stitches are added or taken away around them, and a lace stitch map looks remarkably like what we get in yarn (once we get used to looking at them).

Other knitters don't fuss over these issues, so they're happy with grid-based charts.

And regardless of our normal preference, we might well want to use both stitch maps



## Concentrate on the Chart's Intent

Suppose the designed shoulder chart had been presented this way:

[illegible]

For the smoothed shoulder shaping chart, the only symbols that really matter are again those at both ends of the rows.

