

SELECTING A YARDAGE TAPE USING 20 AND 40 YARD SETTINGS

The preferred most accurate system for choosing the correct yardage tape is by sighting in at 20 yards and 60 yards. If you are unable to sight in at 20 yards and 60 yards, you may sight in at 20 yards and 40 yards. This system, however, does require a bit more precise sighting and notation of the scale numbers on the sight in tape.

1. In order to select the proper tape you must have a safe range with a measured 20 yards and a measured 40 yards.
2. Apply one of the enclosed 0-65 Set-Up tapes, centering it on the sight fan. Extras are included in the kit. The numbers 0-65 are NOT yardage markers. They are merely a means of measuring and selecting the proper tape.
3. Sight in your bow at 20 yards. Move the sight pin up and down by moving the adjusting bar up or down.
4. Once you have an extremely accurate sight in at 20 yards, mark and make note of the number on the sight in tape nearest the indicator needle. When sighting in at 20 and 40 yards you must be extremely precise in selecting the correct scale number. EXAMPLE: If your needle is closest to number 18, select 18, if it is closest to 19, select 19. If your needle is closest to the middle, select 18 ½. .
5. Move out to a measured 40 yards. Adjust the sighting aperture downward by moving the adjusting bar upward until you have achieved an accurate sighting at 40 yards. Caution: the accuracy of the entire shooting system depends on an extremely accurate sighting at both 20 and 40 yards.
6. Once you have an extremely accurate sight in at 40 yards, mark and make note of the number on the sight in tape nearest the indicator. Example (number 37 ½). Lock the needle in place at 40 yards by rotating the knurled lock knob located on the adjustment bar.
7. Subtract the 20 yard setting (small number, example 18) from the 40 yard setting (large number, example 37 ½) Example: $37 \frac{1}{2} - 18 = 19 \frac{1}{2}$.
8. The yardage tapes are numbered from 16 to 58. Now that you have sighted in at 20 yards and 40 yards, use the following procedure to select the correct tape:
 - a. Subtract your 20 yard setting (Example: 18) from your 40 yard setting (Example 37 ½) Answer= 19 ½.
 - b. Using the CONVERSION CHART on the following page, select the correct tape.

OPTIMIZER LITE CONVERSION CHART
20 yard and 40 yard sightings

If your 40 yard setting

	<p>Less your 20 yard setting = 7 Use Tape 16 17 Use Tape 37</p> <p>7 1/2 “ “ 17 17 1/2 “ “ 38</p> <p>8 “ “ 18 18 “ “ 39</p> <p>8 1/2 “ “ 19 18 1/2 “ “ 40</p> <p>9 “ “ 20 19 “ “ 41</p> <p>9 1/2 “ “ 22 19 1/2 “ “ 43</p> <p>10 “ “ 23 20 “ “ 44</p> <p>10 1/2 “ “ 24 20 1/2 “ “ 45</p> <p>11 “ “ 25 21 “ “ 46</p> <p>11 1/2 “ “ 26 21 1/2 “ “ 47</p> <p>12 “ “ 27 22 “ “ 48</p> <p>12 1/2 “ “ 28 22 1/2 “ “ 49</p> <p>13 “ “ 29 23 “ “ 50</p> <p>13 1/2 “ “ 30 23 1/2 “ “ 51</p> <p>14 “ “ 31 24 “ “ 52</p> <p>14 1/2 “ “ 32 24 1/2 “ “ 53</p> <p>15 “ “ 33 25 “ “ 55</p> <p>15 1/2 “ “ 34 25 1/2 “ “ 56</p> <p>16 “ “ 35 26 “ “ 57</p> <p>16 1/2 “ “ 36 26 1/2 “ “ 58</p>
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Example:

$$\begin{array}{r}
 40 \text{ yards: } 37 \frac{1}{2} \\
 20 \text{ yards: } \underline{-18} \\
 \hline
 19 \frac{1}{2} = \text{Use Tape } 43
 \end{array}$$

9. Remove the sight in tape from the fan. Carefully remove the correct tape from the booklet and trim the excess unprinted material from the tape using a sharp scissors. Locate the color coded yardage tape by placing the 40 yard marker directly under the needle that you have locked in at 40 yards. Carefully roll the tape in both directions. The 20 yard marker will fall exactly where you marked your 20 yard setting on the 0-65 tape. All of the yardages between 20 and 60 are now in place.
10. Assure that all your yardages are correct. Remove one of the Mylar clear decals from the set up kit and overlay the yardage tape. This will prevent the ends of the yardage tape from becoming loose and seal it against moisture.