











Thread Charts








Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1 	42.6% (27.0 m)	White	0015	1004	2403	1001
2 	2.7% (1.7 m)	Brown	1565	1194	2227	1170
3 	22.4% (14.2 m)	Khaki Green	0453	1338	2572	1180
4 	8.0% (5.1 m)	Russet	1902	1038	2418	1169
5 	1.8% (1.2 m)	Khaki Green	0453	1338	2572	1180
6 	7.8% (5.0 m)	White	0015	1004	2403	1001
7 	1.3% (0.9 m)	Shell Pink	1521	1107	2375	1081
8 	3.1% (2.0 m)	Russet	1902	1038	2418	1169
9 	3.5% (2.2 m)	Black	0020	1008	2552	1182
10 	6.6% (4.2 m)	Merit Gold	0922	1137	2463	502

Upper thread 63.4 m
 Bobbin 21.1 m

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Thread Charts

Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1 	63.7% (44.9 m)	White	0015	1004	2403	1001
2 	0.7% (0.5 m)	Brown	1565	1194	2227	1170
3 	0.4% (0.3 m)	Twilight	0111	1239	2217	1297
4 	28.4% (20.0 m)	Russet	1902	1038	2418	1169
5 	5.5% (3.9 m)	Black	0020	1008	2552	1182
6 	1.2% (0.8 m)	Khaki Green	0453	1338	2572	1180
7 	0.1% (0.1 m)	Russet	1902	1038	2418	1169

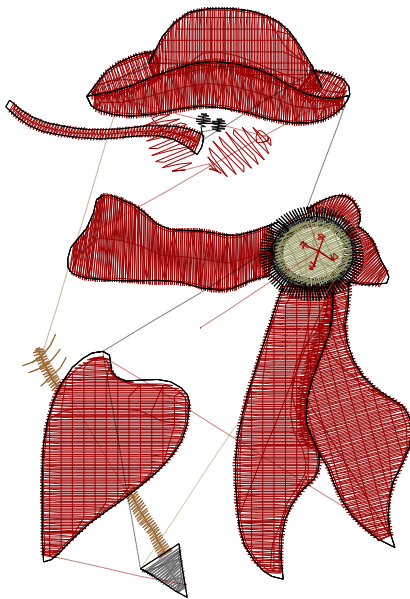
Upper thread 70.5 m

Bobbin 23.5 m












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Thread Charts

Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1 	21.6% (12.3 m)	White	0015	1004	2403	1001
2 	34.9% (19.9 m)	Medium Green	0453	1169	2551	1510
3 	8.2% (4.7 m)	Brown	1565	1194	2227	1170
4 	5.2% (2.9 m)	Deep Green	5643	1051	2240	1277
5 	0.8% (0.4 m)	Twilight	0111	1239	2217	1297
6 	8.0% (4.6 m)	Black	0020	1008	2552	1182
7 	10.1% (5.8 m)	White	0015	1004	2403	1001
8 	5.2% (3.0 m)	Medium Green	0453	1169	2551	1510
9 	1.9% (1.1 m)	Carrot	1114	1065	2330	562
10 	2.8% (1.6 m)	Black	0020	1008	2552	1182
11 	1.5% (0.8 m)	Copper	0706	1125	2466	1083

Upper thread 57.1 m
 Bobbin 19.0 m

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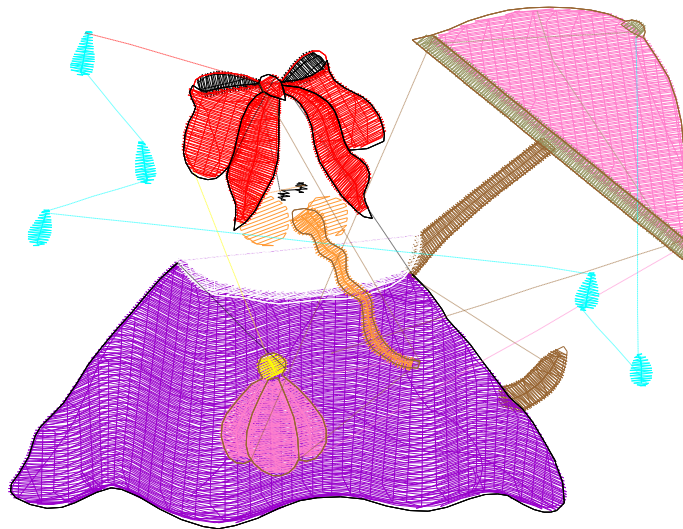


Thread Charts










Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1	35.5% (26.4 m)	White	0015	1004	2403	1001
2	2.4% (1.8 m)	Brown	1565	1194	2227	1170
3	25.3% (18.8 m)	Jacaranda	3541	1122	2292	1302
4	10.1% (7.5 m)	White	0015	1004	2403	1001
5	0.2% (0.2 m)	Gold/Yellow	0501	1267	2326	1124
6	1.9% (1.4 m)	Black	0020	1008	2552	1182
7	1.3% (1.0 m)	Carrot	1114	1065	2330	562
8	10.8% (8.0 m)	Pink	2153	1080	2259	1224
9	2.0% (1.4 m)	Khaki Green	0453	1338	2572	1180
10	1.3% (0.9 m)	Medium Turquoise	4111	1094	2306	1095
11	5.9% (4.4 m)	Red	1306	1154	2263	1037
12	1.1% (0.8 m)	Black	0020	1008	2552	1182
13	2.3% (1.7 m)	Brown	1565	1194	2227	1170

Upper thread 74.2 m
 Bobbin 24.7 m

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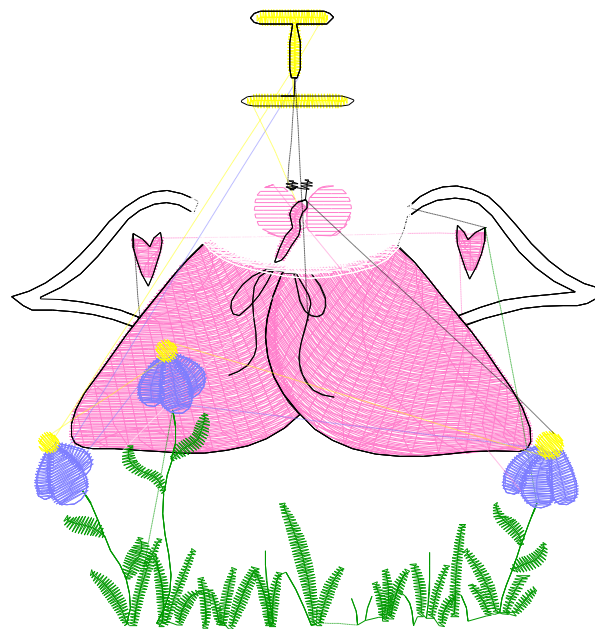


Thread Charts










Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton	Rayon Sulky Rayon
1 	41.7% (23.0 m)	White	0015	1004	2403	1001
2 	25.7% (14.2 m)	Pink	2153	1080	2259	1224
3 	3.9% (2.2 m)	Black	0020	1008	2552	1182
4 	7.3% (4.0 m)	Deep Green	5643	1051	2240	1277
5 	11.7% (6.5 m)	White	0015	1004	2403	1001
6 	5.6% (3.1 m)	Light Blue	3641	1274	2435	1249
7 	1.0% (0.5 m)	Pink	2153	1080	2259	1224
8 	2.2% (1.2 m)	Gold/Yellow	0501	1267	2326	1124
9 	0.9% (0.5 m)	Black	0020	1008	2552	1182

Upper thread 55.1 m
 Bobbin 18.4 m

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Thread Charts








Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton	Rayon Sulky	Rayon
1 	52.6% (29.4 m)	White	0015	1004	2403	1001	
2 	13.6% (7.6 m)	Twilight	0111	1239	2217	1297	
3 	3.9% (2.2 m)	Brown	1565	1194	2227	1170	
4 	3.4% (1.9 m)	Black	0020	1008	2552	1182	
5 	9.1% (5.1 m)	Khaki Green	0453	1338	2572	1180	
6 	7.6% (4.2 m)	White	0015	1004	2403	1001	
7 	5.5% (3.1 m)	Dark Purple	3732	1367	2438	572	
8 	1.5% (0.9 m)	Carrot	1114	1065	2330	562	
9 	2.8% (1.5 m)	Black	0020	1008	2552	1182	

Upper thread 55.8 m
 Bobbin 18.6 m

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Thread Charts

Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton	Sulky Rayon
1 	59.9% (29.9 m)	White	0015	1004	2403	1001
2 	6.3% (3.2 m)	Dark Purple	3732	1367	2438	572
3 	18.1% (9.0 m)	Russet	1902	1038	2418	1169
4 	2.0% (1.0 m)	White	0015	1004	2403	1001
5 	1.1% (0.6 m)	Khaki Green	0453	1338	2572	1180
6 	8.5% (4.3 m)	Brown	1565	1194	2227	1170
7 	4.0% (2.0 m)	Black	0020	1008	2552	1182

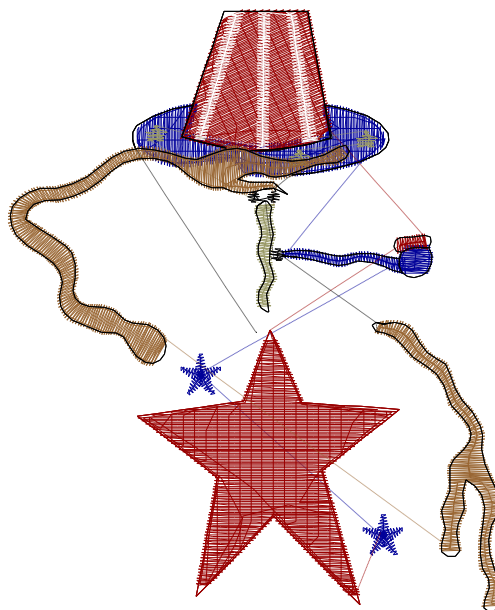
Upper thread 49.9 m

Bobbin 16.6 m














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Thread Charts

Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1 	12.2% (7.9 m)	White	0015	1004	2403	1001
2 	27.9% (18.0 m)	Silver	1972	1151	2241	1328
3 	6.1% (3.9 m)	Khaki Green	0453	1338	2572	1180
4 	3.3% (2.1 m)	Bud Green	0453	1306	2594	1279
5 	15.5% (10.0 m)	White	0015	1004	2403	1001
6 	8.5% (5.5 m)	Brown	1565	1194	2227	1170
7 	6.5% (4.2 m)	Jacaranda	3541	1122	2292	1302
8 	3.9% (2.5 m)	Khaki Green	0453	1338	2572	1180
9 	1.5% (1.0 m)	Brown	1565	1194	2227	1170
10 	3.9% (2.5 m)	Russet	1902	1038	2418	1169
11 	1.2% (0.7 m)	Black	0020	1008	2552	1182
12 	2.7% (1.7 m)	Bud Green	0453	1306	2594	1279
13 	6.9% (4.5 m)	Black	0020	1008	2552	1182

Upper thread 64.6 m
 Bobbin 21.5 m

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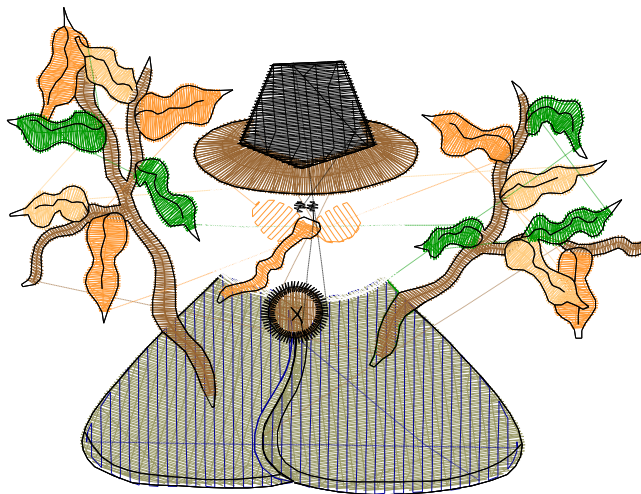


Thread Charts














Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1	21.8% (12.0 m)	White	0015	1004	2403	1001
2	24.0% (13.2 m)	Khaki Green	0453	1338	2572	1180
3	3.6% (2.0 m)	Dark Purple	3732	1367	2438	572
4	6.9% (3.8 m)	Brown	1565	1194	2227	1170
5	6.8% (3.7 m)	Carrot	1114	1065	2330	562
6	4.3% (2.4 m)	Pale Gold	1351	1270	2399	622
7	5.2% (2.9 m)	Deep Green	5643	1051	2240	1277
8	6.9% (3.8 m)	Black	0020	1008	2552	1182
9	7.7% (4.2 m)	White	0015	1004	2403	1001
10	1.0% (0.5 m)	Carrot	1114	1065	2330	562
11	6.0% (3.3 m)	Brown	1565	1194	2227	1170
12	5.8% (3.2 m)	Black	0020	1008	2552	1182

Upper thread 54.9 m
 Bobbin 18.3 m

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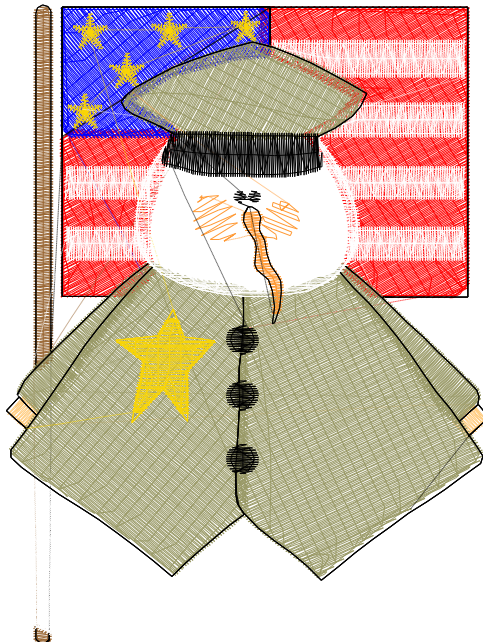


Thread Charts

Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1 	15.5% (11.2 m)	Red	1306	1154	2263	1037
2 	5.1% (3.7 m)	Blue	3522	1134	2436	1253
3 	2.2% (1.6 m)	Brown	1565	1194	2227	1170
4 	2.4% (1.7 m)	Black	0020	1008	2552	1182
5 	25.3% (18.3 m)	White	0015	1004	2403	1001
6 	0.5% (0.4 m)	Pale Gold	1351	1270	2399	622
7 	27.9% (20.2 m)	Khaki Green	0453	1338	2572	1180
8 	2.5% (1.8 m)	Black	0020	1008	2552	1182
9 	3.0% (2.2 m)	Medium Yellow	0800	1068	2466	1261
10 	7.4% (5.4 m)	White	0015	1004	2403	1001
11 	4.4% (3.2 m)	Khaki Green	0453	1338	2572	1180
12 	0.8% (0.6 m)	Carrot	1114	1065	2330	562
13 	3.0% (2.2 m)	Black	0020	1008	2552	1182

Upper thread 72.3 m
 Bobbin 24.1 m

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Thread Charts












Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1	1.8% (1.2 m)	White	0015	1004	2403	1001
2	32.6% (21.0 m)	Black	0020	1008	2552	1182
3	11.7% (7.5 m)	Pale Gold	1351	1270	2399	622
4	9.0% (5.8 m)	Carrot	1114	1065	2330	562
5	4.6% (3.0 m)	Gold/Yellow	0501	1267	2326	1124
6	2.7% (1.7 m)	Deep Green	5643	1051	2240	1277
7	4.2% (2.7 m)	Jacaranda	3541	1122	2292	1302
8	4.9% (3.1 m)	Brown	1565	1194	2227	1170
9	6.2% (4.0 m)	Black	0020	1008	2552	1182
10	10.4% (6.7 m)	White	0015	1004	2403	1001
11	9.1% (5.9 m)	Pale Gold	1351	1270	2399	622
12	1.2% (0.8 m)	Carrot	1114	1065	2330	562
13	1.7% (1.1 m)	Black	0020	1008	2552	1182

Upper thread 64.5 m
 Bobbin 21.5 m

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Thread Charts

Thread	Consumption	Name	Isacord Polyester	Madeira Rayon	Robison-Anton Rayon	Sulky Rayon
1 	26.6% (13.9 m)	White	0015	1004	2403	1001
2 	27.9% (14.6 m)	Red	1306	1154	2263	1037
3 	12.1% (6.3 m)	Pale Yellow	0630	1349	2559	1061
4 	4.9% (2.5 m)	Russet	1902	1038	2418	1169
5 	10.4% (5.4 m)	White	0015	1004	2403	1001
6 	3.9% (2.0 m)	Brown	1565	1194	2227	1170
7 	7.8% (4.1 m)	Red	1306	1154	2263	1037
8 	3.6% (1.9 m)	Pale Yellow	0630	1349	2559	1061
9 	1.6% (0.8 m)	Russet	1902	1038	2418	1169
10 	0.2% (0.1 m)	Black	0020	1008	2552	1182
11 	1.2% (0.6 m)	Carrot	1114	1065	2330	562

Upper thread 52.2 m
 Bobbin 17.4 m

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