

1715 In Disgrace



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Instructions

Thank you for choosing Golden Kite products!
We hope you will have lots of fun with this cross-stitch pattern!

Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

On large patterns, it is easiest to start from the upper left corner of the design. Make sure you have the proper margins before starting and that the fabric piece is of the correct size. The best way to verify this is to count all stitch positions on the fabric from the upper left corner downwards and to the right to make sure there is enough space for the design.

Some prefer to start in the center of the design instead. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

Stitches

Each length of DMC tread consists of six strands.
Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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In Disgrace

| Stitch Count | |
|--------------|-----|
| Horizontal: | 300 |
| Vertical: | 457 |

| Recommended Fabric Color |
|--------------------------|
| Antique White. |

This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.

| | 14 | | | | 16 | | | | 18 | | | |
|--------------------|-------|-------|--------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| | Width | | Height | | Width | | Height | | Width | | Height | |
| | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch |
| Pattern: | 55 | 21,37 | 83 | 32,62 | 48 | 18,7 | 73 | 28,54 | 43 | 16,625 | 65 | 25,375 |
| Including Margins: | 71 | 28 | 99 | 39 | 64 | 25 | 89 | 35 | 59 | 23 | 81 | 32 |
| | 10 | | | | 12 | | | | 24 | | | |
| | Width | | Height | | Width | | Height | | Width | | Height | |
| | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch |
| Pattern: | 77 | 29,91 | 116 | 45,66 | 64 | 24,93 | 96 | 38,05 | 32 | 12,46 | 48 | 19,02 |
| Including Margins: | 93 | 36 | 132 | 52 | 80 | 31 | 112 | 45 | 48 | 19 | 64 | 26 |
| | 25 | | | | 26 | | | | 27 | | | |
| | Width | | Height | | Width | | Height | | Width | | Height | |
| | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch |
| Pattern: | 30 | 11,96 | 46 | 18,26 | 29 | 11,5 | 44 | 17,56 | 28 | 11,08 | 43 | 16,91 |
| Including Margins: | 46 | 18 | 62 | 25 | 45 | 18 | 60 | 24 | 44 | 18 | 59 | 23 |
| | 28 | | | | 30 | | | | 32 | | | |
| | Width | | Height | | Width | | Height | | Width | | Height | |
| | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch | cm | inch |
| Pattern: | 27 | 10,68 | 41 | 16,31 | 25 | 9,97 | 38 | 15,22 | 24 | 9,34 | 36 | 14,27 |
| Including Margins: | 43 | 17 | 57 | 23 | 41 | 16 | 54 | 22 | 40 | 16 | 52 | 21 |

Solid Color Stitches. Use two strands of the specified color for these stitches.

| Symbol | DMC | Name |
|--------|-----|----------------------|
| ⦿ | 224 | Shell Pink-VY LT |
| ➔ | 300 | Mahogany-VY DK |
| ■ | 310 | Black |
| ⌘ | 320 | Pistachio Green-MD |
| : | 353 | Peach |
| ♦ | 367 | Pistachio Green-DK |
| ⦿ | 370 | Mustard-MD |
| ■ | 371 | Mustard |
| ⦿ | 407 | Desert Sand-DK |
| ⦿ | 420 | Hazelnut Brown-DK |
| ⦿ | 433 | Brown-MD |
| ⦿ | 434 | Brown-LT |
| ⦿ | 435 | Brown-VY LT |
| ⦿ | 436 | Tan |
| ∇ | 437 | Tan-LT |
| ● | 500 | Blue Green-VY DK |
| ● | 501 | Blue Green-DK |
| ★ | 502 | Blue Green |
| × | 503 | Blue Green-MD |
| ⌘ | 522 | Fern Green |
| ⦿ | 523 | Fern Green-LT |
| ⦿ | 543 | Beige Brown-UL VY LT |
| ⦿ | 564 | Jade-VY LT |
| ● | 610 | Drab Brown-DK |
| ⦿ | 611 | Drab Brown |
| ■ | 632 | Desert Sand-UL VY DK |
| ⦿ | 640 | Beige Gray-VY DK |
| ∩ | 642 | Beige Gray-DK |
| ? | 644 | Beige Gray-MD |
| ⦿ | 645 | Beaver Gray-VY DK |
| ⦿ | 646 | Beaver Gray-DK |
| ⦿ | 647 | Beaver Gray-MD |
| :: | 648 | Beaver Gray-LT |
| ○ | 712 | Cream |
| ⦿ | 730 | Olive Green-VY DK |
| m | 738 | Tan-VY LT |
| « | 746 | Off White |
| 4 | 754 | Peach-LT |
| ∇ | 772 | Yellow Green-VY LT |
| ▲ | 829 | Golden Olive-VY DK |
| ↑ | 838 | Beige Brown-VY DK |
| ▲ | 839 | Beige Brown-DK |
| 7 | 842 | Beige Brown-VY LT |
| ◀ | 869 | Hazelnut Brown-VY DK |
| ◆ | 898 | Coffee Brown-VY DK |
| ⦿ | 927 | Gray Green-LT |
| ↑ | 928 | Gray Green-VY LT |
| ⦿ | 938 | Coffee Brown-UL DK |
| 9 | 945 | Tawny |
| 5 | 950 | Desert Sand-LT |
| ○ | 964 | Sea Green-LT |
| ● | 975 | Golden Brown-DK |
| ✱ | 986 | Forest Green-VY DK |

| | | |
|----|------|----------------------|
| ‡ | 992 | Aquamarine-MD |
| # | 993 | Aquamarine-LT |
| * | 3011 | Khaki Green-DK |
| H | 3013 | Khaki Green-LT |
| e | 3024 | Brown Gray-VY LT |
| ↖ | 3032 | Mocha Brown-MD |
| ▷ | 3047 | Yellow Beige-LT |
| ⋯ | 3052 | Green Gray-MD |
| ◎ | 3053 | Green Gray |
| ⊕ | 3072 | Beaver Gray-VY LT |
| ☾ | 3346 | Hunter Green |
| // | 3363 | Pine Green-MD |
| ■ | 3371 | Black Brown |
| (| 3756 | Baby Blue-UL VY LT |
| ^ | 3770 | Tawny-VY LT |
| × | 3782 | Mocha Brown-LT |
| ● | 3787 | Brown Gray-DK |
| ⚙ | 3790 | Beige Gray-UL DK |
| ↓ | 3799 | Pewter Gray-VY DK |
| ▲ | 3814 | Aquamarine |
| ✱ | 3815 | Celadon Green-DK |
| ⊗ | 3816 | Celadon Green-MD |
| ↘ | 3828 | Hazelnut Brown |
| ✱ | 3862 | Mocha Beige-DK |
| ✱ | 3863 | Mocha Beige-MD |
| 1 | 3865 | Winter White |
| ◇ | 3866 | Mocha Brown-UL VY LT |
| | Ecu | Ecu |

| Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches. | | | | |
|---|------|-----------------------|------|----------------------|
| Symbol | DMC1 | Name1 | DMC2 | Name2 |
| U | 1 | White 1 | 746 | Off White |
| ☆ | 224 | Shell Pink-VY LT | 613 | Drab Brown-VY LT |
| ☐ | 224 | Shell Pink-VY LT | 642 | Beige Gray-DK |
| ✓ | 224 | Shell Pink-VY LT | 3013 | Khaki Green-LT |
| ♣ | 300 | Mahogany-VY DK | 400 | Mahogany-DK |
| ⊗ | 300 | Mahogany-VY DK | 632 | Desert Sand-UL VY DK |
| ☐ | 300 | Mahogany-VY DK | 829 | Golden Olive-VY DK |
| ☐ | 300 | Mahogany-VY DK | 898 | Coffee Brown-VY DK |
| ☐ | 300 | Mahogany-VY DK | 938 | Coffee Brown-UL DK |
| ♣ | 300 | Mahogany-VY DK | 975 | Golden Brown-DK |
| L | 353 | Peach | 951 | Tawny-LT |
| < | 353 | Peach | 3770 | Tawny-VY LT |
| ♠ | 356 | Terra Cotta-MD | 436 | Tan |
| ⊗ | 356 | Terra Cotta-MD | 3032 | Mocha Brown-MD |
| ◀ | 356 | Terra Cotta-MD | 3828 | Hazelnut Brown |
| L | 356 | Terra Cotta-MD | 3863 | Mocha Beige-MD |
| ▶ | 367 | Pistachio Green-DK | 909 | Emerald Green-VY DK |
| ☐ | 367 | Pistachio Green-DK | 935 | Avocado Green-DK |
| ✓ | 369 | Pistachio Green-VY LT | 524 | Fern Green-VY LT |
| ∅ | 369 | Pistachio Green-VY LT | 543 | Beige Brown-UL VY LT |
| α | 369 | Pistachio Green-VY LT | 613 | Drab Brown-VY LT |
| / | 369 | Pistachio Green-VY LT | 738 | Tan-VY LT |

| | | | | |
|---|-----|-------------------|------|-----------------------|
| ☼ | 370 | Mustard-MD | 3828 | Hazelnut Brown |
| ☼ | 407 | Desert Sand-DK | 437 | Tan-LT |
| ☼ | 407 | Desert Sand-DK | 738 | Tan-VY LT |
| ☼ | 407 | Desert Sand-DK | 3856 | Mahogany-UL VY LT |
| ☼ | 413 | Pewter Gray-DK | 501 | Blue Green-DK |
| ☼ | 415 | Pearl Gray | 928 | Gray Green-VY LT |
| ☼ | 415 | Pearl Gray | 955 | Nile Green-LT |
| ☼ | 415 | Pearl Gray | 3024 | Brown Gray-VY LT |
| ☼ | 420 | Hazelnut Brown-DK | 434 | Brown-LT |
| ☼ | 420 | Hazelnut Brown-DK | 435 | Brown-VY LT |
| ☼ | 420 | Hazelnut Brown-DK | 869 | Hazelnut Brown-VY DK |
| ☼ | 433 | Brown-MD | 610 | Drab Brown-DK |
| ☼ | 433 | Brown-MD | 730 | Olive Green-VY DK |
| ☼ | 433 | Brown-MD | 869 | Hazelnut Brown-VY DK |
| ☼ | 433 | Brown-MD | 3011 | Khaki Green-DK |
| ☼ | 435 | Brown-VY LT | 3828 | Hazelnut Brown |
| ☼ | 435 | Brown-VY LT | 3862 | Mocha Beige-DK |
| ☼ | 436 | Tan | 437 | Tan-LT |
| ☼ | 436 | Tan | 612 | Drab Brown-LT |
| ☼ | 436 | Tan | 3828 | Hazelnut Brown |
| ☼ | 436 | Tan | 3863 | Mocha Beige-MD |
| ☼ | 437 | Tan-LT | 738 | Tan-VY LT |
| ☼ | 437 | Tan-LT | 3856 | Mahogany-UL VY LT |
| ☼ | 452 | Shell Gray-MD | 524 | Fern Green-VY LT |
| ☼ | 501 | Blue Green-DK | 3815 | Celadon Green-DK |
| ☼ | 502 | Blue Green | 522 | Fern Green |
| ☼ | 502 | Blue Green | 645 | Beaver Gray-VY DK |
| ☼ | 503 | Blue Green-MD | 646 | Beaver Gray-DK |
| ☼ | 503 | Blue Green-MD | 913 | Nile Green-MD |
| ☼ | 503 | Blue Green-MD | 927 | Gray Green-LT |
| ☼ | 522 | Fern Green | 645 | Beaver Gray-VY DK |
| ☼ | 522 | Fern Green | 3022 | Brown Gray-MD |
| ☼ | 522 | Fern Green | 3053 | Green Gray |
| ☼ | 523 | Fern Green-LT | 524 | Fern Green-VY LT |
| ☼ | 524 | Fern Green-VY LT | 564 | Jade-VY LT |
| ☼ | 524 | Fern Green-VY LT | 613 | Drab Brown-VY LT |
| ☼ | 524 | Fern Green-VY LT | 644 | Beige Gray-MD |
| ☼ | 524 | Fern Green-VY LT | 3046 | Yellow Beige-MD |
| ☼ | 524 | Fern Green-VY LT | 3348 | Yellow Green-LT |
| ☼ | 564 | Jade-VY LT | 648 | Beaver Gray-LT |
| ☼ | 564 | Jade-VY LT | 3046 | Yellow Beige-MD |
| ☼ | 610 | Drab Brown-DK | 844 | Beaver Brown-UL DK |
| ☼ | 610 | Drab Brown-DK | 3362 | Pine Green-DK |
| ☼ | 611 | Drab Brown | 3011 | Khaki Green-DK |
| ☼ | 611 | Drab Brown | 3052 | Green Gray-MD |
| ☼ | 613 | Drab Brown-VY LT | 677 | Old Gold-VY LT |
| ☼ | 613 | Drab Brown-VY LT | 738 | Tan-VY LT |
| ☼ | 613 | Drab Brown-VY LT | 3046 | Yellow Beige-MD |
| ☼ | 613 | Drab Brown-VY LT | 3047 | Yellow Beige-LT |
| ☼ | 640 | Beige Gray-VY DK | 642 | Beige Gray-DK |
| ☼ | 642 | Beige Gray-DK | 3013 | Khaki Green-LT |
| ☼ | 645 | Beaver Gray-VY DK | 3363 | Pine Green-MD |
| ☼ | 647 | Beaver Gray-MD | 3022 | Brown Gray-MD |
| ☼ | 648 | Beaver Gray-LT | 928 | Gray Green-VY LT |
| ☼ | 712 | Cream | 746 | Off White |
| ☼ | 712 | Cream | 762 | Pearl Gray-VY LT |
| ☼ | 712 | Cream | 955 | Nile Green-LT |
| ☼ | 712 | Cream | 3753 | Antique Blue-UL VY LT |
| ☼ | 712 | Cream | 3756 | Baby Blue-UL VY LT |

| | | | | |
|---|------|-----------------------|------|-----------------------|
| n | 712 | Cream | 3865 | Winter White |
| ■ | 730 | Olive Green-VY DK | 3051 | Green Gray-DK |
| □ | 738 | Tan-VY LT | 754 | Peach-LT |
| ◇ | 738 | Tan-VY LT | 3013 | Khaki Green-LT |
| ○ | 739 | Tan-UL VY LT | 772 | Yellow Green-VY LT |
| c | 739 | Tan-UL VY LT | 950 | Desert Sand-LT |
| ∞ | 746 | Off White | 3770 | Tawny-VY LT |
| ∞ | 746 | Off White | 3823 | Yellow-UL Pale |
|) | 822 | Beige Gray-LT | 3823 | Yellow-UL Pale |
| ⦿ | 829 | Golden Olive-VY DK | 898 | Coffee Brown-VY DK |
| ▼ | 829 | Golden Olive-VY DK | 3051 | Green Gray-DK |
| ✕ | 838 | Beige Brown-VY DK | 3857 | Rosewood-DK |
| ↓ | 844 | Beaver Brown-UL DK | 3021 | Brown Gray-VY DK |
| ⊗ | 869 | Hazelnut Brown-VY DK | 975 | Golden Brown-DK |
| ✕ | 898 | Coffee Brown-VY DK | 935 | Avocado Green-DK |
| ■ | 898 | Coffee Brown-VY DK | 3051 | Green Gray-DK |
| = | 928 | Gray Green-VY LT | 932 | Antique Blue-LT |
| 3 | 928 | Gray Green-VY LT | 955 | Nile Green-LT |
| ● | 934 | Black Avocado Green | 3371 | Black Brown |
| ● | 934 | Black Avocado Green | 3799 | Pewter Gray-VY DK |
| ← | 935 | Avocado Green-DK | 3051 | Green Gray-DK |
| ⊗ | 938 | Coffee Brown-UL DK | 3371 | Black Brown |
| > | 951 | Tawny-LT | 3078 | Golden Yellow-VY LT |
| 8 | 955 | Nile Green-LT | 3024 | Brown Gray-VY LT |
| △ | 955 | Nile Green-LT | 3753 | Antique Blue-UL VY LT |
| Λ | 977 | Golden Brown-LT | 3828 | Hazelnut Brown |
| ♥ | 3021 | Brown Gray-VY DK | 3371 | Black Brown |
| ◇ | 3023 | Brown Gray-LT | 3861 | Cocoa-LT |
| 5 | 3046 | Yellow Beige-MD | 3348 | Yellow Green-LT |
| † | 3051 | Green Gray-DK | 3781 | Mocha Brown-DK |
| ‡ | 3052 | Green Gray-MD | 3364 | Pine Green |
| = | 3346 | Hunter Green | 3362 | Pine Green-DK |
| ≡ | 3346 | Hunter Green | 3787 | Brown Gray-DK |
| ≡ | 3752 | Antique Blue-VY LT | 3753 | Antique Blue-UL VY LT |
| ⇒ | 3753 | Antique Blue-UL VY LT | 3866 | Mocha Brown-UL VY LT |
| × | 3828 | Hazelnut Brown | 3862 | Mocha Beige-DK |
| * | 3828 | Hazelnut Brown | 3863 | Mocha Beige-MD |
| . | 3866 | Mocha Brown-UL VY LT | ecru | Ecru |

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

| DMC | Name | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
|-----|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| | | 14 | | 16 | | 18 | |
| 1 | White 1 | 617 | 242 | 588 | 231 | 529 | 208 |
| 224 | Shell Pink-VY LT | 30 | 11 | 28 | 11 | 26 | 10 |
| 300 | Mahogany-VY DK | 968 | 381 | 922 | 362 | 830 | 326 |
| 310 | Black | 191 | 75 | 182 | 71 | 164 | 64 |
| 320 | Pistachio Green-MD | 8 | 3 | 7 | 2 | 7 | 2 |
| 353 | Peach | 16 | 6 | 16 | 6 | 14 | 5 |
| 356 | Terra Cotta-MD | 36 | 14 | 34 | 13 | 31 | 12 |
| 367 | Pistachio Green-DK | 35 | 13 | 34 | 13 | 30 | 11 |
| 369 | Pistachio Green-VY LT | 2598 | 1022 | 2474 | 974 | 2227 | 876 |
| 370 | Mustard-MD | 15 | 5 | 14 | 5 | 13 | 5 |
| 371 | Mustard | 50 | 19 | 48 | 18 | 43 | 16 |
| 400 | Mahogany-DK | 36 | 14 | 34 | 13 | 31 | 12 |
| 407 | Desert Sand-DK | 88 | 34 | 84 | 33 | 75 | 29 |
| 413 | Pewter Gray-DK | 13 | 5 | 12 | 4 | 11 | 4 |
| 415 | Pearl Gray | 80 | 31 | 76 | 29 | 69 | 27 |
| 420 | Hazelnut Brown-DK | 310 | 122 | 296 | 116 | 266 | 104 |
| 433 | Brown-MD | 340 | 133 | 324 | 127 | 292 | 114 |
| 434 | Brown-LT | 165 | 64 | 157 | 61 | 141 | 55 |
| 435 | Brown-VY LT | 200 | 78 | 190 | 74 | 171 | 67 |
| 436 | Tan | 173 | 68 | 165 | 64 | 149 | 58 |
| 437 | Tan-LT | 110 | 43 | 105 | 41 | 95 | 37 |
| 452 | Shell Gray-MD | 57 | 22 | 54 | 21 | 49 | 19 |
| 500 | Blue Green-VY DK | 24 | 9 | 23 | 9 | 21 | 8 |
| 501 | Blue Green-DK | 27 | 10 | 25 | 9 | 23 | 9 |
| 502 | Blue Green | 131 | 51 | 125 | 49 | 112 | 44 |
| 503 | Blue Green-MD | 162 | 63 | 154 | 60 | 139 | 54 |
| 522 | Fern Green | 594 | 233 | 566 | 222 | 509 | 200 |
| 523 | Fern Green-LT | 608 | 239 | 579 | 227 | 521 | 205 |
| 524 | Fern Green-VY LT | 2425 | 954 | 2310 | 909 | 2079 | 818 |
| 543 | Beige Brown-UL VY LT | 552 | 217 | 526 | 207 | 473 | 186 |
| 564 | Jade-VY LT | 751 | 295 | 716 | 281 | 644 | 253 |
| 610 | Drab Brown-DK | 246 | 96 | 234 | 92 | 211 | 83 |
| 611 | Drab Brown | 315 | 124 | 300 | 118 | 270 | 106 |
| 612 | Drab Brown-LT | 43 | 16 | 41 | 16 | 37 | 14 |
| 613 | Drab Brown-VY LT | 3009 | 1184 | 2866 | 1128 | 2579 | 1015 |
| 632 | Desert Sand-UL VY DK | 166 | 65 | 158 | 62 | 143 | 56 |
| 640 | Beige Gray-VY DK | 114 | 44 | 108 | 42 | 97 | 38 |
| 642 | Beige Gray-DK | 161 | 63 | 154 | 60 | 138 | 54 |
| 644 | Beige Gray-MD | 734 | 288 | 699 | 275 | 630 | 248 |
| 645 | Beaver Gray-VY DK | 228 | 89 | 217 | 85 | 195 | 76 |
| 646 | Beaver Gray-DK | 129 | 50 | 123 | 48 | 111 | 43 |
| 647 | Beaver Gray-MD | 263 | 103 | 250 | 98 | 225 | 88 |
| 648 | Beaver Gray-LT | 299 | 117 | 285 | 112 | 256 | 100 |
| 677 | Old Gold-VY LT | 1364 | 537 | 1299 | 511 | 1169 | 460 |
| 712 | Cream | 1595 | 627 | 1519 | 598 | 1368 | 538 |
| 730 | Olive Green-VY DK | 116 | 45 | 111 | 43 | 100 | 39 |
| 738 | Tan-VY LT | 794 | 312 | 756 | 297 | 680 | 267 |
| 739 | Tan-UL VY LT | 738 | 290 | 703 | 276 | 633 | 249 |
| 746 | Off White | 1554 | 611 | 1480 | 582 | 1332 | 524 |
| 754 | Peach-LT | 19 | 7 | 19 | 7 | 17 | 6 |
| 762 | Pearl Gray-VY LT | 97 | 38 | 92 | 36 | 83 | 32 |
| 772 | Yellow Green-VY LT | 745 | 293 | 709 | 279 | 638 | 251 |
| 822 | Beige Gray-LT | 313 | 123 | 298 | 117 | 268 | 105 |

| | | | | | | | |
|------|-----------------------|------|-----|------|-----|------|-----|
| 829 | Golden Olive-VY DK | 325 | 127 | 310 | 122 | 279 | 109 |
| 838 | Beige Brown-VY DK | 54 | 21 | 51 | 20 | 46 | 18 |
| 839 | Beige Brown-DK | 45 | 17 | 43 | 16 | 39 | 15 |
| 842 | Beige Brown-VY LT | 37 | 14 | 35 | 13 | 32 | 12 |
| 844 | Beaver Brown-UL DK | 65 | 25 | 62 | 24 | 55 | 21 |
| 869 | Hazelnut Brown-VY DK | 526 | 207 | 501 | 197 | 451 | 177 |
| 898 | Coffee Brown-VY DK | 407 | 160 | 388 | 152 | 349 | 137 |
| 909 | Emerald Green-VY DK | 3 | 1 | 3 | 1 | 3 | 1 |
| 913 | Nile Green-MD | 11 | 4 | 10 | 3 | 9 | 3 |
| 927 | Gray Green-LT | 130 | 51 | 124 | 48 | 112 | 44 |
| 928 | Gray Green-VY LT | 253 | 99 | 241 | 94 | 217 | 85 |
| 932 | Antique Blue-LT | 12 | 4 | 12 | 4 | 10 | 3 |
| 934 | Black Avocado Green | 32 | 12 | 31 | 12 | 28 | 11 |
| 935 | Avocado Green-DK | 126 | 49 | 120 | 47 | 108 | 42 |
| 938 | Coffee Brown-UL DK | 576 | 226 | 549 | 216 | 494 | 194 |
| 945 | Tawny | 11 | 4 | 11 | 4 | 10 | 3 |
| 950 | Desert Sand-LT | 24 | 9 | 23 | 9 | 21 | 8 |
| 951 | Tawny-LT | 109 | 42 | 104 | 40 | 94 | 37 |
| 955 | Nile Green-LT | 727 | 286 | 692 | 272 | 623 | 245 |
| 964 | Sea Green-LT | 12 | 4 | 11 | 4 | 10 | 3 |
| 975 | Golden Brown-DK | 318 | 125 | 303 | 119 | 273 | 107 |
| 977 | Golden Brown-LT | 8 | 3 | 8 | 3 | 7 | 2 |
| 986 | Forest Green-VY DK | 6 | 2 | 6 | 2 | 5 | 1 |
| 992 | Aquamarine-MD | 5 | 1 | 5 | 1 | 4 | 1 |
| 993 | Aquamarine-LT | 18 | 7 | 17 | 6 | 16 | 6 |
| 3011 | Khaki Green-DK | 303 | 119 | 289 | 113 | 260 | 102 |
| 3013 | Khaki Green-LT | 163 | 64 | 156 | 61 | 140 | 55 |
| 3021 | Brown Gray-VY DK | 59 | 23 | 56 | 22 | 50 | 19 |
| 3022 | Brown Gray-MD | 121 | 47 | 115 | 45 | 104 | 40 |
| 3023 | Brown Gray-LT | 19 | 7 | 18 | 7 | 16 | 6 |
| 3024 | Brown Gray-VY LT | 335 | 131 | 319 | 125 | 287 | 112 |
| 3032 | Mocha Brown-MD | 100 | 39 | 96 | 37 | 86 | 33 |
| 3046 | Yellow Beige-MD | 708 | 278 | 675 | 265 | 607 | 238 |
| 3047 | Yellow Beige-LT | 2224 | 875 | 2118 | 833 | 1907 | 750 |
| 3051 | Green Gray-DK | 233 | 91 | 222 | 87 | 199 | 78 |
| 3052 | Green Gray-MD | 401 | 157 | 382 | 150 | 344 | 135 |
| 3053 | Green Gray | 363 | 142 | 345 | 135 | 311 | 122 |
| 3072 | Beaver Gray-VY LT | 391 | 153 | 372 | 146 | 335 | 131 |
| 3078 | Golden Yellow-VY LT | 102 | 40 | 97 | 38 | 87 | 34 |
| 3346 | Hunter Green | 39 | 15 | 37 | 14 | 34 | 13 |
| 3348 | Yellow Green-LT | 318 | 125 | 303 | 119 | 273 | 107 |
| 3362 | Pine Green-DK | 58 | 22 | 55 | 21 | 49 | 19 |
| 3363 | Pine Green-MD | 222 | 87 | 211 | 83 | 190 | 74 |
| 3364 | Pine Green | 36 | 14 | 34 | 13 | 31 | 12 |
| 3371 | Black Brown | 393 | 154 | 374 | 147 | 337 | 132 |
| 3752 | Antique Blue-VY LT | 8 | 3 | 8 | 3 | 7 | 2 |
| 3753 | Antique Blue-UL VY LT | 298 | 117 | 283 | 111 | 255 | 100 |
| 3756 | Baby Blue-UL VY LT | 403 | 158 | 384 | 151 | 346 | 136 |
| 3770 | Tawny-VY LT | 93 | 36 | 88 | 34 | 80 | 31 |
| 3781 | Mocha Brown-DK | 44 | 17 | 42 | 16 | 38 | 14 |
| 3782 | Mocha Brown-LT | 85 | 33 | 81 | 31 | 73 | 28 |
| 3787 | Brown Gray-DK | 90 | 35 | 86 | 33 | 77 | 30 |
| 3790 | Beige Gray-UL DK | 84 | 33 | 80 | 31 | 72 | 28 |
| 3799 | Pewter Gray-VY DK | 30 | 11 | 29 | 11 | 26 | 10 |
| 3814 | Aquamarine | 8 | 3 | 8 | 3 | 7 | 2 |
| 3815 | Celadon Green-DK | 17 | 6 | 16 | 6 | 14 | 5 |
| 3816 | Celadon Green-MD | 18 | 7 | 17 | 6 | 15 | 5 |
| 3823 | Yellow-UL Pale | 361 | 142 | 344 | 135 | 310 | 122 |
| 3828 | Hazelnut Brown | 193 | 75 | 184 | 72 | 166 | 65 |

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| | | | | | | | |
|------|----------------------|-----|-----|-----|-----|-----|-----|
| 3856 | Mahogany-UL VY LT | 22 | 8 | 21 | 8 | 19 | 7 |
| 3857 | Rosewood-DK | 23 | 9 | 22 | 8 | 20 | 7 |
| 3861 | Cocoa-LT | 19 | 7 | 18 | 7 | 16 | 6 |
| 3862 | Mocha Beige-DK | 257 | 101 | 245 | 96 | 220 | 86 |
| 3863 | Mocha Beige-MD | 95 | 37 | 91 | 35 | 82 | 32 |
| 3865 | Winter White | 563 | 221 | 536 | 211 | 482 | 189 |
| 3866 | Mocha Brown-UL VY LT | 703 | 276 | 670 | 263 | 603 | 237 |
| ecru | Ecru | 456 | 179 | 434 | 170 | 391 | 153 |

| Extended thread usage table. | | | | | | | |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC | Name | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
| | | 10 | | 12 | | 24 | |
| 1 | White 1 | 952 | 374 | 794 | 312 | 397 | 156 |
| 224 | Shell Pink-VY LT | 47 | 18 | 39 | 15 | 20 | 8 |
| 300 | Mahogany-VY DK | 1494 | 587 | 1245 | 489 | 623 | 245 |
| 310 | Black | 295 | 115 | 246 | 96 | 123 | 48 |
| 320 | Pistachio Green-MD | 13 | 4 | 11 | 3 | 5 | 2 |
| 353 | Peach | 25 | 9 | 21 | 8 | 11 | 4 |
| 356 | Terra Cotta-MD | 56 | 22 | 47 | 18 | 23 | 9 |
| 367 | Pistachio Green-DK | 54 | 20 | 45 | 17 | 23 | 8 |
| 369 | Pistachio Green-VY LT | 4009 | 1577 | 3341 | 1314 | 1670 | 657 |
| 370 | Mustard-MD | 23 | 9 | 20 | 8 | 10 | 4 |
| 371 | Mustard | 77 | 29 | 65 | 24 | 32 | 12 |
| 400 | Mahogany-DK | 56 | 22 | 47 | 18 | 23 | 9 |
| 407 | Desert Sand-DK | 135 | 52 | 113 | 44 | 56 | 22 |
| 413 | Pewter Gray-DK | 20 | 7 | 17 | 6 | 8 | 3 |
| 415 | Pearl Gray | 124 | 49 | 104 | 41 | 52 | 20 |
| 420 | Hazelnut Brown-DK | 479 | 187 | 399 | 156 | 200 | 78 |
| 433 | Brown-MD | 526 | 205 | 438 | 171 | 219 | 86 |
| 434 | Brown-LT | 254 | 99 | 212 | 83 | 106 | 41 |
| 435 | Brown-VY LT | 308 | 121 | 257 | 101 | 128 | 50 |
| 436 | Tan | 268 | 104 | 224 | 87 | 112 | 44 |
| 437 | Tan-LT | 171 | 67 | 143 | 56 | 71 | 28 |
| 452 | Shell Gray-MD | 88 | 34 | 74 | 29 | 37 | 14 |
| 500 | Blue Green-VY DK | 38 | 14 | 32 | 12 | 16 | 6 |
| 501 | Blue Green-DK | 41 | 16 | 35 | 14 | 17 | 7 |
| 502 | Blue Green | 202 | 79 | 168 | 66 | 84 | 33 |
| 503 | Blue Green-MD | 250 | 97 | 209 | 81 | 104 | 41 |
| 522 | Fern Green | 916 | 360 | 764 | 300 | 382 | 150 |
| 523 | Fern Green-LT | 938 | 369 | 782 | 308 | 391 | 154 |
| 524 | Fern Green-VY LT | 3742 | 1472 | 3119 | 1227 | 1559 | 614 |
| 543 | Beige Brown-UL VY LT | 851 | 335 | 710 | 279 | 355 | 140 |
| 564 | Jade-VY LT | 1159 | 455 | 966 | 380 | 483 | 190 |
| 610 | Drab Brown-DK | 380 | 149 | 317 | 125 | 158 | 62 |
| 611 | Drab Brown | 486 | 191 | 405 | 159 | 203 | 80 |
| 612 | Drab Brown-LT | 67 | 25 | 56 | 21 | 28 | 11 |
| 613 | Drab Brown-VY LT | 4642 | 1827 | 3869 | 1523 | 1934 | 761 |
| 632 | Desert Sand-UL VY DK | 257 | 101 | 215 | 84 | 107 | 42 |
| 640 | Beige Gray-VY DK | 175 | 68 | 146 | 57 | 73 | 29 |
| 642 | Beige Gray-DK | 248 | 97 | 207 | 81 | 104 | 41 |
| 644 | Beige Gray-MD | 1134 | 446 | 945 | 372 | 473 | 186 |
| 645 | Beaver Gray-VY DK | 351 | 137 | 293 | 114 | 146 | 57 |
| 646 | Beaver Gray-DK | 200 | 77 | 167 | 65 | 83 | 32 |
| 647 | Beaver Gray-MD | 405 | 158 | 338 | 132 | 169 | 66 |
| 648 | Beaver Gray-LT | 461 | 180 | 384 | 150 | 192 | 75 |
| 677 | Old Gold-VY LT | 2104 | 828 | 1754 | 690 | 877 | 345 |

| | | | | | | | |
|------|-----------------------|------|------|------|------|------|-----|
| 712 | Cream | 2462 | 968 | 2052 | 807 | 1026 | 404 |
| 730 | Olive Green-VY DK | 180 | 70 | 150 | 59 | 75 | 29 |
| 738 | Tan-VY LT | 1224 | 481 | 1020 | 401 | 510 | 200 |
| 739 | Tan-UL VY LT | 1139 | 448 | 950 | 374 | 475 | 187 |
| 746 | Off White | 2398 | 943 | 1998 | 786 | 999 | 393 |
| 754 | Peach-LT | 31 | 11 | 26 | 9 | 13 | 5 |
| 762 | Pearl Gray-VY LT | 149 | 58 | 125 | 48 | 62 | 24 |
| 772 | Yellow Green-VY LT | 1148 | 452 | 957 | 377 | 479 | 188 |
| 822 | Beige Gray-LT | 482 | 189 | 402 | 158 | 201 | 79 |
| 829 | Golden Olive-VY DK | 502 | 196 | 419 | 164 | 209 | 82 |
| 838 | Beige Brown-VY DK | 83 | 32 | 69 | 27 | 35 | 14 |
| 839 | Beige Brown-DK | 70 | 27 | 59 | 23 | 29 | 11 |
| 842 | Beige Brown-VY LT | 58 | 22 | 48 | 18 | 24 | 9 |
| 844 | Beaver Brown-UL DK | 99 | 38 | 83 | 32 | 41 | 16 |
| 869 | Hazelnut Brown-VY DK | 812 | 319 | 677 | 266 | 338 | 133 |
| 898 | Coffee Brown-VY DK | 628 | 247 | 524 | 206 | 262 | 103 |
| 909 | Emerald Green-VY DK | 5 | 2 | 5 | 2 | 2 | 1 |
| 913 | Nile Green-MD | 16 | 5 | 14 | 5 | 7 | 2 |
| 927 | Gray Green-LT | 202 | 79 | 168 | 66 | 84 | 33 |
| 928 | Gray Green-VY LT | 391 | 153 | 326 | 128 | 163 | 64 |
| 932 | Antique Blue-LT | 18 | 5 | 15 | 5 | 8 | 2 |
| 934 | Black Avocado Green | 50 | 20 | 42 | 17 | 21 | 8 |
| 935 | Avocado Green-DK | 194 | 76 | 162 | 63 | 81 | 32 |
| 938 | Coffee Brown-UL DK | 889 | 349 | 741 | 291 | 371 | 146 |
| 945 | Tawny | 18 | 5 | 15 | 5 | 8 | 2 |
| 950 | Desert Sand-LT | 38 | 14 | 32 | 12 | 16 | 6 |
| 951 | Tawny-LT | 169 | 67 | 141 | 56 | 71 | 28 |
| 955 | Nile Green-LT | 1121 | 441 | 935 | 368 | 467 | 184 |
| 964 | Sea Green-LT | 18 | 5 | 15 | 5 | 8 | 2 |
| 975 | Golden Brown-DK | 491 | 193 | 410 | 161 | 205 | 80 |
| 977 | Golden Brown-LT | 13 | 4 | 11 | 3 | 5 | 2 |
| 986 | Forest Green-VY DK | 9 | 2 | 8 | 2 | 4 | 1 |
| 992 | Aquamarine-MD | 7 | 2 | 6 | 2 | 3 | 1 |
| 993 | Aquamarine-LT | 29 | 11 | 24 | 9 | 12 | 5 |
| 3011 | Khaki Green-DK | 468 | 184 | 390 | 153 | 195 | 77 |
| 3013 | Khaki Green-LT | 252 | 99 | 210 | 83 | 105 | 41 |
| 3021 | Brown Gray-VY DK | 90 | 34 | 75 | 29 | 38 | 14 |
| 3022 | Brown Gray-MD | 187 | 72 | 156 | 60 | 78 | 30 |
| 3023 | Brown Gray-LT | 29 | 11 | 24 | 9 | 12 | 5 |
| 3024 | Brown Gray-VY LT | 517 | 202 | 431 | 168 | 215 | 84 |
| 3032 | Mocha Brown-MD | 155 | 59 | 129 | 50 | 65 | 25 |
| 3046 | Yellow Beige-MD | 1093 | 428 | 911 | 357 | 455 | 179 |
| 3047 | Yellow Beige-LT | 3433 | 1350 | 2861 | 1125 | 1430 | 563 |
| 3051 | Green Gray-DK | 358 | 140 | 299 | 117 | 149 | 59 |
| 3052 | Green Gray-MD | 619 | 243 | 516 | 203 | 258 | 101 |
| 3053 | Green Gray | 560 | 220 | 467 | 183 | 233 | 92 |
| 3072 | Beaver Gray-VY LT | 603 | 236 | 503 | 197 | 251 | 98 |
| 3078 | Golden Yellow-VY LT | 157 | 61 | 131 | 51 | 65 | 26 |
| 3346 | Hunter Green | 61 | 23 | 51 | 20 | 26 | 10 |
| 3348 | Yellow Green-LT | 491 | 193 | 410 | 161 | 205 | 80 |
| 3362 | Pine Green-DK | 88 | 34 | 74 | 29 | 37 | 14 |
| 3363 | Pine Green-MD | 342 | 133 | 285 | 111 | 143 | 56 |
| 3364 | Pine Green | 56 | 22 | 47 | 18 | 23 | 9 |
| 3371 | Black Brown | 607 | 238 | 506 | 198 | 253 | 99 |
| 3752 | Antique Blue-VY LT | 13 | 4 | 11 | 3 | 5 | 2 |
| 3753 | Antique Blue-UL VY LT | 459 | 180 | 383 | 150 | 191 | 75 |
| 3756 | Baby Blue-UL VY LT | 623 | 245 | 519 | 204 | 260 | 102 |
| 3770 | Tawny-VY LT | 144 | 56 | 120 | 47 | 60 | 23 |
| 3781 | Mocha Brown-DK | 68 | 25 | 57 | 21 | 29 | 11 |

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| | | | | | | | |
|------|----------------------|------|-----|-----|-----|-----|-----|
| 3782 | Mocha Brown-LT | 131 | 50 | 110 | 42 | 55 | 21 |
| 3787 | Brown Gray-DK | 139 | 54 | 116 | 45 | 58 | 23 |
| 3790 | Beige Gray-UL DK | 130 | 50 | 108 | 42 | 54 | 21 |
| 3799 | Pewter Gray-VY DK | 47 | 18 | 39 | 15 | 20 | 8 |
| 3814 | Aquamarine | 13 | 4 | 11 | 3 | 5 | 2 |
| 3815 | Celadon Green-DK | 25 | 9 | 21 | 8 | 11 | 4 |
| 3816 | Celadon Green-MD | 27 | 9 | 23 | 8 | 11 | 4 |
| 3823 | Yellow-UL Pale | 558 | 220 | 465 | 183 | 233 | 92 |
| 3828 | Hazelnut Brown | 299 | 117 | 249 | 98 | 125 | 49 |
| 3856 | Mahogany-UL VY LT | 34 | 13 | 29 | 11 | 14 | 5 |
| 3857 | Rosewood-DK | 36 | 13 | 30 | 11 | 15 | 5 |
| 3861 | Cocoa-LT | 29 | 11 | 24 | 9 | 12 | 5 |
| 3862 | Mocha Beige-DK | 396 | 155 | 330 | 129 | 165 | 65 |
| 3863 | Mocha Beige-MD | 148 | 58 | 123 | 48 | 62 | 24 |
| 3865 | Winter White | 868 | 340 | 723 | 284 | 362 | 142 |
| 3866 | Mocha Brown-UL VY LT | 1085 | 427 | 905 | 356 | 452 | 178 |
| ecru | Ecru | 704 | 275 | 587 | 230 | 293 | 115 |

| Extended thread usage table. | | | | | | | |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC | Name | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
| | | 25 | | 26 | | 27 | |
| 1 | White 1 | 381 | 150 | 366 | 144 | 353 | 139 |
| 224 | Shell Pink-VY LT | 19 | 7 | 18 | 7 | 17 | 7 |
| 300 | Mahogany-VY DK | 598 | 235 | 575 | 226 | 553 | 217 |
| 310 | Black | 118 | 46 | 114 | 44 | 109 | 43 |
| 320 | Pistachio Green-MD | 5 | 1 | 5 | 1 | 5 | 1 |
| 353 | Peach | 10 | 4 | 10 | 3 | 9 | 3 |
| 356 | Terra Cotta-MD | 22 | 9 | 21 | 8 | 21 | 8 |
| 367 | Pistachio Green-DK | 22 | 8 | 21 | 8 | 20 | 7 |
| 369 | Pistachio Green-VY LT | 1603 | 631 | 1542 | 606 | 1485 | 584 |
| 370 | Mustard-MD | 9 | 4 | 9 | 3 | 9 | 3 |
| 371 | Mustard | 31 | 12 | 30 | 11 | 29 | 11 |
| 400 | Mahogany-DK | 22 | 9 | 21 | 8 | 21 | 8 |
| 407 | Desert Sand-DK | 54 | 21 | 52 | 20 | 50 | 19 |
| 413 | Pewter Gray-DK | 8 | 3 | 8 | 3 | 7 | 3 |
| 415 | Pearl Gray | 50 | 19 | 48 | 19 | 46 | 18 |
| 420 | Hazelnut Brown-DK | 192 | 75 | 184 | 72 | 177 | 69 |
| 433 | Brown-MD | 210 | 82 | 202 | 79 | 195 | 76 |
| 434 | Brown-LT | 102 | 40 | 98 | 38 | 94 | 37 |
| 435 | Brown-VY LT | 123 | 48 | 118 | 46 | 114 | 45 |
| 436 | Tan | 107 | 42 | 103 | 40 | 99 | 39 |
| 437 | Tan-LT | 68 | 27 | 66 | 26 | 63 | 25 |
| 452 | Shell Gray-MD | 35 | 14 | 34 | 13 | 33 | 13 |
| 500 | Blue Green-VY DK | 15 | 6 | 15 | 6 | 14 | 5 |
| 501 | Blue Green-DK | 17 | 6 | 16 | 6 | 15 | 6 |
| 502 | Blue Green | 81 | 32 | 78 | 30 | 75 | 29 |
| 503 | Blue Green-MD | 100 | 39 | 96 | 37 | 93 | 36 |
| 522 | Fern Green | 366 | 144 | 352 | 138 | 339 | 133 |
| 523 | Fern Green-LT | 375 | 148 | 361 | 142 | 347 | 137 |
| 524 | Fern Green-VY LT | 1497 | 589 | 1439 | 566 | 1386 | 545 |
| 543 | Beige Brown-UL VY LT | 341 | 134 | 327 | 129 | 315 | 124 |
| 564 | Jade-VY LT | 464 | 182 | 446 | 175 | 429 | 169 |
| 610 | Drab Brown-DK | 152 | 60 | 146 | 57 | 141 | 55 |
| 611 | Drab Brown | 194 | 76 | 187 | 73 | 180 | 71 |
| 612 | Drab Brown-LT | 27 | 10 | 26 | 10 | 25 | 9 |
| 613 | Drab Brown-VY LT | 1857 | 731 | 1785 | 703 | 1719 | 677 |

| | | | | | | | |
|------|----------------------|------|-----|------|-----|------|-----|
| 632 | Desert Sand-UL VY DK | 103 | 40 | 99 | 39 | 95 | 37 |
| 640 | Beige Gray-VY DK | 70 | 27 | 67 | 26 | 65 | 25 |
| 642 | Beige Gray-DK | 99 | 39 | 96 | 37 | 92 | 36 |
| 644 | Beige Gray-MD | 454 | 179 | 436 | 172 | 420 | 165 |
| 645 | Beaver Gray-VY DK | 140 | 55 | 135 | 53 | 130 | 51 |
| 646 | Beaver Gray-DK | 80 | 31 | 77 | 30 | 74 | 29 |
| 647 | Beaver Gray-MD | 162 | 63 | 156 | 61 | 150 | 59 |
| 648 | Beaver Gray-LT | 184 | 72 | 177 | 69 | 171 | 67 |
| 677 | Old Gold-VY LT | 842 | 331 | 809 | 318 | 779 | 307 |
| 712 | Cream | 985 | 387 | 947 | 372 | 912 | 359 |
| 730 | Olive Green-VY DK | 72 | 28 | 69 | 27 | 67 | 26 |
| 738 | Tan-VY LT | 490 | 192 | 471 | 185 | 453 | 178 |
| 739 | Tan-UL VY LT | 456 | 179 | 438 | 172 | 422 | 166 |
| 746 | Off White | 959 | 377 | 922 | 363 | 888 | 349 |
| 754 | Peach-LT | 12 | 4 | 12 | 4 | 11 | 4 |
| 762 | Pearl Gray-VY LT | 60 | 23 | 57 | 22 | 55 | 21 |
| 772 | Yellow Green-VY LT | 459 | 181 | 442 | 174 | 425 | 167 |
| 822 | Beige Gray-LT | 193 | 76 | 186 | 73 | 179 | 70 |
| 829 | Golden Olive-VY DK | 201 | 78 | 193 | 75 | 186 | 73 |
| 838 | Beige Brown-VY DK | 33 | 13 | 32 | 12 | 31 | 12 |
| 839 | Beige Brown-DK | 28 | 11 | 27 | 10 | 26 | 10 |
| 842 | Beige Brown-VY LT | 23 | 9 | 22 | 8 | 21 | 8 |
| 844 | Beaver Brown-UL DK | 40 | 15 | 38 | 15 | 37 | 14 |
| 869 | Hazelnut Brown-VY DK | 325 | 127 | 312 | 123 | 301 | 118 |
| 898 | Coffee Brown-VY DK | 251 | 99 | 242 | 95 | 233 | 91 |
| 909 | Emerald Green-VY DK | 2 | 1 | 2 | 1 | 2 | 1 |
| 913 | Nile Green-MD | 6 | 2 | 6 | 2 | 6 | 2 |
| 927 | Gray Green-LT | 81 | 32 | 78 | 30 | 75 | 29 |
| 928 | Gray Green-VY LT | 156 | 61 | 150 | 59 | 145 | 57 |
| 932 | Antique Blue-LT | 7 | 2 | 7 | 2 | 7 | 2 |
| 934 | Black Avocado Green | 20 | 8 | 19 | 8 | 19 | 7 |
| 935 | Avocado Green-DK | 78 | 30 | 75 | 29 | 72 | 28 |
| 938 | Coffee Brown-UL DK | 356 | 140 | 342 | 134 | 329 | 129 |
| 945 | Tawny | 7 | 2 | 7 | 2 | 7 | 2 |
| 950 | Desert Sand-LT | 15 | 6 | 15 | 6 | 14 | 5 |
| 951 | Tawny-LT | 68 | 27 | 65 | 26 | 63 | 25 |
| 955 | Nile Green-LT | 449 | 176 | 431 | 170 | 415 | 163 |
| 964 | Sea Green-LT | 7 | 2 | 7 | 2 | 7 | 2 |
| 975 | Golden Brown-DK | 197 | 77 | 189 | 74 | 182 | 71 |
| 977 | Golden Brown-LT | 5 | 1 | 5 | 1 | 5 | 1 |
| 986 | Forest Green-VY DK | 4 | 1 | 3 | 1 | 3 | 1 |
| 992 | Aquamarine-MD | 3 | 1 | 3 | 1 | 3 | 1 |
| 993 | Aquamarine-LT | 12 | 4 | 11 | 4 | 11 | 4 |
| 3011 | Khaki Green-DK | 187 | 73 | 180 | 71 | 173 | 68 |
| 3013 | Khaki Green-LT | 101 | 40 | 97 | 38 | 93 | 37 |
| 3021 | Brown Gray-VY DK | 36 | 14 | 35 | 13 | 33 | 13 |
| 3022 | Brown Gray-MD | 75 | 29 | 72 | 28 | 69 | 27 |
| 3023 | Brown Gray-LT | 12 | 4 | 11 | 4 | 11 | 4 |
| 3024 | Brown Gray-VY LT | 207 | 81 | 199 | 78 | 191 | 75 |
| 3032 | Mocha Brown-MD | 62 | 24 | 60 | 23 | 57 | 22 |
| 3046 | Yellow Beige-MD | 437 | 171 | 420 | 165 | 405 | 159 |
| 3047 | Yellow Beige-LT | 1373 | 540 | 1320 | 519 | 1271 | 500 |
| 3051 | Green Gray-DK | 143 | 56 | 138 | 54 | 133 | 52 |
| 3052 | Green Gray-MD | 248 | 97 | 238 | 93 | 229 | 90 |
| 3053 | Green Gray | 224 | 88 | 215 | 84 | 207 | 81 |
| 3072 | Beaver Gray-VY LT | 241 | 94 | 232 | 91 | 223 | 87 |
| 3078 | Golden Yellow-VY LT | 63 | 24 | 60 | 24 | 58 | 23 |
| 3346 | Hunter Green | 24 | 9 | 24 | 9 | 23 | 9 |
| 3348 | Yellow Green-LT | 197 | 77 | 189 | 74 | 182 | 71 |

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| | | | | | | | |
|------|-----------------------|-----|-----|-----|-----|-----|-----|
| 3362 | Pine Green-DK | 35 | 14 | 34 | 13 | 33 | 13 |
| 3363 | Pine Green-MD | 137 | 53 | 132 | 51 | 127 | 49 |
| 3364 | Pine Green | 22 | 9 | 21 | 8 | 21 | 8 |
| 3371 | Black Brown | 243 | 95 | 233 | 91 | 225 | 88 |
| 3752 | Antique Blue-VY LT | 5 | 1 | 5 | 1 | 5 | 1 |
| 3753 | Antique Blue-UL VY LT | 184 | 72 | 177 | 69 | 170 | 67 |
| 3756 | Baby Blue-UL VY LT | 249 | 98 | 240 | 94 | 231 | 91 |
| 3770 | Tawny-VY LT | 58 | 22 | 55 | 21 | 53 | 21 |
| 3781 | Mocha Brown-DK | 27 | 10 | 26 | 10 | 25 | 9 |
| 3782 | Mocha Brown-LT | 53 | 20 | 51 | 19 | 49 | 19 |
| 3787 | Brown Gray-DK | 55 | 22 | 53 | 21 | 51 | 20 |
| 3790 | Beige Gray-UL DK | 52 | 20 | 50 | 19 | 48 | 19 |
| 3799 | Pewter Gray-VY DK | 19 | 7 | 18 | 7 | 17 | 7 |
| 3814 | Aquamarine | 5 | 1 | 5 | 1 | 5 | 1 |
| 3815 | Celadon Green-DK | 10 | 4 | 10 | 3 | 9 | 3 |
| 3816 | Celadon Green-MD | 11 | 4 | 10 | 3 | 10 | 3 |
| 3823 | Yellow-UL Pale | 223 | 88 | 215 | 84 | 207 | 81 |
| 3828 | Hazelnut Brown | 120 | 47 | 115 | 45 | 111 | 43 |
| 3856 | Mahogany-UL VY LT | 14 | 5 | 13 | 5 | 13 | 5 |
| 3857 | Rosewood-DK | 14 | 5 | 14 | 5 | 13 | 5 |
| 3861 | Cocoa-LT | 12 | 4 | 11 | 4 | 11 | 4 |
| 3862 | Mocha Beige-DK | 158 | 62 | 152 | 60 | 147 | 57 |
| 3863 | Mocha Beige-MD | 59 | 23 | 57 | 22 | 55 | 21 |
| 3865 | Winter White | 347 | 136 | 334 | 131 | 321 | 126 |
| 3866 | Mocha Brown-UL VY LT | 434 | 171 | 417 | 164 | 402 | 158 |
| ecru | Ecru | 282 | 110 | 271 | 106 | 261 | 102 |

| Extended thread usage table. | | | | | | | |
|------------------------------|-----------------------|------------|--------------|------------|--------------|------------|--------------|
| DMC | Name | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) | Usage (cm) | Usage (inch) |
| | | 28 | | 30 | | 32 | |
| 1 | White 1 | 340 | 134 | 317 | 125 | 298 | 117 |
| 224 | Shell Pink-VY LT | 17 | 6 | 16 | 6 | 15 | 6 |
| 300 | Mahogany-VY DK | 534 | 210 | 498 | 196 | 467 | 183 |
| 310 | Black | 105 | 41 | 98 | 38 | 92 | 36 |
| 320 | Pistachio Green-MD | 5 | 1 | 4 | 1 | 4 | 1 |
| 353 | Peach | 9 | 3 | 8 | 3 | 8 | 3 |
| 356 | Terra Cotta-MD | 20 | 8 | 19 | 7 | 17 | 7 |
| 367 | Pistachio Green-DK | 19 | 7 | 18 | 7 | 17 | 6 |
| 369 | Pistachio Green-VY LT | 1432 | 563 | 1336 | 526 | 1253 | 493 |
| 370 | Mustard-MD | 8 | 3 | 8 | 3 | 7 | 3 |
| 371 | Mustard | 28 | 10 | 26 | 10 | 24 | 9 |
| 400 | Mahogany-DK | 20 | 8 | 19 | 7 | 17 | 7 |
| 407 | Desert Sand-DK | 48 | 19 | 45 | 17 | 42 | 16 |
| 413 | Pewter Gray-DK | 7 | 3 | 7 | 2 | 6 | 2 |
| 415 | Pearl Gray | 44 | 17 | 41 | 16 | 39 | 15 |
| 420 | Hazelnut Brown-DK | 171 | 67 | 160 | 62 | 150 | 59 |
| 433 | Brown-MD | 188 | 73 | 175 | 68 | 164 | 64 |
| 434 | Brown-LT | 91 | 35 | 85 | 33 | 79 | 31 |
| 435 | Brown-VY LT | 110 | 43 | 103 | 40 | 96 | 38 |
| 436 | Tan | 96 | 37 | 89 | 35 | 84 | 33 |
| 437 | Tan-LT | 61 | 24 | 57 | 22 | 53 | 21 |
| 452 | Shell Gray-MD | 32 | 12 | 29 | 11 | 28 | 11 |
| 500 | Blue Green-VY DK | 14 | 5 | 13 | 5 | 12 | 5 |
| 501 | Blue Green-DK | 15 | 6 | 14 | 5 | 13 | 5 |
| 502 | Blue Green | 72 | 28 | 67 | 26 | 63 | 25 |
| 503 | Blue Green-MD | 89 | 35 | 83 | 32 | 78 | 30 |

| | | | | | | | |
|------|----------------------|------|-----|------|-----|------|-----|
| 522 | Fern Green | 327 | 129 | 305 | 120 | 286 | 113 |
| 523 | Fern Green-LT | 335 | 132 | 313 | 123 | 293 | 115 |
| 524 | Fern Green-VY LT | 1337 | 526 | 1247 | 491 | 1169 | 460 |
| 543 | Beige Brown-UL VY LT | 304 | 120 | 284 | 112 | 266 | 105 |
| 564 | Jade-VY LT | 414 | 163 | 386 | 152 | 362 | 142 |
| 610 | Drab Brown-DK | 136 | 53 | 127 | 50 | 119 | 47 |
| 611 | Drab Brown | 174 | 68 | 162 | 64 | 152 | 60 |
| 612 | Drab Brown-LT | 24 | 9 | 22 | 8 | 21 | 8 |
| 613 | Drab Brown-VY LT | 1658 | 653 | 1547 | 609 | 1451 | 571 |
| 632 | Desert Sand-UL VY DK | 92 | 36 | 86 | 34 | 80 | 32 |
| 640 | Beige Gray-VY DK | 62 | 24 | 58 | 23 | 55 | 21 |
| 642 | Beige Gray-DK | 89 | 35 | 83 | 32 | 78 | 30 |
| 644 | Beige Gray-MD | 405 | 159 | 378 | 149 | 354 | 140 |
| 645 | Beaver Gray-VY DK | 125 | 49 | 117 | 46 | 110 | 43 |
| 646 | Beaver Gray-DK | 71 | 28 | 67 | 26 | 62 | 24 |
| 647 | Beaver Gray-MD | 145 | 57 | 135 | 53 | 127 | 50 |
| 648 | Beaver Gray-LT | 165 | 64 | 154 | 60 | 144 | 56 |
| 677 | Old Gold-VY LT | 752 | 296 | 701 | 276 | 658 | 259 |
| 712 | Cream | 879 | 346 | 821 | 323 | 770 | 303 |
| 730 | Olive Green-VY DK | 64 | 25 | 60 | 23 | 56 | 22 |
| 738 | Tan-VY LT | 437 | 172 | 408 | 160 | 383 | 150 |
| 739 | Tan-UL VY LT | 407 | 160 | 380 | 149 | 356 | 140 |
| 746 | Off White | 856 | 337 | 799 | 314 | 749 | 295 |
| 754 | Peach-LT | 11 | 4 | 10 | 4 | 10 | 3 |
| 762 | Pearl Gray-VY LT | 53 | 21 | 50 | 19 | 47 | 18 |
| 772 | Yellow Green-VY LT | 410 | 161 | 383 | 151 | 359 | 141 |
| 822 | Beige Gray-LT | 172 | 68 | 161 | 63 | 151 | 59 |
| 829 | Golden Olive-VY DK | 179 | 70 | 167 | 65 | 157 | 61 |
| 838 | Beige Brown-VY DK | 30 | 12 | 28 | 11 | 26 | 10 |
| 839 | Beige Brown-DK | 25 | 10 | 23 | 9 | 22 | 8 |
| 842 | Beige Brown-VY LT | 21 | 8 | 19 | 7 | 18 | 7 |
| 844 | Beaver Brown-UL DK | 35 | 14 | 33 | 13 | 31 | 12 |
| 869 | Hazelnut Brown-VY DK | 290 | 114 | 271 | 106 | 254 | 100 |
| 898 | Coffee Brown-VY DK | 224 | 88 | 209 | 82 | 196 | 77 |
| 909 | Emerald Green-VY DK | 2 | 1 | 2 | 1 | 2 | 1 |
| 913 | Nile Green-MD | 6 | 2 | 5 | 2 | 5 | 2 |
| 927 | Gray Green-LT | 72 | 28 | 67 | 26 | 63 | 25 |
| 928 | Gray Green-VY LT | 140 | 55 | 130 | 51 | 122 | 48 |
| 932 | Antique Blue-LT | 6 | 2 | 6 | 2 | 6 | 2 |
| 934 | Black Avocado Green | 18 | 7 | 17 | 7 | 16 | 6 |
| 935 | Avocado Green-DK | 69 | 27 | 65 | 25 | 61 | 24 |
| 938 | Coffee Brown-UL DK | 318 | 125 | 296 | 116 | 278 | 109 |
| 945 | Tawny | 6 | 2 | 6 | 2 | 6 | 2 |
| 950 | Desert Sand-LT | 14 | 5 | 13 | 5 | 12 | 5 |
| 951 | Tawny-LT | 60 | 24 | 56 | 22 | 53 | 21 |
| 955 | Nile Green-LT | 401 | 158 | 374 | 147 | 350 | 138 |
| 964 | Sea Green-LT | 6 | 2 | 6 | 2 | 6 | 2 |
| 975 | Golden Brown-DK | 176 | 69 | 164 | 64 | 154 | 60 |
| 977 | Golden Brown-LT | 5 | 1 | 4 | 1 | 4 | 1 |
| 986 | Forest Green-VY DK | 3 | 1 | 3 | 1 | 3 | 1 |
| 992 | Aquamarine-MD | 3 | 1 | 2 | 1 | 2 | 1 |
| 993 | Aquamarine-LT | 10 | 4 | 10 | 4 | 9 | 3 |
| 3011 | Khaki Green-DK | 167 | 66 | 156 | 61 | 146 | 57 |
| 3013 | Khaki Green-LT | 90 | 35 | 84 | 33 | 79 | 31 |
| 3021 | Brown Gray-VY DK | 32 | 12 | 30 | 11 | 28 | 11 |
| 3022 | Brown Gray-MD | 67 | 26 | 62 | 24 | 59 | 23 |
| 3023 | Brown Gray-LT | 10 | 4 | 10 | 4 | 9 | 3 |
| 3024 | Brown Gray-VY LT | 185 | 72 | 172 | 67 | 161 | 63 |
| 3032 | Mocha Brown-MD | 55 | 21 | 52 | 20 | 48 | 19 |

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| | | | | | | | |
|------|-----------------------|------|-----|------|-----|------|-----|
| 3046 | Yellow Beige-MD | 390 | 153 | 364 | 143 | 341 | 134 |
| 3047 | Yellow Beige-LT | 1226 | 482 | 1144 | 450 | 1073 | 422 |
| 3051 | Green Gray-DK | 128 | 50 | 119 | 47 | 112 | 44 |
| 3052 | Green Gray-MD | 221 | 87 | 206 | 81 | 194 | 76 |
| 3053 | Green Gray | 200 | 78 | 187 | 73 | 175 | 69 |
| 3072 | Beaver Gray-VY LT | 215 | 84 | 201 | 79 | 188 | 74 |
| 3078 | Golden Yellow-VY LT | 56 | 22 | 52 | 20 | 49 | 19 |
| 3346 | Hunter Green | 22 | 8 | 20 | 8 | 19 | 7 |
| 3348 | Yellow Green-LT | 176 | 69 | 164 | 64 | 154 | 60 |
| 3362 | Pine Green-DK | 32 | 12 | 29 | 11 | 28 | 11 |
| 3363 | Pine Green-MD | 122 | 48 | 114 | 44 | 107 | 42 |
| 3364 | Pine Green | 20 | 8 | 19 | 7 | 17 | 7 |
| 3371 | Black Brown | 217 | 85 | 202 | 79 | 190 | 74 |
| 3752 | Antique Blue-VY LT | 5 | 1 | 4 | 1 | 4 | 1 |
| 3753 | Antique Blue-UL VY LT | 164 | 64 | 153 | 60 | 143 | 56 |
| 3756 | Baby Blue-UL VY LT | 222 | 87 | 208 | 82 | 195 | 77 |
| 3770 | Tawny-VY LT | 51 | 20 | 48 | 19 | 45 | 17 |
| 3781 | Mocha Brown-DK | 24 | 9 | 23 | 8 | 21 | 8 |
| 3782 | Mocha Brown-LT | 47 | 18 | 44 | 17 | 41 | 16 |
| 3787 | Brown Gray-DK | 50 | 19 | 46 | 18 | 43 | 17 |
| 3790 | Beige Gray-UL DK | 46 | 18 | 43 | 17 | 41 | 16 |
| 3799 | Pewter Gray-VY DK | 17 | 6 | 16 | 6 | 15 | 6 |
| 3814 | Aquamarine | 5 | 1 | 4 | 1 | 4 | 1 |
| 3815 | Celadon Green-DK | 9 | 3 | 8 | 3 | 8 | 3 |
| 3816 | Celadon Green-MD | 10 | 3 | 9 | 3 | 8 | 3 |
| 3823 | Yellow-UL Pale | 199 | 78 | 186 | 73 | 174 | 69 |
| 3828 | Hazelnut Brown | 107 | 42 | 100 | 39 | 93 | 37 |
| 3856 | Mahogany-UL VY LT | 12 | 5 | 11 | 4 | 11 | 4 |
| 3857 | Rosewood-DK | 13 | 5 | 12 | 4 | 11 | 4 |
| 3861 | Cocoa-LT | 10 | 4 | 10 | 4 | 9 | 3 |
| 3862 | Mocha Beige-DK | 141 | 55 | 132 | 52 | 124 | 48 |
| 3863 | Mocha Beige-MD | 53 | 21 | 49 | 19 | 46 | 18 |
| 3865 | Winter White | 310 | 122 | 289 | 113 | 271 | 106 |
| 3866 | Mocha Brown-UL VY LT | 388 | 152 | 362 | 142 | 339 | 133 |
| ecru | Ecru | 251 | 98 | 235 | 92 | 220 | 86 |

[illegible]

(10)

[illegible]

[illegible]

[illegible]

(14)

(14)

[illegible]

[illegible]

[illegible]

| | 140 | 150 | 160 | 170 | 180 |
|-----|-----|-----|-----|-----|-----|
| 70 | | | | | |
| 80 | | | | | |
| 90 | | | | | |
| 100 | | | | | |
| 110 | | | | | |
| 120 | | | | | |
| 130 | | | | | |

$$(19) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

[illegible]

| | 280 | | | | | | | | | | | | 290 | | | | | | | | | | | | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-----|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

$$(22) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (23)$$

| | 50 | 60 | 70 | 80 | 90 |
|------|----|----|----|----|----|
| 130 | Q | Q | Q | Q | Q |
| 140 | Q | Q | Q | Q | Q |
| 150 | Q | Q | Q | Q | Q |
| 160 | Q | Q | Q | Q | Q |
| 170 | Q | Q | Q | Q | Q |
| 180 | Q | Q | Q | Q | Q |
| 190 | Q | Q | Q | Q | Q |
| 200 | Q | Q | Q | Q | Q |
| 210 | Q | Q | Q | Q | Q |
| 220 | Q | Q | Q | Q | Q |
| 230 | Q | Q | Q | Q | Q |
| 240 | Q | Q | Q | Q | Q |
| 250 | Q | Q | Q | Q | Q |
| 260 | Q | Q | Q | Q | Q |
| 270 | Q | Q | Q | Q | Q |
| 280 | Q | Q | Q | Q | Q |
| 290 | Q | Q | Q | Q | Q |
| 300 | Q | Q | Q | Q | Q |
| 310 | Q | Q | Q | Q | Q |
| 320 | Q | Q | Q | Q | Q |
| 330 | Q | Q | Q | Q | Q |
| 340 | Q | Q | Q | Q | Q |
| 350 | Q | Q | Q | Q | Q |
| 360 | Q | Q | Q | Q | Q |
| 370 | Q | Q | Q | Q | Q |
| 380 | Q | Q | Q | Q | Q |
| 390 | Q | Q | Q | Q | Q |
| 400 | Q | Q | Q | Q | Q |
| 410 | Q | Q | Q | Q | Q |
| 420 | Q | Q | Q | Q | Q |
| 430 | Q | Q | Q | Q | Q |
| 440 | Q | Q | Q | Q | Q |
| 450 | Q | Q | Q | Q | Q |
| 460 | Q | Q | Q | Q | Q |
| 470 | Q | Q | Q | Q | Q |
| 480 | Q | Q | Q | Q | Q |
| 490 | Q | Q | Q | Q | Q |
| 500 | Q | Q | Q | Q | Q |
| 510 | Q | Q | Q | Q | Q |
| 520 | Q | Q | Q | Q | Q |
| 530 | Q | Q | Q | Q | Q |
| 540 | Q | Q | Q | Q | Q |
| 550 | Q | Q | Q | Q | Q |
| 560 | Q | Q | Q | Q | Q |
| 570 | Q | Q | Q | Q | Q |
| 580 | Q | Q | Q | Q | Q |
| 590 | Q | Q | Q | Q | Q |
| 600 | Q | Q | Q | Q | Q |
| 610 | Q | Q | Q | Q | Q |
| 620 | Q | Q | Q | Q | Q |
| 630 | Q | Q | Q | Q | Q |
| 640 | Q | Q | Q | Q | Q |
| 650 | Q | Q | Q | Q | Q |
| 660 | Q | Q | Q | Q | Q |
| 670 | Q | Q | Q | Q | Q |
| 680 | Q | Q | Q | Q | Q |
| 690 | Q | Q | Q | Q | Q |
| 700 | Q | Q | Q | Q | Q |
| 710 | Q | Q | Q | Q | Q |
| 720 | Q | Q | Q | Q | Q |
| 730 | Q | Q | Q | Q | Q |
| 740 | Q | Q | Q | Q | Q |
| 750 | Q | Q | Q | Q | Q |
| 760 | Q | Q | Q | Q | Q |
| 770 | Q | Q | Q | Q | Q |
| 780 | Q | Q | Q | Q | Q |
| 790 | Q | Q | Q | Q | Q |
| 800 | Q | Q | Q | Q | Q |
| 810 | Q | Q | Q | Q | Q |
| 820 | Q | Q | Q | Q | Q |
| 830 | Q | Q | Q | Q | Q |
| 840 | Q | Q | Q | Q | Q |
| 850 | Q | Q | Q | Q | Q |
| 860 | Q | Q | Q | Q | Q |
| 870 | Q | Q | Q | Q | Q |
| 880 | Q | Q | Q | Q | Q |
| 890 | Q | Q | Q | Q | Q |
| 900 | Q | Q | Q | Q | Q |
| 910 | Q | Q | Q | Q | Q |
| 920 | Q | Q | Q | Q | Q |
| 930 | Q | Q | Q | Q | Q |
| 940 | Q | Q | Q | Q | Q |
| 950 | Q | Q | Q | Q | Q |
| 960 | Q | Q | Q | Q | Q |
| 970 | Q | Q | Q | Q | Q |
| 980 | Q | Q | Q | Q | Q |
| 990 | Q | Q | Q | Q | Q |
| 1000 | Q | Q | Q | Q | Q |

| | 100 | 110 | 120 | 130 | 140 |
|-----|-----|-----|-----|-----|-----|
| 130 | | | | | |
| 140 | | | | | |
| 150 | | | | | |
| 160 | | | | | |
| 170 | | | | | |
| 180 | | | | | |
| 190 | | | | | |

[illegible]

$$(26) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (27)$$

| | 130 | 240 | 250 | 260 | 270 |
|-----|-----|-----|-----|-----|-----|
| 130 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 140 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 150 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 160 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 170 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 180 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 190 | ✓ | ✓ | ✓ | ✓ | ✓ |

(28)

[illegible]

[illegible]

[illegible]

$$(32) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$$

[illegible]

[illegible]

[illegible]

| | 10 | | | | | | | | | | 20 | | | | | | | | | | 30 | | | | | | | | | | 40 | | | | | | | | | |
|-----|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|--|
| 260 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 270 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 280 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 290 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 300 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 310 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 320 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |

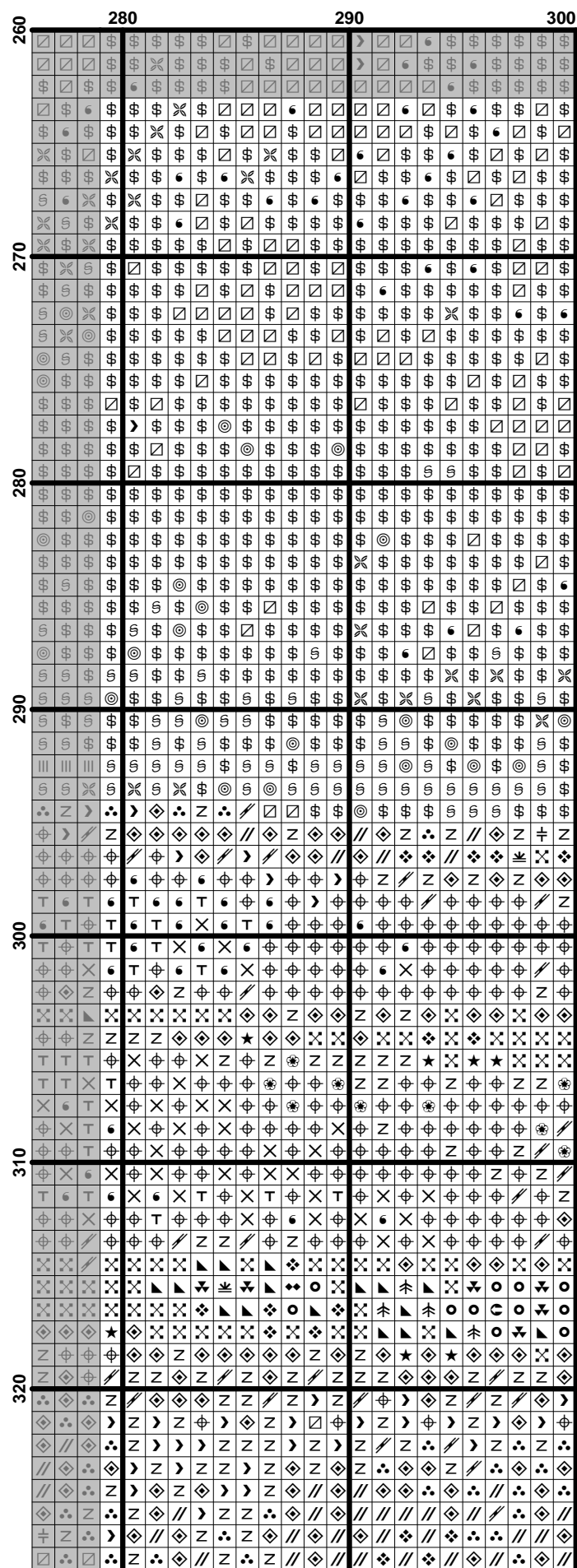
[illegible]

[illegible]

$$(39) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \mathcal{I}_\alpha f(t), \quad t \in J, \quad (40)$$

[illegible]

| 260 | 230 | 240 | 250 | 260 | 270 |
|-----|-----|-----|-----|-----|-----|
| 260 | 230 | 240 | 250 | 260 | 270 |
| 270 | 270 | 270 | 270 | 270 | 270 |
| 280 | 280 | 280 | 280 | 280 | 280 |
| 290 | 290 | 290 | 290 | 290 | 290 |
| 300 | 300 | 300 | 300 | 300 | 300 |
| 310 | 310 | 310 | 310 | 310 | 310 |
| 320 | 320 | 320 | 320 | 320 | 320 |



[illegible]

[illegible]

[illegible]

| | 140 | 150 | 160 | 170 | 180 |
|-----|-----|-----|-----|-----|-----|
| 330 | ♣ | ♣ | ♣ | ♣ | ♣ |
| 340 | ♣ | ♣ | ♣ | ♣ | ♣ |
| 350 | ♣ | ♣ | ♣ | ♣ | ♣ |
| 360 | ♣ | ♣ | ♣ | ♣ | ♣ |
| 370 | ♣ | ♣ | ♣ | ♣ | ♣ |
| 380 | ♣ | ♣ | ♣ | ♣ | ♣ |
| 390 | ♣ | ♣ | ♣ | ♣ | ♣ |

| | 190 | 200 | 210 | 220 | 230 |
|-----|-----|-----|-----|-----|-----|
| 330 | | | | | |
| 340 | | | | | |
| 350 | | | | | |
| 360 | | | | | |
| 370 | | | | | |
| 380 | | | | | |
| 390 | | | | | |

[illegible]

(49)

[illegible]

[illegible]

