



# 2021 Born Coopworth Rams



## Top 100 July 2023

Report Flocks	<b>391, 454, 528, 712, 1009, 1011, 1084, 1138, 1139, 1207, 1425, 1726, 1735, 1821, 2477, 2657, 3110, 3455, 4774, 4830, 4851</b>	Number of Rams	<b>100 / 2391</b>
Flock Prefix	<b>Multiple Flocks</b>	Date Report Run	<b>26-Jul-2023 11:13</b>
Flock Owner		Report No.	<b>2284744</b>
Flock Sire/Dam Breeds		Report Birth Period	<b>2021 to 2021</b>
Report Sorted By	<b>Rnk</b>	Date Breeding Values Created	<b>21-Jul-2023 19:01</b>
Genetic Analysis No.	<b>40690</b>	Base Year	<b>1995</b>
Analysis Birth Period	<b>1995 to 2023</b>		
Analysis Flocks	<b>Too many Flocks to list (1412 Flocks in the analysis)</b>		
Goal Trait Groups	<b>Bare Points; Body Condition Score; CarLA; Dag Score; Facial Eczema; Growth; Hgt Lambing; Meat Yield; Methane; Reproducti</b>		
Genetic Analysis Codes	<b>Pregscan in Reproduction (if no NLB); Reproduction excludes LW8; Trait data excluded from GE; GBVs calculated</b>		
Data Exclusion Set	<b>Permanent</b>		



### Explanation of Indexes

<b>NZ Maternal Worth with Meat</b>	<b>(* MW+M) <math>\phi</math> = (* DPA) + (* DPCR) + (* DPG) + (* DPM) + (* DPS)</b>
SIL Dual Purpose Adult Size	(* DPA) $\phi$ = -158 x EWTgBV
SIL Dual Purpose Capped Reproduction	(* DPCR) $\phi$ = non-linear index
SIL Dual Purpose Facial Eczema	(* DPX) $\phi$ = -2228 x GGT21gBV
SIL Dual Purpose Lamb Growth	(* DPG) $\phi$ = 153 x WWTgBV + 145 x WWTMgBV + 480 x CWgBV
SIL Dual Purpose Meat Yield	(* DPM) $\phi$ = 724 x LNLYgBV + 579 x HQLYgBV + 435 x SHLYgBV + 480 x CWYgBV
SIL Dual Purpose Survival	(* DPS) $\phi$ = 16049 x SURgBV + 15008 x SURMgBV
SIL Dual Purpose Wool	(* DPW) $\phi$ = 82 x FW12gBV + 190 x LFWgBV + 246 x EFWgBV
SIL Dual Purpose WormFEC	(* DPF) $\phi$ = -6.80 x FEC1gBV - 6.80 x FEC2gBV - 5.20 x AFECgBV

### Explanation of Breeding Values

AFECgBV = Adult FEC gBV	CWgBV = Carcass weight gBV	CWYgBV = Carcass weight yield gBV
EFWgBV = Ewe fleece weight gBV	EWTgBV = Ewe live weight gBV	FEC1gBV = FEC1 gBV
FEC2gBV = FEC2 gBV	FW12gBV = Fleece weight 12 gBV	GGT21gBV = GGT log at 21 days gBV
HQLYgBV = Hindquarter lean yield gBV	LFWgBV = Lamb fleece weight gBV	LNLYgBV = Loin lean yield gBV
SHLYgBV = Shoulder lean yield gBV	SURgBV = Lamb survival gBV	SURMgBV = Survival maternal gBV
WWTgBV = Weaning weight gBV	WWTMgBV = Weaning weight maternal gBV	

**List of birth flock numbers and prefixes for report animals, including sires and dams**

391 Hinenui	403 Puketauru	454 Lincoln	528 Ditton
712 Marlow	1009 Waikoura	1011 Te Rae	1084 Wharetoa
1138 Tamlet	1139 Ashgrove	1207 Waione	1425 Nikau
1481 Tautari	1726 Pine Park	1735 Glenrae	1821 Ashaig Farm
2325 Nikau B	2351 RICHWILT	2442 Ditton	2477 Lawson-Lea
2657 Te Rae	3110 Kirikau Coopworths	3455 Moeraki Downs	4751 Glenrae Coopdale
4774 Ashton Glen	4797 Kelso X	4830 Glendhu	4851 Romani

*DISCLAIMER: While all reasonable care has been taken to ensure the accuracy of information in this report, SIL expressly disclaims any and all liabilities that may arise from its use.*



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Flock Prefix **Multiple Flocks**

Period **2021**

Flock Owner

Sire Flk	Sire Tag	Dam Tag	B/R	Flock	Ram Tag	* MW+M	Rnk	* DPCR	Rnk	* DPS	Rnk	* DPG	Rnk	* DPA	Rnk	* DPM	Rnk	* DPW	Rnk	* DPX	Rnk	* DPF	Rnk
4851	543/19	867/19	2/2	4851	1428/21	5304	1	229	2058	572	1062	2303	219	1247	1	952	2	264	47	1891	249	736	156
712	503/20	253/17	2/2	712	257/21	4881	2	731	329	1007	209	2585	52	49	212	509	204	183	586	1304	818	306	722
4851	447/17	967/20	2/2	4851	1399/21	4685	3	735	312	894	376	2391	147	300	45	364	562	64	2094	2173	102	601	304
712	379/19	461/18	2/2	712	79/21	4665	4	754	244	1201	47	2958	2	-727	1821	479	249	219	201	594	1186	143	933
712	379/19	150/17	2/2	712	349/21	4525	5	823	82	1406	1	2717	20	-720	1804	300	832	215	231	966	1052	442	531
712	379/19	16/17	2/1	712	214/21	4518	6	896	18	1089	131	2886	4	-649	1656	297	848	240	89	1055	1004	279	757
712	503/20	48/18	2/2	712	184/21	4493	7	605	939	1165	66	2528	74	-234	633	429	374	194	435	1513	630	220	835
4851	447/17	106/20	2/2	4851	1115/21	4348	8	772	187	987	241	2368	164	8	248	213	1272	140	1268	1690	434	683	203
4851	543/19	460/18	2/2	4851	53/21	4312	9	455	1564	716	718	2280	237	79	175	782	18	198	393	1784	347	726	165
712	379/19	48/15	3/1	712	126/21	4304	10	897	15	1367	6	2059	490	-120	438	100	1863	202	347	1275	847	374	632
712	503/20	109/17	3/2	712	371/21	4279	11	599	967	1089	131	2158	357	69	185	364	562	173	733	1175	932	-29	1086
712	227/20	207/19	2/1	712	245/21	4268	12	697	476	1146	85	2621	40	-528	1358	332	700	157	992	1440	699	708	178
4851	646/18	42/15	3/3	4851	576/21	4249	13	418	1667	1070	155	1715	1081	440	19	606	98	192	461	1446	690	457	507
4851	646/18	176/20	2/2	4851	1332/21	4236	14	585	1026	1175	59	2389	149	-227	620	314	772	138	1293	1271	851	587	323
712	379/19	31/16	2/2	712	273/21	4232	15	690	503	1304	16	2352	178	-301	781	186	1410	220	190	1177	930	402	594
4851	447/17	913/20	2/2	4851	1233/21	4213	16	823	82	885	388	1958	651	269	65	278	923	43	2192	1912	230	739	155
712	503/20	41/18	1/1	712	389/21	4203	17	567	1101	1008	207	2227	275	-56	341	457	299	165	864	1764	366	210	852
4851	447/17	667/20	3/3	4851	1301/21	4200	18	896	18	1051	170	2451	112	-706	1779	508	208	243	81	1548	596	253	789
712	503/20	507/17	1/1	712	296/21	4182	19	603	947	901	358	2536	70	-288	750	429	374	175	698	1254	863	97	977
4851	543/19	389/18	3/3	4851	1576/21	4171	20	619	869	1124	98	2239	258	-302	783	491	232	80	2001	1261	860	522	407
712	503/20	48/18	2/2	712	185/21	4166	21	605	939	1165	66	2428	127	-374	943	341	650	195	426	1548	596	269	772
4851	502/19	887/18	3/3	4851	415/21	4161	22	650	690	1000	223	2435	123	-298	773	373	535	71	2052	1584	556	675	219
712	36/19	90/17	3/3	712	147/21	4157	23	891	24	1166	65	1662	1171	92	167	347	636	203	336	693	1147	-247	1276
4774	1387/19	366/19	2/2	1138	123/21	4152	24	476	1488	464	1377	2618	41	-608	1573	1201	1	238	98		1458		1458
712	227/20	189/19	2/1	712	427/21	4146	25	663	630	1189	51	2762	13	-984	2198	516	191	148	1145	1365	763	310	714
712	36/19	259/17	2/2	712	135/21	4126	26	893	20	1075	145	1976	622	58	200	124	1761	162	911	1095	976	-428	1397
4851	646/18	176/20	2/2	4851	1333/21	4120	27	585	1026	1175	59	2289	229	-293	765	363	568	101	1786	1521	622	678	211
712	379/19	100/17	2/2	712	359/21	4115	28	830	69	1289	19	2132	389	-348	895	211	1283	161	925	1025	1015	292	745
4851	646/18	143/20	2/2	4851	1326/21	4112	29	670	585	1072	152	2357	173	-519	1328	532	176	157	992	938	1068	777	110
4851	646/18	5/20	1/1	4851	1288/21	4103	30	614	890	1069	156	1968	638	97	160	355	596	125	1479	1345	781	647	255
712	379/19	166/17	3/2	712	168/21	4102	31	915	8	1201	47	2054	497	-218	604	149	1635	214	239	1534	614	252	793
4851	646/18	41/20	2/2	4851	1329/21	4091	32	616	880	1122	100	1747	1020	57	204	549	151	131	1388	1359	768	575	343
712	36/19	259/17	2/2	712	136/21	4090	33	893	20	1075	145	1779	941	177	111	167	1520	159	956	1095	976	-269	1297
712	379/19	1699/19	2/2	391	1644/21	4072	34	692	495	1046	179	2207	303	-182	544	308	794	193	445	647	1157	269	772
4851	717/18	2/19	4/	712	419/21	4069	35	897	15	894	376	1990	589	-107	418	396	463	136	1322	762	1127	542	378

$$MW+M = A + CR + G + M + S$$





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712	503/20	118/17	3/3	712	<b>367/21</b>	<b>4069</b>	35	<b>725</b>	348	<b>1271</b>	24	<b>1776</b>	947	<b>-56</b>	341	<b>353</b>	608	<b>166</b>	843	<b>1490</b>	656	<b>-24</b>	1079
712	503/20	158/17	2/2	712	<b>175/21</b>	<b>4066</b>	37	<b>688</b>	513	<b>997</b>	228	<b>2187</b>	323	<b>-244</b>	649	<b>438</b>	340	<b>180</b>	629	<b>1409</b>	718	<b>92</b>	982
712	379/19	245/17	2/2	712	<b>133/21</b>	<b>4063</b>	38	<b>911</b>	9	<b>1239</b>	35	<b>2201</b>	308	<b>-513</b>	1312	<b>225</b>	1205	<b>211</b>	268	<b>1075</b>	986	<b>407</b>	589
4851	646/18	41/20	2/2	4851	<b>1328/21</b>	<b>4050</b>	39	<b>616</b>	880	<b>1122</b>	100	<b>1767</b>	974	<b>-32</b>	299	<b>578</b>	128	<b>206</b>	311	<b>1948</b>	209	<b>532</b>	393
4851	447/17	91/20	2/2	4851	<b>1231/21</b>	<b>4046</b>	40	<b>856</b>	47	<b>997</b>	228	<b>2146</b>	372	<b>-330</b>	860	<b>376</b>	528	<b>90</b>	1915	<b>1350</b>	778	<b>801</b>	92
712	379/19	83/16	2/2	712	<b>117/21</b>	<b>4045</b>	41	<b>826</b>	73	<b>1184</b>	54	<b>2191</b>	320	<b>-94</b>	398	<b>-61</b>	2286	<b>217</b>	214	<b>1003</b>	1027	<b>598</b>	309
712	36/19	2228/17	2/1	528	<b>1994/21</b>	<b>4036</b>	42	<b>596</b>	985	<b>1188</b>	52	<b>1792</b>	920	<b>240</b>	80	<b>220</b>	1235	<b>179</b>	645		1458		1458
4774	2095/20	1646/19	2/2	4774	<b>3355/21</b>	<b>4034</b>	43	<b>569</b>	1096	<b>547</b>	1119	<b>2506</b>	83	<b>-477</b>	1225	<b>889</b>	5	<b>186</b>	538		1458		1458
4851	447/17	302/20	1/1	4851	<b>1201/21</b>	<b>4029</b>	44	<b>907</b>	10	<b>756</b>	633	<b>2143</b>	375	<b>59</b>	195	<b>163</b>	1551	<b>10</b>	2310	<b>1185</b>	922	<b>953</b>	32
4851	447/17	107/20	2/2	4851	<b>1286/21</b>	<b>4026</b>	45	<b>772</b>	187	<b>988</b>	240	<b>1881</b>	773	<b>34</b>	221	<b>351</b>	616	<b>76</b>	2031	<b>1949</b>	207	<b>826</b>	78
4851	685/19	736/18	2/2	4851	<b>1059/21</b>	<b>4020</b>	46	<b>710</b>	413	<b>667</b>	823	<b>2855</b>	6	<b>-678</b>	1719	<b>467</b>	272	<b>201</b>	355	<b>1342</b>	786	<b>559</b>	359
4851	717/18	74/19	2/2	712	<b>405/21</b>	<b>4013</b>	47	<b>715</b>	382	<b>1240</b>	33	<b>1523</b>	1385	<b>58</b>	200	<b>478</b>	251	<b>113</b>	1645	<b>558</b>	1194	<b>499</b>	443
4851	717/18	123/19	2/2	712	<b>281/21</b>	<b>4000</b>	48	<b>715</b>	382	<b>1164</b>	68	<b>2041</b>	511	<b>-402</b>	1014	<b>483</b>	245	<b>126</b>	1472	<b>827</b>	1102	<b>598</b>	309
1425	180/19	432/19	2/2	1425	<b>227/21</b>	<b>4000</b>	48	<b>668</b>	596	<b>942</b>	290	<b>2200</b>	309	<b>-82</b>	376	<b>273</b>	951	<b>149</b>	1120	<b>1875</b>	270	<b>457</b>	507
712	379/19	83/16	2/2	712	<b>118/21</b>	<b>3999</b>	50	<b>826</b>	73	<b>1184</b>	54	<b>2246</b>	255	<b>-51</b>	334	<b>-206</b>	2369	<b>216</b>	220	<b>1003</b>	1027	<b>566</b>	352
4851	646/18	814/18	2/2	4851	<b>908/21</b>	<b>3984</b>	51	<b>668</b>	596	<b>851</b>	446	<b>1934</b>	698	<b>176</b>	112	<b>355</b>	596	<b>54</b>	2150	<b>1589</b>	550	<b>781</b>	107
712	36/19	3/18	2/2	712	<b>166/21</b>	<b>3982</b>	52	<b>732</b>	323	<b>865</b>	422	<b>1843</b>	827	<b>188</b>	103	<b>354</b>	604	<b>187</b>	518	<b>1197</b>	911	<b>-263</b>	1291
4851	543/19	20/19	3/3	4851	<b>555/21</b>	<b>3981</b>	53	<b>584</b>	1033	<b>766</b>	616	<b>2645</b>	34	<b>-521</b>	1334	<b>507</b>	210	<b>161</b>	925	<b>1540</b>	609	<b>463</b>	496
4774	2095/20	397/16	2/2	4774	<b>3288/21</b>	<b>3979</b>	54	<b>712</b>	401	<b>701</b>	750	<b>2523</b>	79	<b>-590</b>	1531	<b>632</b>	78	<b>235</b>	107		1458		1458
4851	543/19	686/19	2/2	4851	<b>1018/21</b>	<b>3978</b>	55	<b>707</b>	434	<b>426</b>	1486	<b>2722</b>	18	<b>-633</b>	1626	<b>756</b>	26	<b>95</b>	1856	<b>1887</b>	252	<b>584</b>	327
712	503/20	286/14	2/2	712	<b>237/21</b>	<b>3974</b>	56	<b>764</b>	208	<b>683</b>	790	<b>2011</b>	553	<b>-21</b>	284	<b>537</b>	168	<b>185</b>	552	<b>771</b>	1125	<b>68</b>	1003
4851	646/18	36/20	1/1	4851	<b>1266/21</b>	<b>3970</b>	57	<b>648</b>	704	<b>1058</b>	166	<b>1928</b>	709	<b>33</b>	223	<b>301</b>	828	<b>235</b>	107	<b>2088</b>	132	<b>550</b>	368
4851	623/19	958/20	2/2	4851	<b>1382/21</b>	<b>3969</b>	58	<b>499</b>	1388	<b>530</b>	1169	<b>2530</b>	73	<b>-358</b>	914	<b>768</b>	21	<b>220</b>	190	<b>1353</b>	775	<b>665</b>	234
712	379/19	1141/20	1/1	391	<b>2084/21</b>	<b>3966</b>	59	<b>708</b>	428	<b>876</b>	409	<b>2606</b>	43	<b>-563</b>	1458	<b>340</b>	659	<b>155</b>	1022	<b>1302</b>	819	<b>195</b>	875
712	503/20	216/17	1/1	712	<b>229/21</b>	<b>3959</b>	60	<b>530</b>	1256	<b>779</b>	588	<b>1592</b>	1274	<b>676</b>	6	<b>382</b>	504	<b>146</b>	1176	<b>1424</b>	707	<b>153</b>	919
1139	247/17	103/18	2/2	1139	<b>195/21</b>	<b>3946</b>	61	<b>922</b>	5	<b>1018</b>	201	<b>1856</b>	809	<b>-282</b>	733	<b>432</b>	362	<b>171</b>	769	<b>995</b>	1032	<b>434</b>	542
4851	717/18	231/19	2/1	712	<b>261/21</b>	<b>3943</b>	62	<b>647</b>	709	<b>1005</b>	214	<b>2087</b>	455	<b>-413</b>	1046	<b>617</b>	87	<b>156</b>	1002	<b>318</b>	1286	<b>146</b>	929
4851	685/19	260/20	2/2	4851	<b>1544/21</b>	<b>3942</b>	63	<b>784</b>	152	<b>569</b>	1073	<b>2210</b>	300	<b>16</b>	242	<b>363</b>	568	<b>149</b>	1120	<b>1404</b>	723	<b>659</b>	241
712	379/19	6011/16	1/1	3110	<b>4130/21</b>	<b>3939</b>	64	<b>700</b>	457	<b>1042</b>	181	<b>1967</b>	643	<b>-61</b>	348	<b>291</b>	878	<b>191</b>	479	<b>1248</b>	870	<b>316</b>	708
712	503/20	261/17	2/2	712	<b>266/21</b>	<b>3934</b>	65	<b>783</b>	159	<b>882</b>	396	<b>1363</b>	1627	<b>588</b>	9	<b>319</b>	740	<b>145</b>	1193	<b>1673</b>	446	<b>136</b>	938
4851	717/18	69/19	2/2	712	<b>239/21</b>	<b>3925</b>	66	<b>759</b>	227	<b>1232</b>	39	<b>1813</b>	880	<b>-632</b>	1625	<b>753</b>	29	<b>130</b>	1408	<b>653</b>	1156	<b>309</b>	716
1139	247/17	19/18	2/2	1139	<b>060/21</b>	<b>3925</b>	66	<b>671</b>	580	<b>1024</b>	196	<b>2447</b>	116	<b>-608</b>	1573	<b>391</b>	477	<b>119</b>	1576	<b>-796</b>	1457	<b>489</b>	454
4851	717/18	638/19	1/1	712	<b>238/21</b>	<b>3920</b>	68	<b>465</b>	1532	<b>1092</b>	127	<b>2328</b>	196	<b>-561</b>	1449	<b>595</b>	110	<b>138</b>	1293	<b>855</b>	1092	<b>420</b>	568
4851	717/18	107/19	1/1	712	<b>67/21</b>	<b>3916</b>	69	<b>664</b>	623	<b>1032</b>	192	<b>1790</b>	921	<b>-189</b>	554	<b>619</b>	85	<b>155</b>	1022	<b>415</b>	1249	<b>461</b>	501
1425	370/18	1471/18	1/1	3110	<b>4094/21</b>	<b>3905</b>	70	<b>697</b>	476	<b>1114</b>	106	<b>2233</b>	269	<b>-521</b>	1334	<b>382</b>	504	<b>96</b>	1844	<b>610</b>	1176	<b>102</b>	971

$$MW+M = A + CR + G + M + S$$





# 2021 Born Coopworth Rams

## Top 100 July 2023



Report Flocks **391, 454, 528, 712, 1009, 1011, 1084, 1138, 1139, 1207, 1425, 1726, 1735, 1821, 2477, 2657, 3110, 3455, 4774, 4830, 4851**

Flock Prefix **Multiple Flocks**

Period **2021**

Flock Owner

Sire Flk	Sire Tag	Dam Tag	B/R	Flock	Ram Tag	* MW+M	Rnk	* DPCR	Rnk	* DPS	Rnk	* DPG	Rnk	* DPA	Rnk	* DPM	Rnk	* DPW	Rnk	* DPX	Rnk	* DPF	Rnk
712	36/19	125/17	2/2	712	<b>137/21</b>	<b>3895</b>	71	<b>803</b>	104	<b>1158</b>	70	<b>1691</b>	1129	<b>73</b>	179	<b>171</b>	1500	<b>195</b>	426	<b>1224</b>	894	<b>-379</b>	1375
712	3/20	112/18	2/2	712	<b>84/21</b>	<b>3892</b>	72	<b>730</b>	333	<b>1008</b>	207	<b>1592</b>	1274	<b>412</b>	22	<b>151</b>	1621	<b>141</b>	1255	<b>880</b>	1087	<b>508</b>	431
4851	543/19	321/18	3/3	4851	<b>1128/21</b>	<b>3891</b>	73	<b>691</b>	498	<b>1096</b>	124	<b>1751</b>	1010	<b>-114</b>	426	<b>467</b>	272	<b>180</b>	629	<b>1854</b>	293	<b>509</b>	426
712	36/19	210/16	2/2	712	<b>108/21</b>	<b>3889</b>	74	<b>812</b>	95	<b>996</b>	232	<b>1452</b>	1497	<b>516</b>	15	<b>113</b>	1804	<b>195</b>	426	<b>798</b>	1115	<b>-157</b>	1208
4851	685/19	357/18	3/3	4851	<b>871/21</b>	<b>3884</b>	75	<b>637</b>	774	<b>734</b>	689	<b>2328</b>	196	<b>-193</b>	561	<b>378</b>	516	<b>123</b>	1509	<b>1248</b>	870	<b>602</b>	302
4851	717/18	311/19	2/2	712	<b>207/21</b>	<b>3880</b>	76	<b>746</b>	267	<b>1236</b>	36	<b>2247</b>	252	<b>-813</b>	1999	<b>463</b>	286	<b>180</b>	629	<b>846</b>	1095	<b>317</b>	707
454	272/19	279/19	2/2	454	<b>247/21</b>	<b>3877</b>	77	<b>748</b>	257	<b>462</b>	1382	<b>2817</b>	7	<b>-660</b>	1682	<b>510</b>	202	<b>49</b>	2167		1458		1458
712	503/20	467/19	2/2	712	<b>345/21</b>	<b>3870</b>	78	<b>653</b>	681	<b>744</b>	665	<b>2083</b>	463	<b>103</b>	155	<b>288</b>	890	<b>184</b>	566	<b>1764</b>	366	<b>1</b>	1060
4851	543/19	500/19	2/2	4851	<b>513/21</b>	<b>3865</b>	79	<b>550</b>	1176	<b>1092</b>	127	<b>1985</b>	601	<b>-204</b>	584	<b>442</b>	334	<b>130</b>	1408	<b>1541</b>	608	<b>539</b>	381
712	36/19	1667/15	2/2	528	<b>1853/21</b>	<b>3861</b>	80	<b>681</b>	539	<b>1134</b>	89	<b>1761</b>	984	<b>124</b>	138	<b>161</b>	1565	<b>82</b>	1984		1458		1458
4851	543/19	315/19	2/1	4851	<b>1353/21</b>	<b>3860</b>	81	<b>552</b>	1169	<b>663</b>	835	<b>1387</b>	1593	<b>693</b>	5	<b>565</b>	136	<b>159</b>	956	<b>1574</b>	566	<b>520</b>	412
4851	543/19	476/18	2/1	4851	<b>472/21</b>	<b>3849</b>	82	<b>489</b>	1439	<b>635</b>	896	<b>2013</b>	550	<b>23</b>	233	<b>690</b>	48	<b>158</b>	972	<b>1395</b>	733	<b>495</b>	448
712	503/20	118/17	3/3	712	<b>368/21</b>	<b>3849</b>	82	<b>725</b>	348	<b>1271</b>	24	<b>1644</b>	1202	<b>-154</b>	496	<b>363</b>	568	<b>167</b>	827	<b>1490</b>	656	<b>-66</b>	1114
4851	646/18	157/20	2/1	4851	<b>1638/21</b>	<b>3848</b>	84	<b>636</b>	780	<b>855</b>	443	<b>2036</b>	520	<b>-282</b>	733	<b>603</b>	101	<b>109</b>	1695	<b>1180</b>	926	<b>667</b>	229
712	36/19	121/18	2/2	712	<b>70/21</b>	<b>3846</b>	85	<b>737</b>	305	<b>1101</b>	118	<b>1444</b>	1512	<b>556</b>	11	<b>8</b>	2176	<b>197</b>	403	<b>1072</b>	991	<b>-170</b>	1219
712	36/19	163/17	2/2	712	<b>283/21</b>	<b>3846</b>	85	<b>767</b>	200	<b>1115</b>	105	<b>2026</b>	535	<b>-304</b>	790	<b>241</b>	1106	<b>212</b>	259	<b>919</b>	1074	<b>-437</b>	1400
712	36/19	214/16	2/2	712	<b>219/21</b>	<b>3844</b>	87	<b>774</b>	183	<b>1172</b>	64	<b>1341</b>	1664	<b>274</b>	61	<b>284</b>	906	<b>193</b>	445	<b>915</b>	1080	<b>-194</b>	1232
712	36/19	210/16	2/2	712	<b>107/21</b>	<b>3843</b>	88	<b>812</b>	95	<b>996</b>	232	<b>1341</b>	1664	<b>593</b>	8	<b>101</b>	1861	<b>189</b>	498	<b>798</b>	1115	<b>-408</b>	1388
4851	447/17	318/20	1/1	4851	<b>1132/21</b>	<b>3831</b>	89	<b>763</b>	213	<b>819</b>	502	<b>2187</b>	323	<b>-206</b>	587	<b>269</b>	968	<b>146</b>	1176	<b>1820</b>	319	<b>546</b>	373
712	379/19	107/17	2/2	712	<b>363/21</b>	<b>3820</b>	90	<b>879</b>	30	<b>1050</b>	171	<b>1895</b>	760	<b>-119</b>	436	<b>116</b>	1793	<b>192</b>	461	<b>1327</b>	798	<b>345</b>	665
712	227/20	542/19	2/2	712	<b>87/21</b>	<b>3815</b>	91	<b>754</b>	244	<b>1086</b>	136	<b>1934</b>	698	<b>-199</b>	574	<b>239</b>	1116	<b>177</b>	673	<b>1562</b>	582	<b>346</b>	663
712	503/20	71/14	3/2	712	<b>218/21</b>	<b>3814</b>	92	<b>802</b>	106	<b>978</b>	251	<b>1868</b>	789	<b>19</b>	239	<b>147</b>	1644	<b>204</b>	332	<b>927</b>	1072	<b>226</b>	828
712	503/20	405/16	2/2	712	<b>119/21</b>	<b>3806</b>	93	<b>483</b>	1463	<b>770</b>	603	<b>2693</b>	24	<b>-755</b>	1877	<b>614</b>	93	<b>184</b>	566	<b>1236</b>	882	<b>-235</b>	1261
712	379/19	249/15	2/2	712	<b>172/21</b>	<b>3800</b>	94	<b>819</b>	87	<b>1129</b>	96	<b>1636</b>	1216	<b>18</b>	240	<b>198</b>	1351	<b>189</b>	498	<b>613</b>	1174	<b>439</b>	534
712	379/19	314/15	1/1	712	<b>353/21</b>	<b>3798</b>	95	<b>775</b>	181	<b>1233</b>	38	<b>1751</b>	1010	<b>-283</b>	737	<b>322</b>	727	<b>210</b>	279	<b>635</b>	1167	<b>171</b>	901
4851	646/18	737/18	3/3	4851	<b>144/21</b>	<b>3795</b>	96	<b>591</b>	1005	<b>930</b>	306	<b>1860</b>	803	<b>-112</b>	423	<b>527</b>	180	<b>92</b>	1888	<b>1722</b>	406	<b>784</b>	105
4851	646/18	13/16	2/2	4851	<b>76/21</b>	<b>3794</b>	97	<b>672</b>	578	<b>745</b>	660	<b>1978</b>	619	<b>-119</b>	436	<b>519</b>	187	<b>159</b>	956	<b>1384</b>	744	<b>419</b>	570
4774	2023/20	1261/19	2/2	4774	<b>3109/21</b>	<b>3793</b>	98	<b>504</b>	1360	<b>290</b>	1845	<b>2334</b>	191	<b>67</b>	186	<b>598</b>	106	<b>207</b>	303		1458		1458
712	379/19	3081/19	2/2	391	<b>1829/21</b>	<b>3791</b>	99	<b>785</b>	149	<b>912</b>	345	<b>1982</b>	613	<b>-373</b>	936	<b>484</b>	243	<b>166</b>	843	<b>542</b>	1204	<b>366</b>	638
712	379/19	491/15	2/2	712	<b>17/21</b>	<b>3779</b>	100	<b>746</b>	267	<b>1330</b>	13	<b>1974</b>	627	<b>-271</b>	696	<b>0</b>	2193	<b>177</b>	673	<b>987</b>	1038	<b>850</b>	64

$$MW+M = A + CR + G + M + S$$

