

1087 Signing Register



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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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Signing Register

Stitch Count	
Horizontal:	340
Vertical:	247

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:	62	24.26	45	17.51	54	21.23	39	15.32	48	18.875	35	13.625
Including Margins:	78	31	61	24	70	28	55	22	64	25	51	20
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	86	33.96	63	24.51	72	28.3	52	20.42	36	14.15	26	10.21
Including Margins:	102	40	79	31	88	35	68	27	52	21	42	17
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	34	13.58	25	9.8	33	13.06	24	9.42	32	12.57	23	9.07
Including Margins:	50	20	41	16	49	20	40	16	48	19	39	16
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	31	12.13	22	8.75	28	11.32	21	8.17	27	10.61	19	7.66
Including Margins:	47	19	38	15	44	18	37	15	43	17	35	14

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
♣	221	Shell Pink-VY DK
♠	223	Shell Pink-LT
7	224	Shell Pink-VY LT
✶	304	Christmas Red-MD
✚	326	Rose-VY DK
▣	355	Terra Cotta-DK
◀	356	Terra Cotta-MD
#	407	Desert Sand-DK
☪	414	Steel Gray-DK
≡	415	Pearl Gray
m	422	Hazelnut Brown-LT
▲	434	Brown-LT
♠	437	Tan-LT
⇒	452	Shell Gray-MD
e	453	Shell Gray-LT
●	500	Blue Green-VY DK
♠	535	Ash Gray-VY LT
:	543	Beige Brown-UL VY LT
◇	613	Drab Brown-VY LT
✚	632	Desert Sand-UL VY DK
∅	640	Beige Gray-VY DK
3	644	Beige Gray-MD
✚	645	Beaver Gray-VY DK
♠	646	Beaver Gray-DK
♠	647	Beaver Gray-MD
☆	648	Beaver Gray-LT
♠	712	Cream
▣	738	Tan-VY LT
♡	739	Tan-UL VY LT
«	746	Off White
+	754	Peach-LT
n	819	Baby Pink-LT
•	822	Beige Gray-LT
••	840	Beige Brown-MD
≡	841	Beige Brown-LT
▣	842	Beige Brown-VY LT
▣	844	Beaver Brown-UL DK
=	920	Copper-MD
♣	924	Gray Green--VY DK

♣	926	Gray Green-MD
✓	927	Gray Green-LT
••	928	Gray Green-VY LT
✚	931	Antique Blue-MD
✚	932	Antique Blue-LT
♠	934	Black Avocado Green
♠	945	Tawny
9	950	Desert Sand-LT
	951	Tawny-LT
φ	975	Golden Brown-DK
➔	3021	Brown Gray-VY DK
↑	3023	Brown Gray-LT
4	3024	Brown Gray-VY LT
♠	3031	Mocha Brown-VY DK
+	3032	Mocha Brown-MD
L	3041	Antique Violet-MD
×	3045	Yellow Beige-DK
III	3064	Desert Sand
)	3072	Beaver Gray-VY LT
■	3371	Black Brown
♠	3721	Shell Pink-DK
∅	3753	Antique Blue-UL VY LT
■	3768	Gray Green-DK
~	3770	Tawny-VY LT
☪	3772	Desert Sand-VY DK
∅	3774	Desert Sand-VY LT
♠	3778	Terra Cotta-LT
☪	3781	Mocha Brown-DK
H	3782	Mocha Brown-LT
✶	3787	Brown Gray-DK
☪	3790	Beige Gray-UL DK
∞	3823	Yellow-UL Pale
✶	3828	Hazelnut Brown
★	3830	Terra Cotta-MD
/	3856	Mahogany-UL VY LT
✚	3859	Rosewood-LT
♠	3861	Cocoa-LT
✶	3863	Mocha Beige-MD
✶	3864	Mocha Beige-LT
1	3865	Winter White
^	3866	Mocha Brown-UL VY LT
↓	Ecru	Ecru

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

Symbol	DMC1	Name1	DMC2	Name2
⌘	3772	Desert Sand-VY DK	3828	Hazelnut Brown
//	840	Beige Brown-MD	3860	Cocoa
⌘	839	Beige Brown-DK	3787	Brown Gray-DK
○	839	Beige Brown-DK	3790	Beige Gray-UL DK
::	738	Tan-VY LT	3864	Mocha Beige-LT
⌘	838	Beige Brown-VY DK	839	Beige Brown-DK
⌘	645	Beaver Gray-VY DK	646	Beaver Gray-DK
⌘	645	Beaver Gray-VY DK	3860	Cocoa
♥	934	Black Avocado Green	935	Avocado Green-DK
○	950	Desert Sand-LT	842	Beige Brown-VY LT
▸	535	Ash Gray-VY LT	645	Beaver Gray-VY DK
⌘	632	Desert Sand-UL VY DK	839	Beige Brown-DK
†	924	Gray Green--VY DK	3362	Pine Green-DK
..	3721	Shell Pink-DK	3860	Cocoa
●	632	Desert Sand-UL VY DK	3787	Brown Gray-DK
⌘	414	Steel Gray-DK	927	Gray Green-LT
✓	452	Shell Gray-MD	927	Gray Green-LT
	927	Gray Green-LT	932	Antique Blue-LT
..	437	Tan-LT	3064	Desert Sand
⌘	3032	Mocha Brown-MD	3790	Beige Gray-UL DK
**	3031	Mocha Brown-VY DK	3781	Mocha Brown-DK
✕	935	Avocado Green-DK	3031	Mocha Brown-VY DK
⌘	3781	Mocha Brown-DK	3787	Brown Gray-DK
●	3371	Black Brown	934	Black Avocado Green
⌘	934	Black Avocado Green	938	Coffee Brown-UL DK
*	317	Pewter Gray	3768	Gray Green-DK
⌘	640	Beige Gray-VY DK	3860	Cocoa
⌘	924	Gray Green--VY DK	3021	Brown Gray-VY DK
⌘	839	Beige Brown-DK	840	Beige Brown-MD
○	924	Gray Green--VY DK	310	Black
✓	224	Shell Pink-VY LT	738	Tan-VY LT
○	407	Desert Sand-DK	437	Tan-LT
❖	632	Desert Sand-UL VY DK	840	Beige Brown-MD
☾	3768	Gray Green-DK	926	Gray Green-MD
↑	924	Gray Green--VY DK	935	Avocado Green-DK
⌘	924	Gray Green--VY DK	844	Beaver Brown-UL DK
←	844	Beaver Brown-UL DK	935	Avocado Green-DK
○	924	Gray Green--VY DK	500	Blue Green-VY DK
⊙	646	Beaver Gray-DK	3782	Mocha Brown-LT
⌘	317	Pewter Gray	3848	Teal Green-MD
⌘	3848	Teal Green-MD	3768	Gray Green-DK
↔	543	Beige Brown-UL VY LT	453	Shell Gray-LT
⌘	646	Beaver Gray-DK	3787	Brown Gray-DK
⌘	452	Shell Gray-MD	648	Beaver Gray-LT
—	842	Beige Brown-VY LT	3782	Mocha Brown-LT
⌘	3032	Mocha Brown-MD	3861	Cocoa-LT
(951	Tawny-LT	3866	Mocha Brown-UL VY LT
♣	924	Gray Green--VY DK	501	Blue Green-DK
⌘	844	Beaver Brown-UL DK	501	Blue Green-DK
+	413	Pewter Gray-DK	501	Blue Green-DK
♠	844	Beaver Brown-UL DK	3787	Brown Gray-DK
⌘	224	Shell Pink-VY LT	407	Desert Sand-DK
↑	3859	Rosewood-LT	3032	Mocha Brown-MD

▲	3863	Mocha Beige-MD	3864	Mocha Beige-LT
↖	3828	Hazelnut Brown	356	Terra Cotta-MD
▲	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
×	3772	Desert Sand-VY DK	3064	Desert Sand
⊕	3064	Desert Sand	632	Desert Sand-UL VY DK
田	452	Shell Gray-MD	646	Beaver Gray-DK
↓	924	Gray Green--VY DK	3031	Mocha Brown-VY DK
▲	3781	Mocha Brown-DK	844	Beaver Brown-UL DK
⊗	3790	Beige Gray-UL DK	632	Desert Sand-UL VY DK
◎	407	Desert Sand-DK	840	Beige Brown-MD
◆	934	Black Avocado Green	3021	Brown Gray-VY DK
⋈	407	Desert Sand-DK	3782	Mocha Brown-LT
▣	3032	Mocha Brown-MD	3041	Antique Violet-MD
◇	3064	Desert Sand	3859	Rosewood-LT
◦	3753	Antique Blue-UL VY LT	3865	Winter White
↖	3772	Desert Sand-VY DK	3041	Antique Violet-MD
田	3859	Rosewood-LT	3772	Desert Sand-VY DK
⊗	3064	Desert Sand	356	Terra Cotta-MD
■	500	Blue Green-VY DK	310	Black
✱	3857	Rosewood-DK	632	Desert Sand-UL VY DK
↓	3857	Rosewood-DK	3787	Brown Gray-DK
↓	3021	Brown Gray-VY DK	839	Beige Brown-DK
●	632	Desert Sand-UL VY DK	838	Beige Brown-VY DK
◀	3772	Desert Sand-VY DK	838	Beige Brown-VY DK
●	3790	Beige Gray-UL DK	838	Beige Brown-VY DK
◇	503	Blue Green-MD	931	Antique Blue-MD
5	3753	Antique Blue-UL VY LT	928	Gray Green-VY LT
≡	632	Desert Sand-UL VY DK	3863	Mocha Beige-MD
田	3721	Shell Pink-DK	3859	Rosewood-LT
◁	224	Shell Pink-VY LT	842	Beige Brown-VY LT
▣	501	Blue Green-DK	535	Ash Gray-VY LT
⊕	407	Desert Sand-DK	3860	Cocoa
▼	838	Beige Brown-VY DK	3721	Shell Pink-DK

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	
221	Shell Pink-VY DK	5	1	4	1	4	1
223	Shell Pink-LT	9	3	9	3	8	3
224	Shell Pink-VY LT	102	40	97	38	87	34
304	Christmas Red-MD	47	18	45	17	40	15
310	Black	1067	420	1016	400	915	360
317	Pewter Gray	47	18	45	17	40	15
326	Rose-VY DK	27	10	25	9	23	9
355	Terra Cotta-DK	16	6	15	5	13	5
356	Terra Cotta-MD	23	9	21	8	19	7
407	Desert Sand-DK	303	119	289	113	260	102
413	Pewter Gray-DK	91	35	87	34	78	30
414	Steel Gray-DK	100	39	95	37	85	33
415	Pearl Gray	34	13	32	12	29	11
422	Hazelnut Brown-LT	13	5	12	4	11	4
434	Brown-LT	10	3	10	3	9	3
437	Tan-LT	82	32	78	30	70	27
452	Shell Gray-MD	278	109	265	104	238	93
453	Shell Gray-LT	470	185	448	176	403	158
500	Blue Green-VY DK	1300	511	1238	487	1114	438
501	Blue Green-DK	347	136	331	130	298	117
503	Blue Green-MD	26	10	25	9	22	8
535	Ash Gray-VY LT	360	141	343	135	309	121
543	Beige Brown-UL VY LT	548	215	522	205	470	185
613	Drab Brown-VY LT	70	27	66	25	60	23
632	Desert Sand-UL VY DK	133	52	127	50	114	44
640	Beige Gray-VY DK	49	19	47	18	42	16
644	Beige Gray-MD	128	50	122	48	109	42
645	Beaver Gray-VY DK	416	163	396	155	357	140
646	Beaver Gray-DK	341	134	325	127	292	114
647	Beaver Gray-MD	84	33	80	31	72	28
648	Beaver Gray-LT	198	77	188	74	169	66
712	Cream	215	84	205	80	184	72
738	Tan-VY LT	89	35	85	33	76	29
739	Tan-UL VY LT	68	26	65	25	58	22
746	Off White	194	76	185	72	166	65
754	Peach-LT	6	2	5	1	5	1
819	Baby Pink-LT	144	56	137	53	123	48
822	Beige Gray-LT	371	146	354	139	318	125
838	Beige Brown-VY DK	40	15	38	14	34	13
839	Beige Brown-DK	88	34	83	32	75	29
840	Beige Brown-MD	107	42	102	40	91	35
841	Beige Brown-LT	40	15	38	14	34	13
842	Beige Brown-VY LT	434	170	413	162	372	146
844	Beaver Brown-UL DK	754	296	718	282	646	254
920	Copper-MD	14	5	13	5	12	4
924	Gray Green--VY DK	3028	1192	2883	1135	2595	1021
926	Gray Green-MD	107	42	102	40	92	36
927	Gray Green-LT	171	67	163	64	146	57
928	Gray Green-VY LT	68	26	65	25	58	22
931	Antique Blue-MD	49	19	47	18	42	16
932	Antique Blue-LT	59	23	56	22	51	20
934	Black Avocado Green	2911	1146	2772	1091	2495	982
935	Avocado Green-DK	1151	453	1096	431	986	388
938	Coffee Brown-UL DK	124	48	118	46	106	41

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945	Tawny	12	4	12	4	11	4
950	Desert Sand-LT	187	73	178	70	160	62
951	Tawny-LT	269	105	257	101	231	90
975	Golden Brown-DK	7	2	6	2	6	2
3021	Brown Gray-VY DK	699	275	665	261	599	235
3023	Brown Gray-LT	105	41	100	39	90	35
3024	Brown Gray-VY LT	40	15	38	14	34	13
3031	Mocha Brown-VY DK	549	216	523	205	470	185
3032	Mocha Brown-MD	182	71	173	68	156	61
3041	Antique Violet-MD	111	43	105	41	95	37
3045	Yellow Beige-DK	22	8	20	7	18	7
3064	Desert Sand	132	51	126	49	113	44
3072	Beaver Gray-VY LT	53	20	50	19	45	17
3362	Pine Green-DK	91	35	87	34	78	30
3371	Black Brown	875	344	833	327	750	295
3721	Shell Pink-DK	31	12	30	11	27	10
3753	Antique Blue-UL VY LT	47	18	45	17	40	15
3768	Gray Green-DK	157	61	149	58	134	52
3770	Tawny-VY LT	125	49	119	46	107	42
3772	Desert Sand-VY DK	169	66	161	63	145	57
3774	Desert Sand-VY LT	256	100	244	96	219	86
3778	Terra Cotta-LT	2	1	2	1	2	1
3781	Mocha Brown-DK	79	31	75	29	67	26
3782	Mocha Brown-LT	247	97	235	92	212	83
3787	Brown Gray-DK	297	116	283	111	254	100
3790	Beige Gray-UL DK	95	37	90	35	81	31
3823	Yellow-UL Pale	19	7	18	7	16	6
3828	Hazelnut Brown	43	16	41	16	37	14
3830	Terra Cotta-MD	14	5	14	5	12	4
3848	Teal Green-MD	41	16	39	15	35	13
3856	Mahogany-UL VY LT	10	3	10	3	9	3
3857	Rosewood-DK	20	7	19	7	17	6
3859	Rosewood-LT	73	28	69	27	62	24
3860	Cocoa	128	50	122	48	110	43
3861	Cocoa-LT	70	27	67	26	60	23
3863	Mocha Beige-MD	64	25	61	24	55	21
3864	Mocha Beige-LT	143	56	136	53	123	48
3865	Winter White	324	127	309	121	278	109
3866	Mocha Brown-UL VY LT	567	223	540	212	486	191
Ecru	Ecru	344	135	327	128	294	115

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
221	Shell Pink-VY DK	7	2	6	2	3	1
223	Shell Pink-LT	14	5	12	5	6	2
224	Shell Pink-VY LT	157	61	131	51	65	26
304	Christmas Red-MD	72	27	60	23	30	11
310	Black	1647	648	1373	540	686	270
317	Pewter Gray	72	27	60	23	30	11
326	Rose-VY DK	41	16	35	14	17	7
355	Terra Cotta-DK	23	9	20	8	10	4
356	Terra Cotta-MD	34	13	29	11	14	5
407	Desert Sand-DK	468	184	390	153	195	77
413	Pewter Gray-DK	140	54	117	45	59	23
414	Steel Gray-DK	153	59	128	50	64	25

415	Pearl Gray	52	20	44	17	22	8
422	Hazelnut Brown-LT	20	7	17	6	8	3
434	Brown-LT	16	5	14	5	7	2
437	Tan-LT	126	49	105	41	53	20
452	Shell Gray-MD	428	167	357	140	179	70
453	Shell Gray-LT	725	284	605	237	302	119
500	Blue Green-VY DK	2005	788	1671	657	836	329
501	Blue Green-DK	536	211	447	176	224	88
503	Blue Green-MD	40	14	33	12	17	6
535	Ash Gray-VY LT	556	218	464	182	232	91
543	Beige Brown-UL VY LT	846	333	705	278	353	139
613	Drab Brown-VY LT	108	41	90	35	45	17
632	Desert Sand-UL VY DK	205	79	171	66	86	33
640	Beige Gray-VY DK	76	29	63	24	32	12
644	Beige Gray-MD	196	76	164	63	82	32
645	Beaver Gray-VY DK	643	252	536	210	268	105
646	Beaver Gray-DK	526	205	438	171	219	86
647	Beaver Gray-MD	130	50	108	42	54	21
648	Beaver Gray-LT	304	119	254	99	127	50
712	Cream	331	130	276	108	138	54
738	Tan-VY LT	137	52	114	44	57	22
739	Tan-UL VY LT	104	40	87	33	44	17
746	Off White	299	117	249	98	125	49
754	Peach-LT	9	2	8	2	4	1
819	Baby Pink-LT	221	86	185	72	92	36
822	Beige Gray-LT	572	225	477	188	239	94
838	Beige Brown-VY DK	61	23	51	20	26	10
839	Beige Brown-DK	135	52	113	44	56	22
840	Beige Brown-MD	164	63	137	53	68	26
841	Beige Brown-LT	61	23	51	20	26	10
842	Beige Brown-VY LT	670	263	558	219	279	110
844	Beaver Brown-UL DK	1163	457	969	381	485	191
920	Copper-MD	22	7	18	6	9	3
924	Gray Green--VY DK	4671	1838	3893	1532	1946	766
926	Gray Green-MD	166	65	138	54	69	27
927	Gray Green-LT	263	103	219	86	110	43
928	Gray Green-VY LT	104	40	87	33	44	17
931	Antique Blue-MD	76	29	63	24	32	12
932	Antique Blue-LT	92	36	77	30	38	15
934	Black Avocado Green	4491	1768	3743	1473	1871	737
935	Avocado Green-DK	1775	698	1479	582	740	291
938	Coffee Brown-UL DK	191	74	159	62	80	31
945	Tawny	20	7	17	6	8	3
950	Desert Sand-LT	288	112	240	93	120	47
951	Tawny-LT	416	162	347	135	173	68
975	Golden Brown-DK	11	4	9	3	5	2
3021	Brown Gray-VY DK	1078	423	899	353	449	176
3023	Brown Gray-LT	162	63	135	53	68	26
3024	Brown Gray-VY LT	61	23	51	20	26	10
3031	Mocha Brown-VY DK	846	333	705	278	353	139
3032	Mocha Brown-MD	281	110	234	92	117	46
3041	Antique Violet-MD	171	67	143	56	71	28
3045	Yellow Beige-DK	32	13	27	11	14	5
3064	Desert Sand	203	79	170	66	85	33
3072	Beaver Gray-VY LT	81	31	68	26	34	13
3362	Pine Green-DK	140	54	117	45	59	23
3371	Black Brown	1350	531	1125	443	563	221
3721	Shell Pink-DK	49	18	41	15	20	8
3753	Antique Blue-UL VY LT	72	27	60	23	30	11

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3768	Gray Green-DK	241	94	201	78	101	39
3770	Tawny-VY LT	193	76	161	63	80	32
3772	Desert Sand-VY DK	261	103	218	86	109	43
3774	Desert Sand-VY LT	394	155	329	129	164	65
3778	Terra Cotta-LT	4	2	3	2	2	1
3781	Mocha Brown-DK	121	47	101	39	50	20
3782	Mocha Brown-LT	382	149	318	125	159	62
3787	Brown Gray-DK	457	180	381	150	191	75
3790	Beige Gray-UL DK	146	56	122	47	61	23
3823	Yellow-UL Pale	29	11	24	9	12	5
3828	Hazelnut Brown	67	25	56	21	28	11
3830	Terra Cotta-MD	22	7	18	6	9	3
3848	Teal Green-MD	63	23	53	20	26	10
3856	Mahogany-UL VY LT	16	5	14	5	7	2
3857	Rosewood-DK	31	11	26	9	13	5
3859	Rosewood-LT	112	43	93	36	47	18
3860	Cocoa	198	77	165	65	83	32
3861	Cocoa-LT	108	41	90	35	45	17
3863	Mocha Beige-MD	99	38	83	32	41	16
3864	Mocha Beige-LT	221	86	185	72	92	36
3865	Winter White	500	196	417	164	209	82
3866	Mocha Brown-UL VY LT	875	344	729	287	365	143
Ecru	Ecru	529	207	441	173	221	86

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
221	Shell Pink-VY DK	3	1	3	1	3	1
223	Shell Pink-LT	6	2	6	2	5	2
224	Shell Pink-VY LT	63	24	60	24	58	23
304	Christmas Red-MD	29	11	28	10	27	10
310	Black	659	259	633	249	610	240
317	Pewter Gray	29	11	28	10	27	10
326	Rose-VY DK	17	6	16	6	15	6
355	Terra Cotta-DK	9	4	9	3	9	3
356	Terra Cotta-MD	14	5	13	5	13	5
407	Desert Sand-DK	187	73	180	71	173	68
413	Pewter Gray-DK	56	22	54	21	52	20
414	Steel Gray-DK	61	24	59	23	57	22
415	Pearl Gray	21	8	20	8	19	7
422	Hazelnut Brown-LT	8	3	8	3	7	3
434	Brown-LT	6	2	6	2	6	2
437	Tan-LT	50	19	48	19	47	18
452	Shell Gray-MD	171	67	165	64	159	62
453	Shell Gray-LT	290	114	279	109	269	105
500	Blue Green-VY DK	802	315	771	303	743	292
501	Blue Green-DK	215	84	206	81	199	78
503	Blue Green-MD	16	6	15	6	15	5
535	Ash Gray-VY LT	222	87	214	84	206	81
543	Beige Brown-UL VY LT	338	133	325	128	313	123
613	Drab Brown-VY LT	43	17	42	16	40	15
632	Desert Sand-UL VY DK	82	32	79	30	76	29
640	Beige Gray-VY DK	30	12	29	11	28	11
644	Beige Gray-MD	78	30	75	29	73	28
645	Beaver Gray-VY DK	257	101	247	97	238	93
646	Beaver Gray-DK	210	82	202	79	195	76

647	Beaver Gray-MD	52	20	50	19	48	19
648	Beaver Gray-LT	122	48	117	46	113	44
712	Cream	132	52	127	50	123	48
738	Tan-VY LT	55	21	53	20	51	19
739	Tan-UL VY LT	42	16	40	15	39	15
746	Off White	120	47	115	45	111	43
754	Peach-LT	4	1	3	1	3	1
819	Baby Pink-LT	89	35	85	33	82	32
822	Beige Gray-LT	229	90	220	87	212	83
838	Beige Brown-VY DK	24	9	24	9	23	9
839	Beige Brown-DK	54	21	52	20	50	19
840	Beige Brown-MD	66	25	63	24	61	23
841	Beige Brown-LT	24	9	24	9	23	9
842	Beige Brown-VY LT	268	105	258	101	248	97
844	Beaver Brown-UL DK	465	183	447	176	431	169
920	Copper-MD	9	3	8	3	8	3
924	Gray Green--VY DK	1868	735	1797	707	1730	681
926	Gray Green-MD	66	26	64	25	61	24
927	Gray Green-LT	105	41	101	39	97	38
928	Gray Green-VY LT	42	16	40	15	39	15
931	Antique Blue-MD	30	12	29	11	28	11
932	Antique Blue-LT	37	14	35	14	34	13
934	Black Avocado Green	1796	707	1727	680	1663	655
935	Avocado Green-DK	710	279	683	269	657	259
938	Coffee Brown-UL DK	76	30	73	28	71	27
945	Tawny	8	3	8	3	7	3
950	Desert Sand-LT	115	45	111	43	107	41
951	Tawny-LT	166	65	160	62	154	60
975	Golden Brown-DK	4	1	4	1	4	1
3021	Brown Gray-VY DK	431	169	415	163	399	157
3023	Brown Gray-LT	65	25	62	24	60	23
3024	Brown Gray-VY LT	24	9	24	9	23	9
3031	Mocha Brown-VY DK	338	133	325	128	313	123
3032	Mocha Brown-MD	112	44	108	42	104	41
3041	Antique Violet-MD	68	27	66	26	63	25
3045	Yellow Beige-DK	13	5	12	5	12	5
3064	Desert Sand	81	32	78	30	75	29
3072	Beaver Gray-VY LT	32	12	31	12	30	11
3362	Pine Green-DK	56	22	54	21	52	20
3371	Black Brown	540	212	519	204	500	197
3721	Shell Pink-DK	19	7	19	7	18	7
3753	Antique Blue-UL VY LT	29	11	28	10	27	10
3768	Gray Green-DK	96	37	93	36	89	35
3770	Tawny-VY LT	77	30	74	29	71	28
3772	Desert Sand-VY DK	104	41	100	39	97	38
3774	Desert Sand-VY LT	158	62	152	60	146	57
3778	Terra Cotta-LT	1	1	1	1	1	1
3781	Mocha Brown-DK	48	19	46	18	45	17
3782	Mocha Brown-LT	153	60	147	57	141	55
3787	Brown Gray-DK	183	72	176	69	169	67
3790	Beige Gray-UL DK	58	22	56	21	54	21
3823	Yellow-UL Pale	12	4	11	4	11	4
3828	Hazelnut Brown	27	10	26	10	25	9
3830	Terra Cotta-MD	9	3	8	3	8	3
3848	Teal Green-MD	25	9	24	9	23	9
3856	Mahogany-UL VY LT	6	2	6	2	6	2
3857	Rosewood-DK	12	4	12	4	11	4
3859	Rosewood-LT	45	17	43	17	41	16
3860	Cocoa	79	31	76	30	73	29

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3861	Cocoa-LT	43	17	42	16	40	15
3863	Mocha Beige-MD	40	15	38	15	37	14
3864	Mocha Beige-LT	89	35	85	33	82	32
3865	Winter White	200	78	192	75	185	73
3866	Mocha Brown-UL VY LT	350	138	336	132	324	127
Ecru	Ecru	212	83	204	80	196	77

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
221	Shell Pink-VY DK	3	1	2	1	2	1
223	Shell Pink-LT	5	2	5	2	5	2
224	Shell Pink-VY LT	56	22	52	20	49	19
304	Christmas Red-MD	26	10	24	9	23	8
310	Black	588	231	549	216	515	203
317	Pewter Gray	26	10	24	9	23	8
326	Rose-VY DK	15	6	14	5	13	5
355	Terra Cotta-DK	8	3	8	3	7	3
356	Terra Cotta-MD	12	5	11	4	11	4
407	Desert Sand-DK	167	66	156	61	146	57
413	Pewter Gray-DK	50	19	47	18	44	17
414	Steel Gray-DK	55	21	51	20	48	19
415	Pearl Gray	19	7	17	7	16	6
422	Hazelnut Brown-LT	7	3	7	2	6	2
434	Brown-LT	6	2	5	2	5	2
437	Tan-LT	45	17	42	16	39	15
452	Shell Gray-MD	153	60	143	56	134	52
453	Shell Gray-LT	259	102	242	95	227	89
500	Blue Green-VY DK	716	282	668	263	627	246
501	Blue Green-DK	192	75	179	70	168	66
503	Blue Green-MD	14	5	13	5	12	5
535	Ash Gray-VY LT	199	78	185	73	174	68
543	Beige Brown-UL VY LT	302	119	282	111	264	104
613	Drab Brown-VY LT	39	15	36	14	34	13
632	Desert Sand-UL VY DK	73	28	68	26	64	25
640	Beige Gray-VY DK	27	10	25	10	24	9
644	Beige Gray-MD	70	27	65	25	61	24
645	Beaver Gray-VY DK	230	90	214	84	201	79
646	Beaver Gray-DK	188	73	175	68	164	64
647	Beaver Gray-MD	46	18	43	17	41	16
648	Beaver Gray-LT	109	42	101	40	95	37
712	Cream	118	46	110	43	104	41
738	Tan-VY LT	49	19	46	17	43	16
739	Tan-UL VY LT	37	14	35	13	33	12
746	Off White	107	42	100	39	93	37
754	Peach-LT	3	1	3	1	3	1
819	Baby Pink-LT	79	31	74	29	69	27
822	Beige Gray-LT	204	80	191	75	179	70
838	Beige Brown-VY DK	22	8	20	8	19	7
839	Beige Brown-DK	48	19	45	17	42	16
840	Beige Brown-MD	59	23	55	21	51	20
841	Beige Brown-LT	22	8	20	8	19	7
842	Beige Brown-VY LT	239	94	223	88	209	82
844	Beaver Brown-UL DK	415	163	388	152	363	143
920	Copper-MD	8	3	7	2	7	2
924	Gray Green--VY DK	1668	656	1557	613	1460	574
926	Gray Green-MD	59	23	55	22	52	20

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927	Gray Green-LT	94	37	88	34	82	32
928	Gray Green-VY LT	37	14	35	13	33	12
931	Antique Blue-MD	27	10	25	10	24	9
932	Antique Blue-LT	33	13	31	12	29	11
934	Black Avocado Green	1604	631	1497	589	1403	552
935	Avocado Green-DK	634	249	592	233	555	218
938	Coffee Brown-UL DK	68	26	64	25	60	23
945	Tawny	7	3	7	2	6	2
950	Desert Sand-LT	103	40	96	37	90	35
951	Tawny-LT	149	58	139	54	130	51
975	Golden Brown-DK	4	1	4	1	3	1
3021	Brown Gray-VY DK	385	151	359	141	337	132
3023	Brown Gray-LT	58	23	54	21	51	20
3024	Brown Gray-VY LT	22	8	20	8	19	7
3031	Mocha Brown-VY DK	302	119	282	111	264	104
3032	Mocha Brown-MD	100	39	94	37	88	34
3041	Antique Violet-MD	61	24	57	22	53	21
3045	Yellow Beige-DK	12	5	11	4	10	4
3064	Desert Sand	73	28	68	26	64	25
3072	Beaver Gray-VY LT	29	11	27	10	25	10
3362	Pine Green-DK	50	19	47	18	44	17
3371	Black Brown	482	190	450	177	422	166
3721	Shell Pink-DK	17	6	16	6	15	6
3753	Antique Blue-UL VY LT	26	10	24	9	23	8
3768	Gray Green-DK	86	33	80	31	75	29
3770	Tawny-VY LT	69	27	64	25	60	24
3772	Desert Sand-VY DK	93	37	87	34	82	32
3774	Desert Sand-VY LT	141	55	131	52	123	48
3778	Terra Cotta-LT	1	1	1	1	1	1
3781	Mocha Brown-DK	43	17	40	16	38	15
3782	Mocha Brown-LT	136	53	127	50	119	47
3787	Brown Gray-DK	163	64	152	60	143	56
3790	Beige Gray-UL DK	52	20	49	19	46	17
3823	Yellow-UL Pale	10	4	10	4	9	3
3828	Hazelnut Brown	24	9	22	8	21	8
3830	Terra Cotta-MD	8	3	7	2	7	2
3848	Teal Green-MD	23	8	21	8	20	7
3856	Mahogany-UL VY LT	6	2	5	2	5	2
3857	Rosewood-DK	11	4	10	4	10	3
3859	Rosewood-LT	40	15	37	14	35	14
3860	Cocoa	71	28	66	26	62	24
3861	Cocoa-LT	39	15	36	14	34	13
3863	Mocha Beige-MD	35	14	33	13	31	12
3864	Mocha Beige-LT	79	31	74	29	69	27
3865	Winter White	179	70	167	65	156	61
3866	Mocha Brown-UL VY LT	312	123	292	115	273	107
Ecru	Ecru	189	74	176	69	165	65

	10	20	30	40	50
10					
20					
30					
40					
50					
60					
70					

	50	60	70	80	90	100
10						
20						
30						
40						
50						
60						
70						

	100	110	120	130	140	150
10						
20						
30						
40						
50						
60						
70						

$$(11) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (12)$$

$$(12) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (13)$$

(14)

(14)

[illegible]

	50	60	70	80	90	100
80
90
100
110
120
130
140

	100	110	120	130	140	150
80
90
100
110
120
130
140
150

$$(18) \quad \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} g(s) ds + \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} h(s) ds$$

$$(19) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

	250	260	270	280	290	300
80						
90						
100						
110						
120						
130						
140						

(21)

	10	20	30	40	50
150					
160					
170					
180					
190					
200					
210					

	50	60	70	80	90	100
150
160
170
180
190
200
210

	100	110	120	130	140	150
100						
110						
120						
130						
140						
150						
160						
170						
180						
190						
200						
210						

$$(25) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \cup \mathcal{L}(\mathcal{C}) \quad (26)$$

	200	210	220	230	240	250
150	200 150 160 170 180 190 200 210	210 150 160 170 180 190 200 210	220 150 160 170 180 190 200 210	230 150 160 170 180 190 200 210	240 150 160 170 180 190 200 210	250 150 160 170 180 190 200 210
	200 150 160 170 180 190 200 210	210 150 160 170 180 190 200 210	220 150 160 170 180 190 200 210	230 150 160 170 180 190 200 210	240 150 160 170 180 190 200 210	250 150 160 170 180 190 200 210

$$(27) \quad \mathcal{L}(\mathcal{A}) = \mathcal{L}(\mathcal{B}) \quad (28)$$

(28)

[illegible]

	50	60	70	80	90	100
220						

	100	110	120	130	140	150
220						
230						
240						

[illegible]

[illegible]

	250	260	270	280	290	300						
220												
	230											
		240										

	300	310	320	330	340
220					
230					
240					