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254 Expectations



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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.

It is easiest to start in the center of the design. 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 thread 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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Expectations

Stitch Count	
Horizontal:	413
Vertical:	196

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:	75	29.41	36	13.98	66	25.73	32	12.23	59	22.875	28	10.875
Including Margins:	91	36	52	20	82	32	48	19	75	29	44	17
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	105	41.17	50	19.57	87	34.31	42	16.31	43	17.15	21	8.15
Including Margins:	121	48	66	26	103	41	58	23	59	24	37	15
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	42	16.46	20	7.82	40	15.83	19	7.52	38	15.24	18	7.24
Including Margins:	58	23	36	14	56	22	35	14	54	22	34	14
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	37	14.7	18	6.99	35	13.72	16	6.52	32	12.86	15	6.11
Including Margins:	53	21	34	13	51	20	32	13	48	19	31	13

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
❖	316	Antique Mauve-MD
♣	317	Pewter Gray
⌘	318	Steel Gray-LT
z	341	Blue Violet-LT
τ	369	Pistachio Green-VY LT
■	370	Mustard-MD
✚	371	Mustard
⬆	372	Mustard-LT
▲	414	Steel Gray-DK
⬇	420	Hazelnut Brown-DK
♥	433	Brown-MD
⬆	434	Brown-LT
*	436	Tan
✚	451	Shell Gray-DK
	452	Shell Gray-MD
✚	470	Avocado Green-LT
✘	501	Blue Green-DK
≡	522	Fern Green
≡	523	Fern Green-LT
2	543	Beige Brown-UL VY LT
↘	612	Drab Brown-LT
m	613	Drab Brown-VY LT
✚	632	Desert Sand-UL VY DK
4	644	Beige Gray-MD
✘	645	Beaver Gray-VY DK
^	712	Cream
↘	729	Old Gold-MD
5	738	Tan-VY LT
5	739	Tan-UL VY LT
ρ	762	Pearl Gray-VY LT
⊗	793	Cornflower Blue-MD
⊗	809	Delft Blue
⬆	813	Blue-LT
L	819	Baby Pink-LT

∇	822	Beige Gray-LT
↓	839	Beige Brown-DK
↘	926	Gray Green-MD
◇	928	Gray Green-VY LT
▧	930	Antique Blue-DK
⊗	931	Antique Blue-MD
⊗	938	Coffee Brown-UL DK
=	948	Peach-VY LT
	966	Baby Green-MD
∕	3013	Khaki Green-LT
⊗	3021	Brown Gray-VY DK
↑	3024	Brown Gray-VY LT
⊗	3032	Mocha Brown-MD
√	3047	Yellow Beige-LT
⊗	3052	Green Gray-MD
3	3072	Beaver Gray-VY LT
*	3364	Pine Green
■	3371	Black Brown
8	3713	Salmon-VY LT
⊗	3726	Antique Mauve-DK
★	3733	Dusty Rose
▶	3740	Antique Violet-DK
≡	3747	Blue Violet-VY LT
●	3750	Antique Blue-VY DK
○	3753	Antique Blue-UL VY LT
⇄	3755	Baby Blue
◆	3768	Gray Green-DK
)	3770	Tawny-VY LT
⊗	3782	Mocha Brown-LT
↓	3790	Beige Gray-UL DK
••	3828	Hazelnut Brown
⊗	3836	Grape-LT
⊗	3839	Lavender Blue-MD
••	3855	Autumn Gold-LT
➔	3860	Cocoa
⊗	3861	Cocoa-LT
+	3866	Mocha Brown-UL VY LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.

Symbol	DMC1	Name1	DMC2	Name2
↗	3032	Mocha Brown-MD	640	Beige Gray-VY DK
•	819	Baby Pink-LT	3865	Winter White
▼	370	Mustard-MD	3862	Mocha Beige-DK
‡	3072	Beaver Gray-VY LT	948	Peach-VY LT
←	3862	Mocha Beige-DK	632	Desert Sand-UL VY DK
›	613	Drab Brown-VY LT	369	Pistachio Green-VY LT
⊖	3864	Mocha Beige-LT	738	Tan-VY LT
⊕	435	Brown-VY LT	436	Tan
⊗	434	Brown-LT	420	Hazelnut Brown-DK
☼	831	Golden Olive-MD	840	Beige Brown-MD
♠	931	Antique Blue-MD	932	Antique Blue-LT
●	898	Coffee Brown-VY DK	3857	Rosewood-DK
L	437	Tan-LT	3045	Yellow Beige-DK
⊗	932	Antique Blue-LT	793	Cornflower Blue-MD
∩	928	Gray Green-VY LT	415	Pearl Gray
⌘	415	Pearl Gray	318	Steel Gray-LT
⊗	932	Antique Blue-LT	414	Steel Gray-DK
⊕	3839	Lavender Blue-MD	809	Delft Blue
⊗	3747	Blue Violet-VY LT	341	Blue Violet-LT
*	518	Wedgewood-LT	793	Cornflower Blue-MD
⊗	645	Beaver Gray-VY DK	414	Steel Gray-DK
⌘	645	Beaver Gray-VY DK	3021	Brown Gray-VY DK
⊕	778	Antique Mauve-VY LT	316	Antique Mauve-MD
⊗	316	Antique Mauve-MD	3726	Antique Mauve-DK
//	543	Beige Brown-UL VY LT	3861	Cocoa-LT
∞	3713	Salmon-VY LT	3866	Mocha Brown-UL VY LT
×	3024	Brown Gray-VY LT	778	Antique Mauve-VY LT
•	613	Drab Brown-VY LT	543	Beige Brown-UL VY LT
\$	452	Shell Gray-MD	3861	Cocoa-LT
∇	738	Tan-VY LT	3782	Mocha Brown-LT
0	369	Pistachio Green-VY LT	3024	Brown Gray-VY LT
9	613	Drab Brown-VY LT	3855	Autumn Gold-LT
⊗	938	Coffee Brown-UL DK	434	Brown-LT
⇒	613	Drab Brown-VY LT	738	Tan-VY LT
⊖	3790	Beige Gray-UL DK	3032	Mocha Brown-MD
⊕	3364	Pine Green	3052	Green Gray-MD
✱	371	Mustard	730	Olive Green-VY DK
/	3364	Pine Green	3013	Khaki Green-LT
⊕	3364	Pine Green	3032	Mocha Brown-MD
‡	3782	Mocha Brown-LT	644	Beige Gray-MD
⌘	839	Beige Brown-DK	3790	Beige Gray-UL DK
↓	3756	Baby Blue-UL VY LT	819	Baby Pink-LT
⊗	3750	Antique Blue-VY DK	930	Antique Blue-DK
■	3371	Black Brown	3750	Antique Blue-VY DK
⊕	434	Brown-LT	435	Brown-VY LT

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	
316	Antique Mauve-MD	63	24	60	23	54	21
317	Pewter Gray	155	61	147	57	133	52
318	Steel Gray-LT	1013	398	965	379	869	342
341	Blue Violet-LT	945	372	900	354	810	318
369	Pistachio Green-VY LT	106	41	101	39	90	35
370	Mustard-MD	43	16	41	16	37	14
371	Mustard	95	37	90	35	81	31
372	Mustard-LT	97	38	93	36	83	32
414	Steel Gray-DK	221	87	211	83	190	74
415	Pearl Gray	540	212	514	202	462	181
420	Hazelnut Brown-DK	5	1	4	1	4	1
433	Brown-MD	16	6	15	5	14	5
434	Brown-LT	20	7	19	7	17	6
435	Brown-VY LT	5	1	5	1	4	1
436	Tan	15	5	14	5	13	5
437	Tan-LT	11	4	10	3	9	3
451	Shell Gray-DK	113	44	107	42	97	38
452	Shell Gray-MD	238	93	226	88	204	80
470	Avocado Green-LT	15	5	14	5	13	5
501	Blue Green-DK	24	9	23	9	21	8
518	Wedgewood-LT	46	18	44	17	39	15
522	Fern Green	62	24	59	23	53	20
523	Fern Green-LT	295	116	281	110	253	99
543	Beige Brown-UL VY LT	1588	625	1513	595	1361	535
612	Drab Brown-LT	80	31	76	29	69	27
613	Drab Brown-VY LT	1724	678	1642	646	1478	581
632	Desert Sand-UL VY DK	13	5	12	4	11	4
640	Beige Gray-VY DK	34	13	33	12	29	11
644	Beige Gray-MD	946	372	901	354	811	319
645	Beaver Gray-VY DK	214	84	204	80	183	72
712	Cream	160	62	152	59	137	53
729	Old Gold-MD	7	2	6	2	6	2
730	Olive Green-VY DK	33	12	32	12	29	11
738	Tan-VY LT	503	198	479	188	431	169
739	Tan-UL VY LT	508	200	483	190	435	171
762	Pearl Gray-VY LT	247	97	235	92	212	83
778	Antique Mauve-VY LT	255	100	243	95	219	86
793	Cornflower Blue-MD	196	77	186	73	168	66
809	Delft Blue	222	87	212	83	191	75
813	Blue-LT	652	256	621	244	559	220
819	Baby Pink-LT	994	391	947	372	852	335
822	Beige Gray-LT	532	209	507	199	456	179
831	Golden Olive-MD	5	1	4	1	4	1
839	Beige Brown-DK	74	29	70	27	63	24
840	Beige Brown-MD	5	1	4	1	4	1
898	Coffee Brown-VY DK	5	1	5	1	5	1
926	Gray Green-MD	138	54	131	51	118	46
928	Gray Green-VY LT	342	134	326	128	293	115
930	Antique Blue-DK	164	64	156	61	141	55
931	Antique Blue-MD	142	55	135	53	121	47
932	Antique Blue-LT	259	101	247	97	222	87
938	Coffee Brown-UL DK	79	31	75	29	68	26
948	Peach-VY LT	557	219	531	209	478	188

966	Baby Green-MD	15	5	15	5	13	5
3013	Khaki Green-LT	412	162	392	154	353	138
3021	Brown Gray-VY DK	119	46	113	44	102	40
3024	Brown Gray-VY LT	1115	438	1062	418	955	375
3032	Mocha Brown-MD	238	93	227	89	204	80
3045	Yellow Beige-DK	11	4	10	3	9	3
3047	Yellow Beige-LT	174	68	166	65	149	58
3052	Green Gray-MD	115	45	110	43	99	38
3072	Beaver Gray-VY LT	1019	401	970	381	873	343
3364	Pine Green	252	99	240	94	216	85
3371	Black Brown	116	45	110	43	99	38
3713	Salmon-VY LT	192	75	183	72	164	64
3726	Antique Mauve-DK	34	13	33	12	29	11
3733	Dusty Rose	1	1	1	1	0	1
3740	Antique Violet-DK	27	10	26	10	23	9
3747	Blue Violet-VY LT	428	168	408	160	367	144
3750	Antique Blue-VY DK	115	45	110	43	99	38
3753	Antique Blue-UL VY LT	105	41	100	39	90	35
3755	Baby Blue	322	126	307	120	276	108
3756	Baby Blue-UL VY LT	186	73	177	69	159	62
3768	Gray Green-DK	172	67	164	64	147	57
3770	Tawny-VY LT	220	86	210	82	189	74
3782	Mocha Brown-LT	647	254	616	242	555	218
3790	Beige Gray-UL DK	130	51	123	48	111	43
3828	Hazelnut Brown	16	6	15	5	13	5
3836	Grape-LT	16	6	15	5	14	5
3839	Lavender Blue-MD	171	67	163	64	146	57
3855	Autumn Gold-LT	100	39	95	37	85	33
3857	Rosewood-DK	5	1	5	1	5	1
3860	Cocoa	30	11	29	11	26	10
3861	Cocoa-LT	351	138	334	131	300	118
3862	Mocha Beige-DK	30	11	29	11	26	10
3864	Mocha Beige-LT	21	8	20	7	18	7
3865	Winter White	401	157	382	150	343	135
3866	Mocha Brown-UL VY LT	677	266	644	253	580	228

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
316	Antique Mauve-MD	97	38	81	32	41	16
317	Pewter Gray	239	94	200	78	100	39
318	Steel Gray-LT	1564	616	1304	513	652	257
341	Blue Violet-LT	1458	572	1215	477	608	239
369	Pistachio Green-VY LT	162	63	135	53	68	26
370	Mustard-MD	67	25	56	21	28	11
371	Mustard	146	56	122	47	61	23
372	Mustard-LT	149	58	125	48	62	24
414	Steel Gray-DK	342	133	285	111	143	56
415	Pearl Gray	832	326	693	272	347	136
420	Hazelnut Brown-DK	7	2	6	2	3	1
433	Brown-MD	25	9	21	8	11	4
434	Brown-LT	31	11	26	9	13	5
435	Brown-VY LT	7	2	6	2	3	1
436	Tan	23	9	20	8	10	4
437	Tan-LT	16	5	14	5	7	2
451	Shell Gray-DK	175	68	146	57	73	29
452	Shell Gray-MD	367	144	306	120	153	60

470	Avocado Green-LT	23	9	20	8	10	4
501	Blue Green-DK	38	14	32	12	16	6
518	Wedgewood-LT	70	27	59	23	29	11
522	Fern Green	95	36	80	30	40	15
523	Fern Green-LT	455	178	380	149	190	74
543	Beige Brown-UL VY LT	2450	963	2042	803	1021	401
612	Drab Brown-LT	124	49	104	41	52	20
613	Drab Brown-VY LT	2660	1046	2217	872	1109	436
632	Desert Sand-UL VY DK	20	7	17	6	8	3
640	Beige Gray-VY DK	52	20	44	17	22	8
644	Beige Gray-MD	1460	574	1217	479	608	239
645	Beaver Gray-VY DK	329	130	275	108	137	54
712	Cream	247	95	206	80	103	40
729	Old Gold-MD	11	4	9	3	5	2
730	Olive Green-VY DK	52	20	44	17	22	8
738	Tan-VY LT	776	304	647	254	323	127
739	Tan-UL VY LT	783	308	653	257	326	128
762	Pearl Gray-VY LT	382	149	318	125	159	62
778	Antique Mauve-VY LT	394	155	329	129	164	65
793	Cornflower Blue-MD	302	119	252	99	126	50
809	Delft Blue	344	135	287	113	143	56
813	Blue-LT	1006	396	839	330	419	165
819	Baby Pink-LT	1534	603	1278	503	639	251
822	Beige Gray-LT	821	322	684	269	342	134
831	Golden Olive-MD	7	2	6	2	3	1
839	Beige Brown-DK	113	43	95	36	47	18
840	Beige Brown-MD	7	2	6	2	3	1
898	Coffee Brown-VY DK	9	2	8	2	4	1
926	Gray Green-MD	212	83	177	69	89	35
928	Gray Green-VY LT	527	207	440	173	220	86
930	Antique Blue-DK	254	99	212	83	106	41
931	Antique Blue-MD	218	85	182	71	91	35
932	Antique Blue-LT	400	157	333	131	167	65
938	Coffee Brown-UL DK	122	47	102	39	51	20
948	Peach-VY LT	860	338	717	282	359	141
966	Baby Green-MD	23	9	20	8	10	4
3013	Khaki Green-LT	635	248	530	207	265	104
3021	Brown Gray-VY DK	184	72	153	60	77	30
3024	Brown Gray-VY LT	1719	675	1433	563	716	281
3032	Mocha Brown-MD	367	144	306	120	153	60
3045	Yellow Beige-DK	16	5	14	5	7	2
3047	Yellow Beige-LT	268	104	224	87	112	44
3052	Green Gray-MD	178	68	149	57	74	29
3072	Beaver Gray-VY LT	1571	617	1310	515	655	257
3364	Pine Green	389	153	324	128	162	64
3371	Black Brown	178	68	149	57	74	29
3713	Salmon-VY LT	295	115	246	96	123	48
3726	Antique Mauve-DK	52	20	44	17	22	8
3733	Dusty Rose	0	2	0	2	0	1
3740	Antique Violet-DK	41	16	35	14	17	7
3747	Blue Violet-VY LT	661	259	551	216	275	108
3750	Antique Blue-VY DK	178	68	149	57	74	29
3753	Antique Blue-UL VY LT	162	63	135	53	68	26
3755	Baby Blue	497	194	414	162	207	81
3756	Baby Blue-UL VY LT	286	112	239	93	119	47
3768	Gray Green-DK	265	103	221	86	110	43
3770	Tawny-VY LT	340	133	284	111	142	56
3782	Mocha Brown-LT	999	392	833	327	416	164
3790	Beige Gray-UL DK	200	77	167	65	83	32

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3828	Hazelnut Brown	23	9	20	8	10	4
3836	Grape-LT	25	9	21	8	11	4
3839	Lavender Blue-MD	263	103	219	86	110	43
3855	Autumn Gold-LT	153	59	128	50	64	25
3857	Rosewood-DK	9	2	8	2	4	1
3860	Cocoa	47	18	39	15	20	8
3861	Cocoa-LT	540	212	450	177	225	89
3862	Mocha Beige-DK	47	18	39	15	20	8
3864	Mocha Beige-LT	32	13	27	11	14	5
3865	Winter White	617	243	515	203	257	101
3866	Mocha Brown-UL VY LT	1044	410	870	342	435	171

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
316	Antique Mauve-MD	39	15	37	15	36	14
317	Pewter Gray	96	37	92	36	89	35
318	Steel Gray-LT	626	246	602	237	579	228
341	Blue Violet-LT	583	229	561	220	540	212
369	Pistachio Green-VY LT	65	25	62	24	60	23
370	Mustard-MD	27	10	26	10	25	9
371	Mustard	58	22	56	21	54	21
372	Mustard-LT	60	23	57	22	55	21
414	Steel Gray-DK	137	53	132	51	127	49
415	Pearl Gray	333	130	320	125	308	121
420	Hazelnut Brown-DK	3	1	3	1	3	1
433	Brown-MD	10	4	10	3	9	3
434	Brown-LT	12	4	12	4	11	4
435	Brown-VY LT	3	1	3	1	3	1
436	Tan	9	4	9	3	9	3
437	Tan-LT	6	2	6	2	6	2
451	Shell Gray-DK	70	27	67	26	65	25
452	Shell Gray-MD	147	58	141	55	136	53
470	Avocado Green-LT	9	4	9	3	9	3
501	Blue Green-DK	15	6	15	6	14	5
518	Wedgewood-LT	28	11	27	10	26	10
522	Fern Green	38	14	37	14	35	13
523	Fern Green-LT	182	71	175	69	169	66
543	Beige Brown-UL VY LT	980	385	942	370	907	357
612	Drab Brown-LT	50	19	48	19	46	18
613	Drab Brown-VY LT	1064	418	1023	402	985	387
632	Desert Sand-UL VY DK	8	3	8	3	7	3
640	Beige Gray-VY DK	21	8	20	8	19	7
644	Beige Gray-MD	584	230	561	221	541	213
645	Beaver Gray-VY DK	132	52	127	50	122	48
712	Cream	99	38	95	37	91	35
729	Old Gold-MD	4	1	4	1	4	1
730	Olive Green-VY DK	21	8	20	8	19	7
738	Tan-VY LT	310	122	298	117	287	113
739	Tan-UL VY LT	313	123	301	118	290	114
762	Pearl Gray-VY LT	153	60	147	57	141	55
778	Antique Mauve-VY LT	158	62	152	60	146	57
793	Cornflower Blue-MD	121	48	116	46	112	44
809	Delft Blue	138	54	132	52	127	50
813	Blue-LT	402	158	387	152	373	147
819	Baby Pink-LT	613	241	590	232	568	223
822	Beige Gray-LT	328	129	316	124	304	119

831	Golden Olive-MD	3	1	3	1	3	1
839	Beige Brown-DK	45	17	44	17	42	16
840	Beige Brown-MD	3	1	3	1	3	1
898	Coffee Brown-VY DK	4	1	3	1	3	1
926	Gray Green-MD	85	33	82	32	79	31
928	Gray Green-VY LT	211	83	203	80	195	77
930	Antique Blue-DK	102	40	98	38	94	37
931	Antique Blue-MD	87	34	84	33	81	31
932	Antique Blue-LT	160	63	154	60	148	58
938	Coffee Brown-UL DK	49	19	47	18	45	17
948	Peach-VY LT	344	135	331	130	319	125
966	Baby Green-MD	9	4	9	3	9	3
3013	Khaki Green-LT	254	99	244	96	235	92
3021	Brown Gray-VY DK	73	29	71	28	68	27
3024	Brown Gray-VY LT	688	270	661	260	637	250
3032	Mocha Brown-MD	147	58	141	55	136	53
3045	Yellow Beige-DK	6	2	6	2	6	2
3047	Yellow Beige-LT	107	42	103	40	99	39
3052	Green Gray-MD	71	27	69	26	66	25
3072	Beaver Gray-VY LT	629	247	604	237	582	229
3364	Pine Green	156	61	150	59	144	57
3371	Black Brown	71	27	69	26	66	25
3713	Salmon-VY LT	118	46	114	44	109	43
3726	Antique Mauve-DK	21	8	20	8	19	7
3733	Dusty Rose	0	1	0	1	0	1
3740	Antique Violet-DK	17	6	16	6	15	6
3747	Blue Violet-VY LT	264	104	254	100	245	96
3750	Antique Blue-VY DK	71	27	69	26	66	25
3753	Antique Blue-UL VY LT	65	25	62	24	60	23
3755	Baby Blue	199	78	191	75	184	72
3756	Baby Blue-UL VY LT	114	45	110	43	106	41
3768	Gray Green-DK	106	41	102	39	98	38
3770	Tawny-VY LT	136	53	131	51	126	49
3782	Mocha Brown-LT	400	157	384	151	370	145
3790	Beige Gray-UL DK	80	31	77	30	74	29
3828	Hazelnut Brown	9	4	9	3	9	3
3836	Grape-LT	10	4	10	3	9	3
3839	Lavender Blue-MD	105	41	101	39	97	38
3855	Autumn Gold-LT	61	24	59	23	57	22
3857	Rosewood-DK	4	1	3	1	3	1
3860	Cocoa	19	7	18	7	17	7
3861	Cocoa-LT	216	85	208	82	200	79
3862	Mocha Beige-DK	19	7	18	7	17	7
3864	Mocha Beige-LT	13	5	12	5	12	5
3865	Winter White	247	97	237	93	229	90
3866	Mocha Brown-UL VY LT	418	164	402	158	387	152

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
316	Antique Mauve-MD	35	14	32	13	30	12
317	Pewter Gray	86	33	80	31	75	29
318	Steel Gray-LT	559	220	521	205	489	192
341	Blue Violet-LT	521	204	486	191	456	179
369	Pistachio Green-VY LT	58	23	54	21	51	20
370	Mustard-MD	24	9	22	8	21	8
371	Mustard	52	20	49	19	46	17

372	Mustard-LT	53	21	50	19	47	18
414	Steel Gray-DK	122	48	114	44	107	42
415	Pearl Gray	297	116	277	109	260	102
420	Hazelnut Brown-DK	3	1	2	1	2	1
433	Brown-MD	9	3	8	3	8	3
434	Brown-LT	11	4	10	4	10	3
435	Brown-VY LT	3	1	2	1	2	1
436	Tan	8	3	8	3	7	3
437	Tan-LT	6	2	5	2	5	2
451	Shell Gray-DK	62	24	58	23	55	21
452	Shell Gray-MD	131	51	122	48	115	45
470	Avocado Green-LT	8	3	8	3	7	3
501	Blue Green-DK	14	5	13	5	12	5
518	Wedgewood-LT	25	10	23	9	22	8
522	Fern Green	34	13	32	12	30	11
523	Fern Green-LT	163	64	152	59	142	56
543	Beige Brown-UL VY LT	875	344	817	321	766	301
612	Drab Brown-LT	44	17	41	16	39	15
613	Drab Brown-VY LT	950	374	887	349	831	327
632	Desert Sand-UL VY DK	7	3	7	2	6	2
640	Beige Gray-VY DK	19	7	17	7	16	6
644	Beige Gray-MD	521	205	487	191	456	179
645	Beaver Gray-VY DK	118	46	110	43	103	41
712	Cream	88	34	82	32	77	30
729	Old Gold-MD	4	1	4	1	3	1
730	Olive Green-VY DK	19	7	17	7	16	6
738	Tan-VY LT	277	109	259	101	242	95
739	Tan-UL VY LT	280	110	261	103	245	96
762	Pearl Gray-VY LT	136	53	127	50	119	47
778	Antique Mauve-VY LT	141	55	131	52	123	48
793	Cornflower Blue-MD	108	42	101	40	95	37
809	Delft Blue	123	48	115	45	107	42
813	Blue-LT	359	141	335	132	314	124
819	Baby Pink-LT	548	215	511	201	479	188
822	Beige Gray-LT	293	115	274	107	257	101
831	Golden Olive-MD	3	1	2	1	2	1
839	Beige Brown-DK	41	15	38	14	35	14
840	Beige Brown-MD	3	1	2	1	2	1
898	Coffee Brown-VY DK	3	1	3	1	3	1
926	Gray Green-MD	76	30	71	28	66	26
928	Gray Green-VY LT	188	74	176	69	165	65
930	Antique Blue-DK	91	35	85	33	79	31
931	Antique Blue-MD	78	30	73	28	68	26
932	Antique Blue-LT	143	56	133	52	125	49
938	Coffee Brown-UL DK	44	17	41	16	38	15
948	Peach-VY LT	307	121	287	113	269	106
966	Baby Green-MD	8	3	8	3	7	3
3013	Khaki Green-LT	227	89	212	83	199	78
3021	Brown Gray-VY DK	66	26	61	24	57	23
3024	Brown Gray-VY LT	614	241	573	225	537	211
3032	Mocha Brown-MD	131	51	122	48	115	45
3045	Yellow Beige-DK	6	2	5	2	5	2
3047	Yellow Beige-LT	96	37	89	35	84	33
3052	Green Gray-MD	64	24	59	23	56	21
3072	Beaver Gray-VY LT	561	221	524	206	491	193
3364	Pine Green	139	55	130	51	122	48
3371	Black Brown	64	24	59	23	56	21
3713	Salmon-VY LT	105	41	98	38	92	36
3726	Antique Mauve-DK	19	7	17	7	16	6

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3733	Dusty Rose	0	1	0	1	0	1
3740	Antique Violet-DK	15	6	14	5	13	5
3747	Blue Violet-VY LT	236	93	220	86	206	81
3750	Antique Blue-VY DK	64	24	59	23	56	21
3753	Antique Blue-UL VY LT	58	23	54	21	51	20
3755	Baby Blue	177	69	166	65	155	61
3756	Baby Blue-UL VY LT	102	40	95	37	89	35
3768	Gray Green-DK	95	37	88	34	83	32
3770	Tawny-VY LT	122	48	113	44	106	42
3782	Mocha Brown-LT	357	140	333	131	312	123
3790	Beige Gray-UL DK	71	28	67	26	62	24
3828	Hazelnut Brown	8	3	8	3	7	3
3836	Grape-LT	9	3	8	3	8	3
3839	Lavender Blue-MD	94	37	88	34	82	32
3855	Autumn Gold-LT	55	21	51	20	48	19
3857	Rosewood-DK	3	1	3	1	3	1
3860	Cocoa	17	6	16	6	15	6
3861	Cocoa-LT	193	76	180	71	169	66
3862	Mocha Beige-DK	17	6	16	6	15	6
3864	Mocha Beige-LT	12	5	11	4	10	4
3865	Winter White	221	87	206	81	193	76
3866	Mocha Brown-UL VY LT	373	147	348	137	326	128

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$$(13) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds$$

$$(14) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(15) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

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