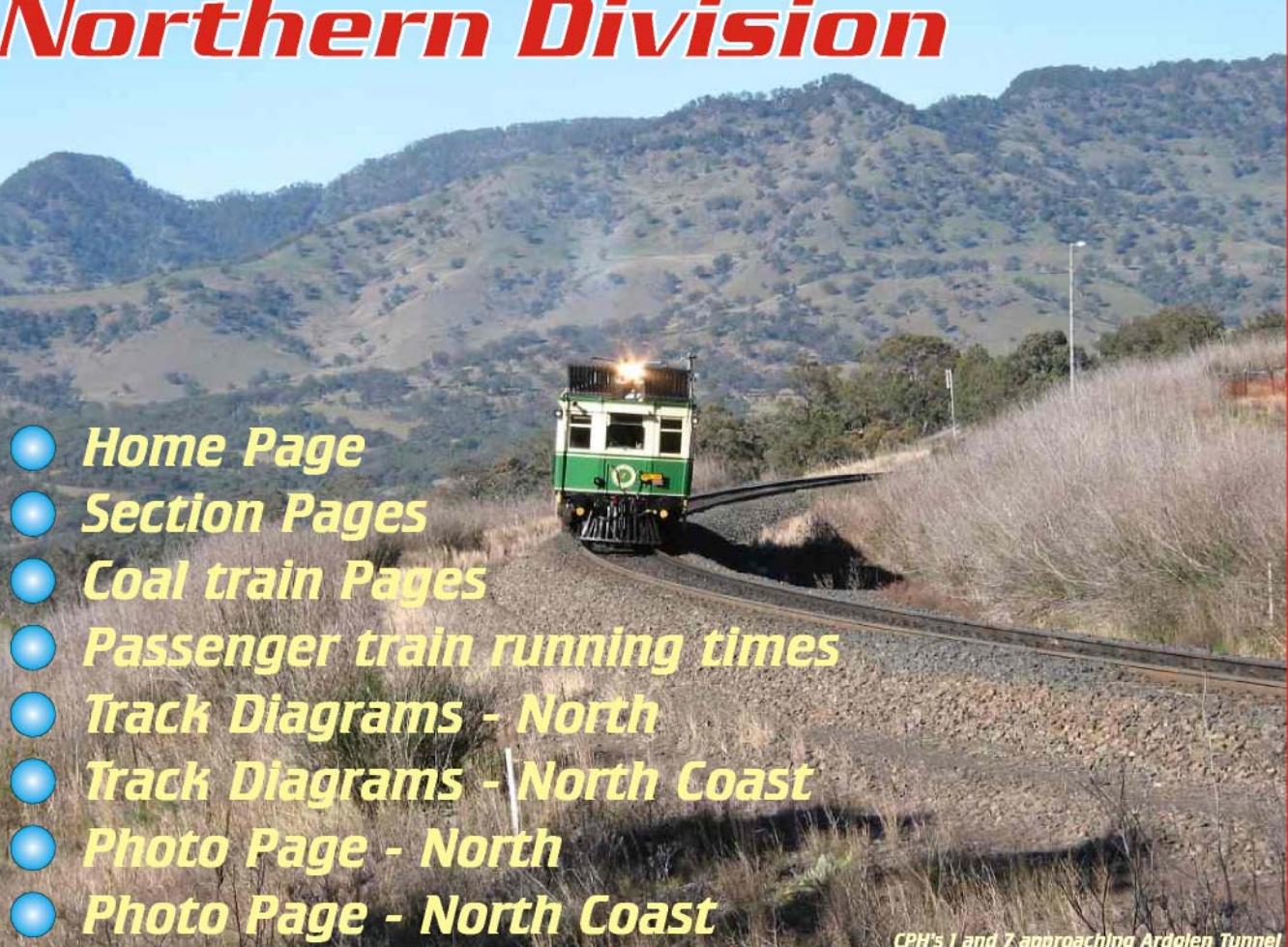




AUSTRALIAN RAIL TRACK CORPORATION LTD

*This document has been adopted by the ARTC with the permission of the NSW Government  
and will continue to apply under the authority of the ARTC General Manager Risk and Safety  
until further notice*

## **Northern Division**



- [\*\*Home Page\*\*](#)
- [\*\*Section Pages\*\*](#)
- [\*\*Coal train Pages\*\*](#)
- [\*\*Passenger train running times\*\*](#)
- [\*\*Track Diagrams - North\*\*](#)
- [\*\*Track Diagrams - North Coast\*\*](#)
- [\*\*Photo Page - North\*\*](#)
- [\*\*Photo Page - North Coast\*\*](#)

## **TRAIN OPERATING CONDITIONS**

connect  
northeast

## Northern Section Pages

**NORTHERN SECTION PAGES****Status sheet 2 (Issued August 2004)**

This table shows the current status of units in this manual.

This sheet must be used to check that your manual contains all of these units and that each unit is up to date.

When a new status sheet is forwarded to you, it is your responsibility to add, remove or replace any pages or units from this manual as instructed in the **bold** print on the new status sheet.

Page	Issued
Table of contents	June 2004
Section Location Map	June 2004

<b>SECTION 1A</b>	
<b>ENFIELD YARDS – BROADMEADOW - MORANDOO</b>	
Page	Issued
1	June 2004
2	June 2004
3	June 2004
4	<b>August 2004</b>
5	June 2004
6	June 2004
7	June 2004
8	<b>August 2004</b>

Page	Issued
1	June 2004
2	June 2004
3	June 2004
4	June 2004
5	June 2004
6	June 2004
7	June 2004
8	June 2004
9	June 2004
10	June 2004
11	June 2004
12	June 2004
13	June 2004
14	June 2004
15	June 2004
16	June 2004

Page	Issued
1	June 2004
2	June 2004

Page	Issued
1	June 2004
2	June 2004
3	June 2004
4	June 2004

<b>SECTION 3</b>	
<b>BROADMEADOW – WERRIS CREEK</b>	
Page	Issued
1	June 2004
2	June 2004
3	June 2004
4	June 2004
5	June 2004
6	<b>August 2004</b>
7	June 2004
8	June 2004
9	June 2004
10	June 2004

<b>SECTION 4</b>	
<b>WERRIS CREEK - MOREE</b>	
Page	Issued
1	June 2004
2	June 2004
3	June 2004
4	June 2004

<b>SECTION 5</b>	
<b>WERRIS CREEK - DUMARESQ</b>	
Page	Issued
1	June 2004
2	June 2004
3	June 2004
4	June 2004

<b>SECTION 6</b>	
<b>NARRABRI JCT – WALGETT - MERRYWINEBONE</b>	
Page	Issued
1	June 2004
2	June 2004
3	June 2004
4	June 2004

<b>SECTION 7</b>	
<b>MOREE - WEEMELAH</b>	
Page	Issued
1	June 2004
2	June 2004

<b>SECTION 8</b>	
<b>MOREE – NORTH STAR</b>	
Page	Issued
1	June 2004
2	June 2004

**PASSENGER TRAIN RUNNING TIMES**

Page	Issued
1	June 2004
2	June 2004
3	June 2004

**NORTHERN TRACK DIAGRAMS**

Page / Map	Issued
Index	June 2004
Explanation of symbols	June 2004
1	June 2004
2	June 2004
3	June 2004
4	June 2004
5	June 2004
6	<b>August 2004</b>
7	June 2004
8	June 2004
9	June 2004
10	June 2004
11	<b>August 2004</b>
12	June 2004
13	June 2004
14	June 2004
15	June 2004
16	June 2004
17	June 2004
18	June 2004
19	June 2004
20	June 2004
21	June 2004
22	June 2004
23	June 2004
24	June 2004
25	June 2004
26	June 2004
27	June 2004
28	June 2004
29	June 2004
30	June 2004
31	June 2004
32	June 2004
33	June 2004
34	June 2004
35	June 2004
36	June 2004
37	<b>August 2004</b>

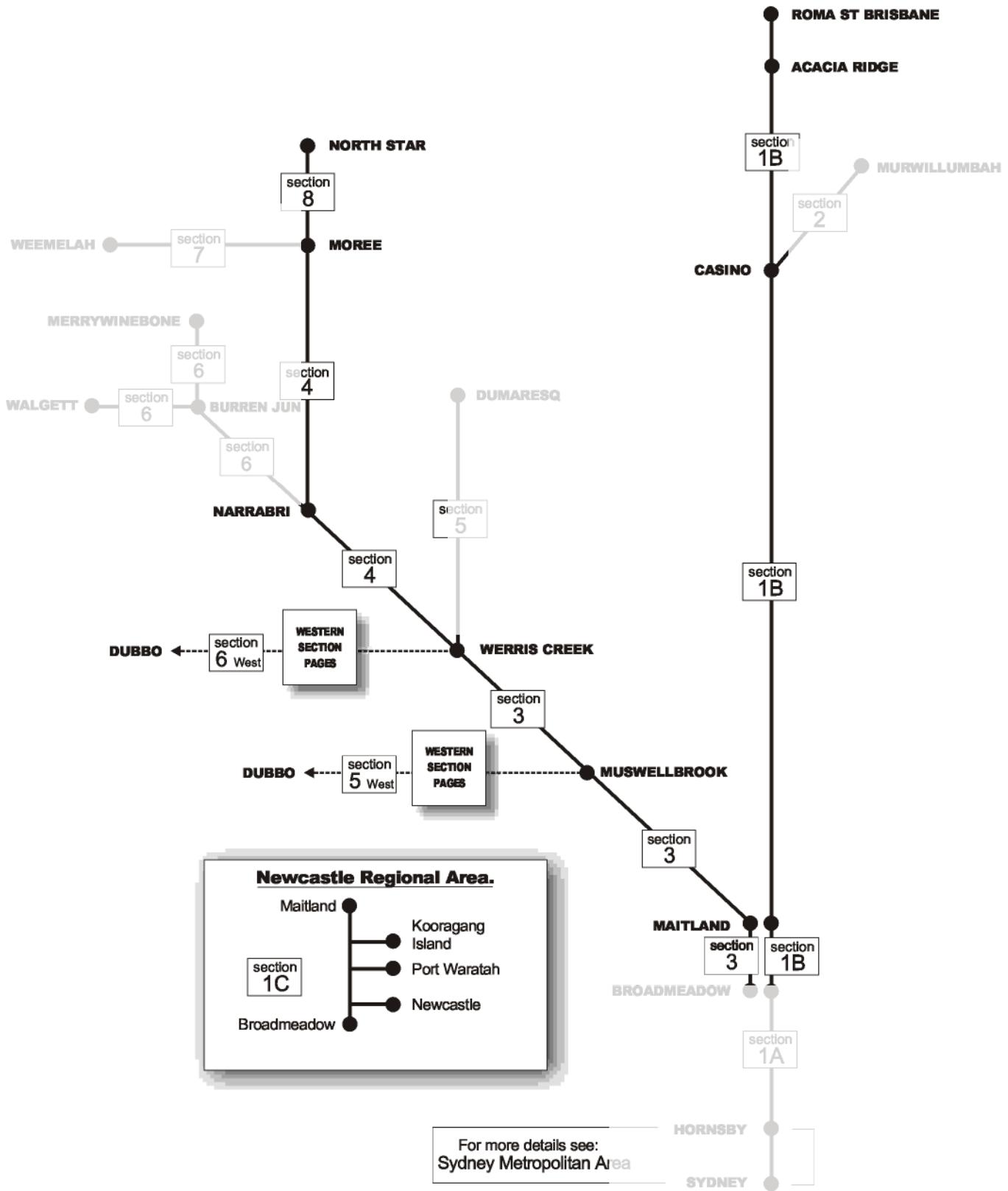
**NORTH COAST TRACK DIAGRAMS**

<b>Page / Map</b>	<b>Issued</b>
Index	June 2004
Explanation of symbols	June 2004
1	June 2004
2	June 2004
3	June 2004
4	June 2004
5	June 2004
6	June 2004
7	<b>August 2004</b>
8	June 2004
9	June 2004
10	June 2004
11	June 2004
12	June 2004
13	June 2004
14	June 2004
15	June 2004
16	June 2004
17	June 2004
18	June 2004
19	June 2004
20	June 2004
21	June 2004
22	June 2004
23	June 2004
24	June 2004

**QUEENSLAND TRACK DIAGRAMS**

<b>Page / Map</b>	<b>Issued</b>
1	June 2004
2	June 2004
3	June 2004
4	June 2004

# SECTION LOCATION MAP



**Enfield Yards - Broadmeadow - Morandoo section 1A**

## **Maximum Speed of Locomotives and Rolling Stock**

SECTIONS				
Hornsby - Cowan				
Cowan - Eraring				
Eraring Junction				
Broadmeadow -				
Broadmeadow				
Morandoo.				
Class of Track	1	1	1	Notes
Line Map reference	A	B	C	
<b>Locomotives</b>				
Multiple Locos	4	4		
S1	(b)	(b)	60	
S2	100	100	100	
S3	115	115	115	
S4	80	115	115	
S5	115	115	115	
S6	115	115	115	
S7	90	90	90	
S8	115	115	115	
S9	115	115	115	
S10	115	115	115	
S11	80	80	80	
S12	100	100	100	
S13	100	100	100	

**SEE SECTION 1C  
NEWCASTLE REGIONAL AREA**

Freight

Class A	115	115	115
Class B	100	100	100
Class C	80	80	80
Class D	65	65	65
Class E	80	80	80
Class F	65	65	65
Class G	N/A	N/A	N/A

## Passenger

	XPT	160	160	160
	Xplorer	145	145	145
	Diesel Train	115	115	115
	Loco Hauled	115	115	115

## Accident Cranes

70 tonne	60	60	60
110 tonne	115	115	115
120 tonne	50	50	50
<b>Notes</b>			

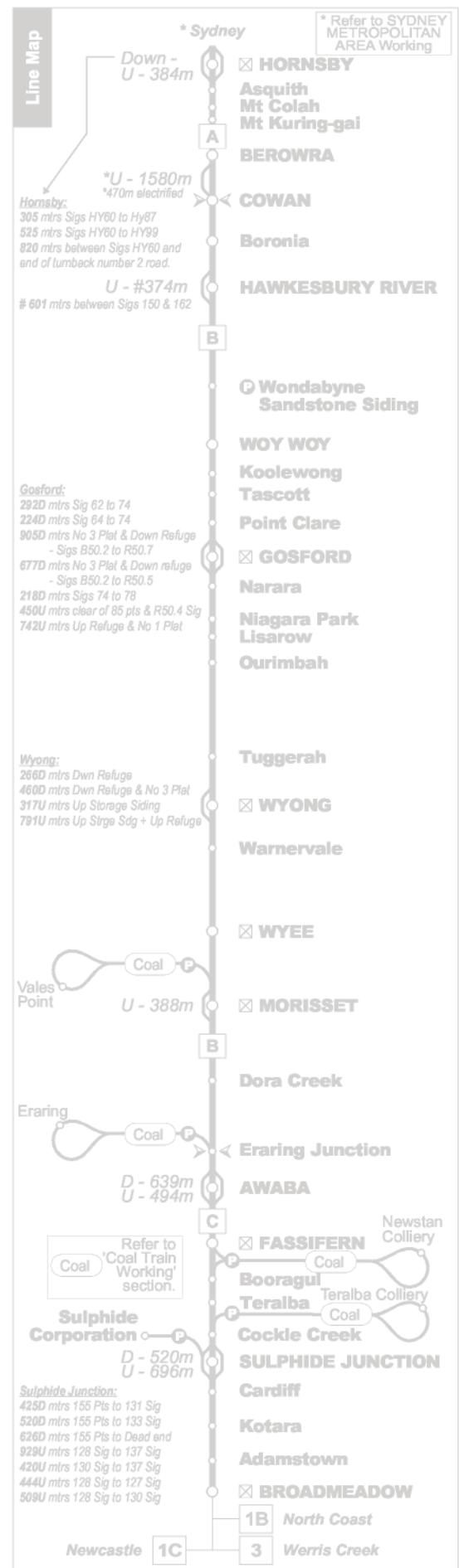
**NOTES:**

(a) Maximum speed of 40km/h through Boronia Tunnel No 3 (Down & Up North 54.300km to 54.500km)

(b) See Special conditions Page 8 of this section.

**Hornsby - Cowan**  
**Cowan - Boronia**  
**Boronia - Hawkesbury River**  
**Hawkesbury River - Broadmeadow**

Rail Vehicle Detection  
Rail Vehicle Detection (Bi directional)  
Rail Vehicle Detection (Bi directional)  
Rail Vehicle Detection



DOWN LOADS & CONDITIONS SECTIONS		LOCO-MOTIVE CLASS = L	LOCOMOTIVES LOADS TONNES					TRAIN DATA		NOTES
SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES				
1	SYD METROP - B'MEADOW / MORANDOO	L2	1000	2000	3000	4000		A	A1	
2	SYD METROP - B'MEADOW / MORANDOO	L7	735	1470	2205	2940		A	A1	
3										
4	SYD METROP - B'MEADOW / MORANDOO	L2	1300	2600	3900	5200		AB	B1	
5	SYD METROP - B'MEADOW / MORANDOO	L4	970	1940	2910	3880		AB	B1	
6	SYD METROP - B'MEADOW / MORANDOO	L7	909	1818	2727	3636		AB	B1	
7										
8	SYD METROP - B'MEADOW / MORANDOO	L2	1300	2600	3900	5200		ABCE	C1	
9	SYD METROP - B'MEADOW / MORANDOO	L4	970	1940	2910	3880		ABCE	C1	
10	SYD METROP - B'MEADOW / MORANDOO	L7	909	1818	2727	3636		ABCE	C1	
11	SYD METROP - B'MEADOW / MORANDOO	L9	590	1180	1770	2360		ABCE	C1	
12										
13	SYD METROP - B'MEADOW / MORANDOO	L3	1200	2400	3600	4800		ABCE	C2	
14	SYD METROP - B'MEADOW / MORANDOO	L4	1131	2262	3393	4524		ABCE	C2	
15	SYD METROP - B'MEADOW / MORANDOO	L5	1056	2112	3168	4224		ABCE	C2	
16	SYD METROP - B'MEADOW / MORANDOO	L6	926	1852	2778	3704		ABCE	C2	
17	SYD METROP - B'MEADOW / MORANDOO	L7	909	1818	2727	3636		ABCE	C2	
18	SYD METROP - B'MEADOW / MORANDOO	L8	822	1644	2466	3288		ABCE	C2	
19	SYD METROP - B'MEADOW / MORANDOO	L9	750	1500	2250	3000		ABCE	C2	
20	SYD METROP - B'MEADOW / MORANDOO	L10	725	1450	2175	2900		ABCE	C2	
21	SYD METROP - B'MEADOW / MORANDOO	L11	640	1280	1920	2560		ABCE	C2	
22	SYD METROP - B'MEADOW / MORANDOO	L12	615	1230	1845	2460		ABCE	C2	
23	SYD METROP - B'MEADOW / MORANDOO	L13	310	615	925	1230		ABCE	C2	
24										
25	SYD METROP - B'MEADOW / MORANDOO	L4	1131	2262	3393	4524		ABCDE	D1	
26	SYD METROP - B'MEADOW / MORANDOO	L10	725	1450	2175	2900		ABCDE	D1	
27	SYD METROP - B'MEADOW / MORANDOO	L13	410	820	1230	1640		ABCDE	D1	
28										

DOWN	SECTIONAL RUNNING TIMES						FULL SECTIONAL LOADS LOCOMOTIVE CATEGORIES = L												GRADE
	A1   B1	C1   C2	D1   Loco	L1   L2   L3   L4   L5   L6   L7   L8   L9   L10   L11   L12   L13   L14															
ENFIELD	5 5	5 5	5 5	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															
CHULLORA JCT	5 5	5 5	5 5	2881 2659 2514 2363 2086 2032 1871 1704 1643 1469 1410 984															DG
FLEM GOODS JCT	8 8	8 8	8 8	2881 2659 2514 2363 2086 2032 1871 1704 1643 1469 1410 984															1:100
FLEM MARKETS	3 3	3 3	3 3	2881 2659 2514 2363 2086 2032 1871 1704 1643 1469 1410 984															1:100
NTH STRATHFIELD JCT	6 6	6 6	6 6	2536 2339 2211 2077 1833 1786 1642 1495 1442 1288 1236 862															1:85
RHODES	3 3	3 3	3 3	3587 3314 3134 2949 2807 2535 2342 2133 2055 1841 1766 1232															1:134
WEST RYDE	2 2	2 2	2 2	1892 1743 1646 1543 1359 1328 1214 1105 1068 949 912 636															1:60
EPPING	5 6	7 8	11 4	1300 1200 1131 1056 926 909 822 750 725 640 615 410															1:40
THORNLEIGH	9 12	12 14	16 7	1300 1200 1131 1056 926 909 822 750 725 640 615 410															1:42
HORNSBY	4 5	5 5	6 4	1300 1200 1131 1056 926 909 822 750 725 640 615 410															1:40
Mt Kuring-gai X/over	5 6	6 7	10 5	1300 1200 1131 1056 926 909 822 750 725 640 615 410															1:40
BEROWRA	4 4	4 5	6 4	4337 4008 3792 3571 3158 3069 2840 2687 2491 2235 2143 1496															1:176
COWAN	4 4	4 4	4 4	2607 2405 2274 3136 1885 1837 1689 1539 1484 1325 1272 887															1:87
Boronia X/Over	3 3	3 3	3 3	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															DG
HAWKESBURY RIVER	6 6	6 6	6 6	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															DG
Wondabyne X/Over	7 6	7 7	8 6	2289 2111 1995 1872 1651 1610 1478 1346 1299 1158 1112 776															1:75
WOY WOY	8 9	9 9	12 7	1300 1200 1131 1056 926 909 822 750 725 640 615 410															1:40
GOSFORD	6 6	6 6	7 6	2028 1869 1766 1656 1459 1425 1304 1188 1147 1021 980 684															1:65
OURIMBAH	8 8	8 8	10 7	2990 2760 2609 2453 2167 2109 1944 1770 1707 1526 1465 1022															1:106
WYONG	6 7	8 8	10 6	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731															1:71
WYEE	8 10	12 12	15 8	1892 1743 1646 1543 1359 1328 1214 1105 1068 949 912 636															1:58
MORISSET	6 6	8 8	10 6	1607 1479 1396 1307 1149 1125 1024 933 902 799 768 536															1:50
AWABA	13 14	15 16	20 12	1458 1341 1265 1183 1040 1018 925 842 815 721 693 483															1:44
FASSIFERN	4 4	4 5	5 4	1892 1743 1646 1543 1359 1328 1214 1105 1068 949 912 636															1:60
SULPHIDE JUNCTION	9 10	10 10	14 9	1300 1200 1131 1056 926 909 822 750 725 640 615 410															1:40
ADAMSTOWN	9 10	10 10	13 9	2414 2227 2104 1976 1743 1699 1561 1422 1372 1224 1175 820															1:80
BROADMEADOW	3 3	3 3	3 3	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															DG
WOODVILLE JCT	4 4	4 4	4 3	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															Level
ISLINGTON JCT	3 3	3 3	3 2	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															Level
SCHOLEY ST JCT	4 4	4 4	4 4	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															Level
MORANDOO	10a 10a	10a 10a	10a 10a	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600															Level

UP	LOADS & CONDITIONS	LOCO-MOTIVE CLASS = L	LOCOMOTIVES					TRAIN DATA		NOTES
			SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES	
LOADS TONNES										
1	MORANDOO / B'MEADOW - SYD METROP	L2	1000	2000	3000	4000		A	A1	
2	MORANDOO / B'MEADOW - SYD METROP	L7	735	1470	2205	2940		A	A1	
3										
4	MORANDOO / B'MEADOW - SYD METROP	L2	1230	2460	3690	4920		AB	B1	
5	MORANDOO / B'MEADOW - SYD METROP	L4	970	1940	2910	3880		AB	B1	
6	MORANDOO / B'MEADOW - SYD METROP	L7	909	1818	2727	3636		AB	B1	
7										
8	MORANDOO / B'MEADOW - SYD METROP	L2	1230	2460	3690	4920		ABCE	C1	
9	MORANDOO / B'MEADOW - SYD METROP	L4	970	1940	2910	3880		ABCE	C1	
10	MORANDOO / B'MEADOW - SYD METROP	L7	909	1818	2727	3636		ABCE	C1	
11	MORANDOO / B'MEADOW - SYD METROP	L9	590	1180	1770	2360		ABCE	C1	
12										
13	MORANDOO / B'MEADOW - SYD METROP	L3	1200	2400	3600	4800		ABCE	C2	
14	MORANDOO / B'MEADOW - SYD METROP	L4	1131	2262	3393	4524		ABCE	C2	
15	MORANDOO / B'MEADOW - SYD METROP	L5	1056	2112	3168	4224		ABCE	C2	
16	MORANDOO / B'MEADOW - SYD METROP	L6	926	1852	2778	3704		ABCE	C2	
17	MORANDOO / B'MEADOW - SYD METROP	L7	909	1818	2727	3636		ABCE	C2	
18	MORANDOO / B'MEADOW - SYD METROP	L8	822	1644	2466	3288		ABCE	C2	
19	MORANDOO / B'MEADOW - SYD METROP	L9	750	1500	2250	3000		ABCE	C2	
20	MORANDOO / B'MEADOW - SYD METROP	L10	725	1450	2175	2900		ABCE	C2	
21	MORANDOO / B'MEADOW - SYD METROP	L11	640	1280	1920	2560		ABCE	C2	
22	MORANDOO / B'MEADOW - SYD METROP	L12	615	1230	1845	2460		ABCE	C2	
23	MORANDOO / B'MEADOW - SYD METROP	L13	310	615	925	1230		ABCE	C2	
24										
25	MORANDOO / B'MEADOW - SYD METROP	L4	1131	2262	3393	4524		ABCDE	D1	
26	MORANDOO / B'MEADOW - SYD METROP	L10	725	1450	2175	2900		ABCDE	D1	
27	MORANDOO / B'MEADOW - SYD METROP	L13	410	820	1230	1640		ABCDE	D1	
28										

UP	SECTIONAL RUNNING TIMES						FULL SECTIONAL LOADS									GRADE	
	A1   B1	C1   C2	D1   Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
MORANDOO to:	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
PORT WARATAH	15 15	15 15	15 15	15 15	15 15	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600											Level
SCHOLEY ST	10 10	10 10	10 10	10 10	10 10	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600											Level
ISLINGTON JUN	4 4	4 4	4 4	4 4	4 4	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600											Level
WOODVILLE JUN	3 3	3 3	3 3	3 3	3 2	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600											Level
BROADMEADOW	4 4	4 4	4 4	4 4	4 3	4426 4090 3869 3645 3223 3132 2899 2641 2542 2281 2188 1527											1:185
ADAMSTOWN	3 3	3 3	3 3	3 2	3 2	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600											Level
SULPHIDE JUN	8 9	9 9	9 9	11 7	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731												1:70
FASSIFERN	9 9	9 9	9 10	13 8	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731												1:69
AWABA	4 4	4 4	4 5	6 4	2080 1894 1789 1678 1479 1444 1322 1204 1163 1035 994 693												1:66
MORISSET	12 14	14 15	20 11	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731													1:72
WYEE	6 7	7 7	10 6	2289 2111 1995 1872 1650 1610 1478 1345 1300 1158 1110 775													1:73
WYONG	9 9	12 12	16 9	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731													1:72
OURIMBAH	6 7	8 8	10 7	3587 3314 3134 2949 2807 2535 2342 2133 2055 1841 1766 1232													1:132
GOSFORD	7 8	8 8	10 7	2289 2111 1995 1872 1651 1610 1478 1346 1299 1158 1112 776													1:75
WOY WOY	8 8	8 9	9 7	2654 2449 2315 2175 1920 1870 1720 1567 1511 1350 1295 904													1:90
Wondabyne X/Over	6 7	7 7	9 6	1892 1743 1646 1543 1359 1328 1214 1105 1068 949 912 636													1:60
HAWKESBURY RIVER	8 8	8 8	9 7	2791 2576 2435 2289 2021 1968 1812 1650 1591 1422 1365 952													1:94
Bronia X/Over	11 16	16 18	21 8	1230 1200 1131 1056 926 909 822 750 725 640 615 410													1:40
COWAN	5 6	7 8	9 3	1458 1341 1265 1183 1040 1018 925 842 815 721 693 483													1:45
BEROWRA	5 6	6 7	9 4	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731													1:72
Mt Kuring-gai X/Over	4 4	4 4	5 4	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731													1:68
HORNSBY	5 5	5 5	6 5	2414 2227 2104 1976 1743 1699 1561 1422 1372 1224 1175 820													1:82
THORNLEIGH	4 4	4 4	5 3	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731													1:72
EPPING	5 5	5 5	6 5	2161 1992 1882 1766 1557 1519 1392 1268 1224 1090 1047 731													1:72
WEST RYDE	4 4	4 4	5 4	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600													DG
RHODES	2 2	2 2	2 2	4624 4274 4044 3809 3369 3274 3032 2761 2658 2386 2288 1600													DG
NTH STRATHFIELD JUN	2 2	3 3	3 2	3587 3314 3134 2949 2607 2535 2342 2133 2055 1841 1766 1232													1:132
FLEM MARKETS	6 6	6 6	6 4	2414 2227 2104 1976 1743 1699 1561 1422 1372 1224 1175 820													1:80
FLEM GOODS JUN	3 3	3 3	3 2	2881 2659 2514 2363 2086 2032 1871 1704 1643 1469 1410 984													1:100
CHULLORA JUN	8 8	8 8	8 6	2881 2659 2514 2363 2086 2032 1871 1704 1643 1469 1410 984													1:100
ENFIELD YARDS	5a 5a	5a 5a	5a 5a	2881 2659 2514 2363 2086 2032 1871 1704 1643 1469 1410 984													1:100

### Location of Speed signs

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
For previous speed signs See SYDNEY METROPOLITAN section					
HORNSBY					
33.864					
Down refuge	33.950	X60	X85	..	..
Up Boards on Down Refuge	34.010	60	85	..	..
Up Board on Down Refuge	34.010	..	..	X60	X85
	34.090	X45	..	..	..
	34.100	..	..	40	..
	34.110	..	..	80	..
Up Board on Down Main	34.120	..	..	70	..
Down Board on Up Main	34.135	X45	..	..	..
Down Boards on Up Main	34.155	70	85	..	..
Down Brd on Turnback Sdg	34.220	60	..	..	..
Up Brd on Turnback Sdg	34.220	..	..	X45	..
Up Board on Down Main	34.245	..	..	X45	..
	34.345	X45	..	..	..
	34.425	70	85	..	..
Down Refuge	34.470	60	70	..	..
Up Brd on Turnback Sdg	34.470	..	..	X45	..
Down Refuge	34.535	X60	X70	..	..
Up Boards on Down Refuge	34.535	..	..	60	70
Down Brd on Turnback Sdg	34.595	X60	..	..	..
Up Brds on Turnback Sdg	34.595	..	..	60	..
Up Brds on Turnback Sdg	34.625	..	..	X60	..
Up Brds on Turnback Sdg	34.750	..	..	60	..
Up Board on Down Main	34.750	..	..	X60	..
	34.900	..	..	70	85
Down Boards on Up Main	35.010	X55	X65	..	..
	35.200	115	125	..	..
ASQUITH					
35.694					
	37.100	..	..	115	125
	37.167	..	..	100	105
	37.400	90	95	..	..
MT COLAH					
37.675					
	37.937	..	..	95	100
	38.000	100	105	..	..
	39.800	..	..	100	105
	40.175	75	80	..	..
MT KURING-GAI					
40.667					
	41.380	70	75	..	..
	42.005	..	..	70	75
	42.500	85	90	..	..
	44.170	..	..	80	90
	44.390	X50	X50	..	..
On Down Loop	44.710	X50	..	..	..
BEROWRA					
44.661					
	44.800	115	120	..	..
	44.840	..	..	75	85
	46.780	..	..	100	110
On Up Loop	46.995	..	..	X50	..
On Up Loop	47.075	80	85	..	..
On Up Loop	47.200	..	..	50	..
	47.485	60	65	..	..
	48.540	..	..	60	65
On Up Loop	48.590	..	..	35	..
On Up Loop	48.660	..	..	X35	..
COWAN					
48.814					

LOCATION	KILO-METRAGE	@ DOWN MAIN			
		DOWN NORM	DOWN XPT	UP NORM	UP XPT
BORONIA	48.555	X25	X35	..	..
	48.890	..	..	X25	X35
	48.960	80	90	..	..
	49.620	..	..	80	90
	49.950	65	70	..	..
	51.375	X50	X50	65	70
	51.409	..	..	..	..
	51.510	60	65	X50	X50
	51.740	..	..	60	65
	52.440	70	75	..	..
	53.000	..	..	70	75
	53.230	65	70	..	..
	53.400	..	..	65	70
	53.730	55	60	..	..
	55.750	..	..	55	60
	56.050	60	65	..	..
	56.400	..	..	60	65
	56.590	X50	X50	..	..
	56.910	70	75	X50	X50
	57.450	..	..	70	75
HAWKESBURY RIVER	57.397	@ UP MAIN			
		UP DOWN			
		NORM	XPT	NORM	XPT
BORONIA	48.960	..	..	80	90
	49.620	80	90	..	..
	49.950	..	..	65	70
	51.230	65	70	X50	X50
	51.409	X50	X50	60	65
	51.740	60	65	..	..
	52.440	..	..	70	75
	53.000	70	75	..	..
	53.230	..	..	65	70
	53.400	65	70	..	..
	53.730	..	..	55	60
	55.750	55	60	..	..
	56.050	..	..	60	65
	56.700	60	65	X50	X50
	56.780	X50	X50	..	..
	56.910	..	..	60	65
	57.450	60	65	..	..
HAWKESBURY RIVER	57.397	@ DOWN MAIN			
		DOWN NORM	DOWN XPT	UP NORM	UP XPT
		#50	#50	#50	#50
LOCATION					
Hawkesbury River Bridge					
#Permanent speed when travelling 'Wrong Road' over bridge					
	58.115	80	90	80	90
	60.590	..	..	100	105
	60.890	95	105	..	..
	61.300	..	..	80	85
	61.630	65	70	..	..
	62.000	..	..	70	75
	65.060	..	..	65	70
WONDABYNE	65.146	..	..	..	..
	65.580	..	..	50	60
	66.380	..	..	70	80
	66.625	55	60	..	..
	67.050	115	125	55	60
	68.900	..	..	110	110
	69.200	100	110	..	..
	69.500	..	..	100	110
	69.730	115	125	..	..
	72.100	..	..	115	125
	72.360	80	85	..	..
WOY WOY	72.617	..	..	..	..

@ Bidirectional working is provided on the Down and Up Main Lines between Cowan – Boronia – Hawkesbury River.

### Location of Speed signs

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
KOOLEWONG	72.905	..	..	80	80
	73.150	90	100	..	..
	74.819				
TASCOTT	75.060	..	..	90	95
	75.360	65	70	..	..
	75.920	..	..	70	75
POINT CLARE	76.280	85	90	..	..
	76.906				
GOSFORD	78.050				
NARARA	78.080	..	..	90	95
	78.300	115	120	..	..
	79.200	..	..	115	120
NIAGARA PARK	80.265	60	60	90	95
	80.850	..	..	55	60
	80.908				
LISAROW	81.035	80	90	55	60
	83.680	..	..	80	85
	83.985	75	80	..	..
OURIMBAH	84.590	..	..	75	80
	84.597				
	84.890	80	100	..	..
TUGGERAH	85.640	..	..	100	115
	86.130	75	80	..	..
	86.193				
WYONG	86.735	..	..	75	80
	87.020	105	115	..	..
	87.970	..	..	100	105
WARNERVALE	87.729				
	88.290	115	125	..	..
	90.000	110	115	..	..
WYEE	90.607				
	92.230	..	..	115	125
	92.530	115	140	..	..
MORISSET	96.840	..	..	115	140
	97.140	115	120	..	..
	97.720	..	..	110	120
ADAMSTOWN	98.020	115	140	..	..
	98.540				
	99.700	..	..	115	150
BROADMEADOW	100.000	115	130	..	..
	101.082				
	101.540	..	..	115	130
KOTARA	101.700	..	160	..	..
	105.896				
	106.350	..	..	115	150
BROOKHURST	106.800	100	105	..	..
	108.400	..	..	115	120
	111.790	..	..	100	110
CARLTON	112.090	115	130	..	..
	112.840	..	..	115	160
	114.370	..	..	105	115
MORRIS	114.680	115	160	..	..
	114.864				
	116.820	115	125	..	..
BROOKHURST	117.080	..	..	115	140
	119.020	..	..	110	120
	119.590	85	90	..	..
BROOKHURST	120.250	..	..	80	85
	120.800	115	125	..	..
	123.334				

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
DORA CREEK	124.300	..	..	115	125
	124.505	75	85	..	..
	125.270	..	..	75	80
AWABA	125.620	..	..	85	90
	125.920	100	105	..	..
	126.110	..	..	95	105
FASSIFERN	126.400	110	120	..	..
	127.232				
	129.240	..	..	105	115
TERALBA	129.540	90	95	..	..
	130.900	..	..	85	95
	131.200	70	75	..	..
BOORAGUL	131.685	..	..	70	75
	132.490	..	..	80	85
	135.045	70	80	..	..
COCKLE CREEK	136.170	..	..	65	70
	137.270	75	85	..	..
	137.305				
TERALBA	137.800	..	..	75	80
	138.090	115	125	..	..
	139.860	..	..	115	140
TERALBA	140.150	100	105	..	..
	140.800	..	..	95	100
	141.080	75	80	..	..
TERALBA	142.180	..	..	75	80
	142.313				
	142.480	100	105	..	..
# On South Fork	142.510	X25	..	..	..
	142.710	#10	..	#25	..
	143.200	..	..	100	105
TERALBA	143.500	70	75	..	..
	144.850	..	..	75	80
	145.150	85	90	..	..
TERALBA	146.060	..	..	80	85
	146.392				
	146.460	..	..	75	85
TERALBA	146.900	75	80	..	..
	147.530	..	..	75	80
	147.565				
TERALBA	147.800	115	130	..	..
	149.230	..	..	115	140
	149.550	110	115	..	..
TERALBA	150.626				
	153.260	..	..	100	110
	153.400				
TERALBA	153.560	75	85	..	..
	154.600	..	..	80	85
	155.000	70	75	..	..
TERALBA	155.083				
	156.060	65	75	..	..
	156.410	..	..	70	75
TERALBA	156.700	85	90	..	..
	158.670	..	..	75	80
	158.922				
TERALBA	159.540	100	100	..	..
	160.280	..	..	95	105
	161.120				
TERALBA	162.020	..	..	80	90
	162.320	95	100	..	..
	162.730	..	..	85	95
TERALBA	162.935				

**Station Data**

Station	Kilo-metres	Signal box Status	Hours of signal box	Facilities
Hornsby	33.864	A	Always	P
Asquith	35.694			P
Mt Colah	37.675			P
Mt Kuring-gai	40.667			P
Berowra	44.661	C	Controlled from Hornsby	P
Cowan	48.814	C	Controlled from Hornsby	LP, P
Boronia	51.409	C	Controlled from Hornsby	L
Hawkesbury River	57.397	C	Controlled from Hornsby	P
Hawkesbury River Bridge	58.436			P
Wondabyne	65.146			
Wondabyne Sandstone Siding	65.335			
Woy Woy	72.617			P
Koolewong	74.819			P
Tascott	76.906			P
Point Clare	78.050			P
Gosford	80.908	A	Always	P, TT, WC
Narara	84.597			P
Niagara Park	86.193			P
Lisarow	87.729			P
Ourimbah	90.607			P
Tuggerah	98.540			P
Wyong	101.082	A	Always	P
Warnervale	105.896			P
Wyee	114.864	P	Mon/Tue 0445 – 1700, Wed – Fri 0545 – 1700, Sat 0715 – 1445, Sun & Public Holidays- Closed	P
Vales Point Coal	119.230	C	Controlled from Morisset	L
Morisset	123.334	A	Always	P
Eraring Coal	132.590	C	Controlled from Broadmeadow Signal Control Centre	L
Dora Creek	127.232			P
Awaba	137.305	C	Controlled from Broadmeadow Signal Control Centre	P,LP
Fassifern	142.313		Attended as required for Newstan Colliery	P
Booragul	146.392			P
Teralba	147.565			P
Teralba Colliery				L
Cockle Creek	150.626			P
Sulphide Junction	153.400	C	Controlled from Broadmeadow Signal Control Centre	
Cardiff	155.083			P
Kotara Tickhole Tunnel	157.642			L
Kotara	158.922			P
Adamstown	161.120	C	Controlled from Broadmeadow Signal Control Centre	P
Broadmeadow Marshalling Yards		C	Controlled from Broadmeadow Signal Control Centre	
Broadmeadow	162.935	C	Controlled from Broadmeadow Signal Control Centre	P

## Out-of-gauge steel trains

Out-of-gauge steel trains may operate between Enfield Yards and Broadmeadow Yards subject to the conditions shown for Out-of-gauge steel trains contained in the **General Instruction Pages** section.  
The locations where crossings may be made as authorised are as follows:

<b>Flemington - Rhodes</b>	Flemington – North Strathfield goods Line signal ST301G – Down relief line
<b>Epping</b>	Down Suburban clear platform Sydney end
<b>Pennant Hills - Thornleigh</b>	Down relief line
<b>Hornsby</b>	
<b>Gosford</b>	No 3 Platform Road to Starting Signal No 32
<b>Wyong</b>	Down refuge line
<b>Awaba</b>	Down refuge line
<b>Sulphide Junction</b>	Down refuge line

## Advisory Speedsigns

Special advisory speedsigns have been positioned approaching signals at the locations shown below. Drivers of trains (except XPT's / EMU's) are required to regulate the speed of their train at such locations to ensure that before reaching the signal indicated the speed is not in excess of that figure shown on the special advisory sign. If at any point approaching the signal it is seen to be exhibiting a full clear indication, normal track speed for the train concerned may be resumed.

Location	Signal no	Speed shown on board
34.470km	Hornsby Up 3 <sup>rd</sup> Home, Main No. 21.	60
40.734km	Mt Kuring-gai Up Automatic 25.20	60
50.351km	Cowan Down Automatic 31.5	60
141.540km	Fassifern No 48 Down Home, Main (88.1)	60
142.145km	Fassifern Down Second Home, Main (88.5)	60
159.790km	Broadmeadow No 201 Down Accept (B201)	60
160.075km	Broadmeadow No 203 Down Home (B203)	60

## Tonnage Signals

Certain signals listed herein are treated as **Tonnage Signals**, that is to say, in order to avoid the risk of trains over a certain tonnage being brought to a stand at signals where it would be difficult for them to restart, these tonnage signals must not be passed by trains conveying loads in excess of 75% of the prescribed load unless the Tonnage signal is in the clear position (or by telephone instructions in the case of failure)

The following signals are to be treated as a Tonnage signal, in accordance with **NSG 608**:

Signal no	Kilometrage	Section located
WR1	17.880	Meadowbank – West Ryde
N13.87 / NS13.87	22.305	Eastwood – Epping
N14.75 / NS14.75	23.747	Epping – Cheltenham
N19.93	32.046	Normanhurst – Hornsby
# 146	57.290	Hawkesbury River
# 148	57.295	Hawkesbury River
# 150	57.300	Hawkesbury River
# 148 Repeater	57.420	Hawkesbury River
40.9	65.804	Wondabyne – Woy Woy
78.8	126.900	Dora Creek – Morisset
79.9	128.420	Dora Creek – Awaba

# The signals at Hawkesbury River are fitted with a notice plate which reads as follows:

### TONNAGE SIGNAL

TRAINS OVER  
PREScribed  
LOAD TO WAIT  
UNTIL SIGNAL IS  
AT FULL CLEAR  
OR 'T' INDICATOR  
IS ILLUMINATED

**Transfer of 90 class (S1) locomotives Kooragang – Enfield – Kooragang for wheel lathe attention**

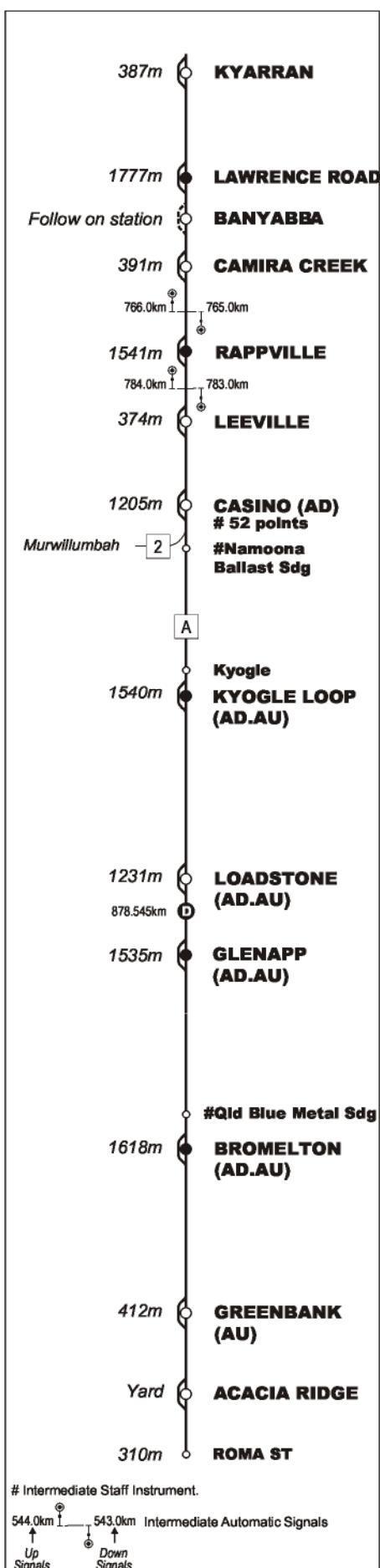
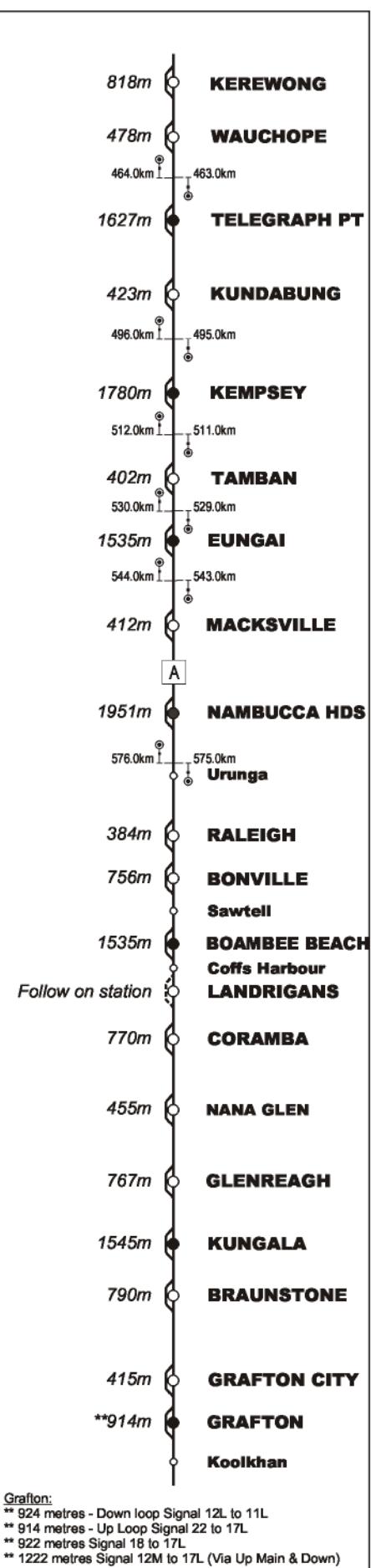
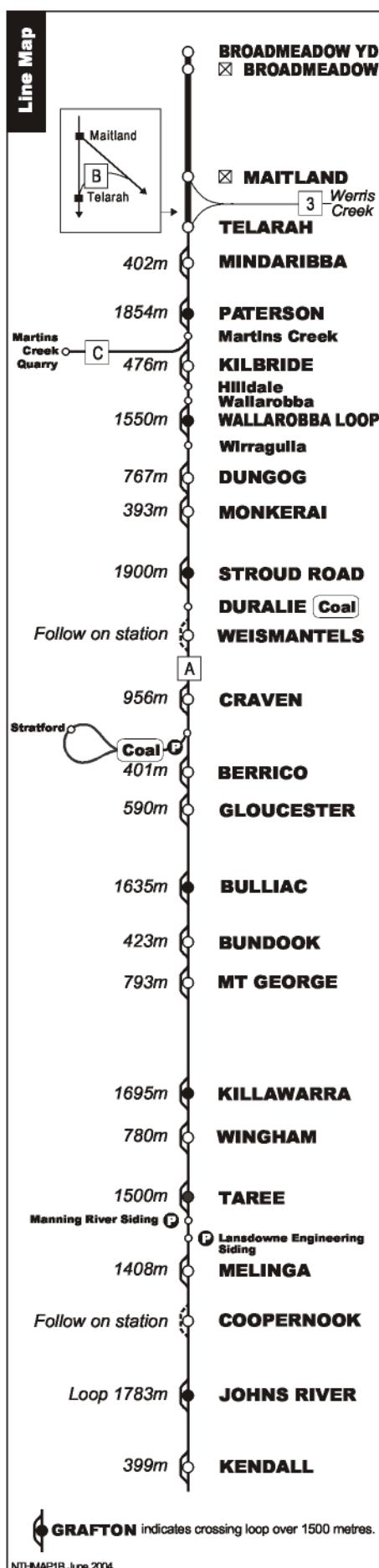
90 Class locomotives (S1 category) may be transferred from Kooragang/Port Waratah to Enfield and return for wheel lathe attention subject to the following conditions:

1. Each locomotive travels light locomotive unattached. (single locomotive)  
To overcome the necessity of the 90 class locomotive (S1 category) being driven long end leading a suitable locomotive can be used in multiple with a 90 class (S1 category) on the following lines:
  - (a) Delec to Campsie and return.
  - (b) North Strathfield/Strathfield to Delec via Chullora and Flemington Goods Junction and return.
  - (c) North Strathfield/Strathfield to Delec via Sefton Park Junction, Bankstown and Campsie and return.
2. The axle loads are to be decreased by ensuring the locomotive has a reduced fuel load.
3. The locomotive must reduce its speed to **20km/hr** when traversing the following bridges:  
**Main North:** 150.534km, 112.051km, 93.921km, 92.070km, 88.811km, 86.440km, 12.628km  
**Bankstown Line:** 19.202km
4. **Maximum track speed:**  
Kooragang/Port Waratah – Eraring Junction – Kooragang/Port Waratah = **60km/hr**.  
Enfield – Eraring Junction – Enfield = **50km/hr**.
5. Sector Civil Engineers to be advised at least 48 hours in advance.
6. Transfer of this locomotive from **Kooragang to Enfield** is to be done under block working conditions as per **NPR722**.  
Transfer of this locomotive from Enfield to Kooragang must be blocked worked where specified in the General Instruction Pages of the train Operating Conditions Manual, Section 2, page 4, - **Block Working of all classes of light locomotives**.

# Broadmeadow - Brisbane

section 1B

Line Map



Maximum Speed of Locomotives and Rolling Stock									
	SECTIONs (a) Maitland - Brisbane - Telarah Triangle Martins Creek Quarry			Notes		SECTIONs (b) Maitland - Brisbane - Telarah Triangle Martins Creek Quarry			Notes
Class of Track	1	1	1		Class of Track	1	1	1	
Line Map reference	A	B	C		Line Map reference	A	B	C	
<b>Locomotives</b>									
Multiple Locos	4	4	4		Class A	115	20	115	
S1	N/A	N/A	N/A		Class B	100	20	100	
S2	100	20	N/A		Class C	80	20	80	
S3	115	20	N/A		Class D	65	20	65	
S4	80	20	N/A	(a)	Class E	80	20	80	
S5	115	20	20		Class F	65	20	65	
S6	115	20	20		Class G	N/A	N/A	N/A	
S7	90	20	20						
S8	115	20	20						
S9	115	20	20						
S10	115	20	20						
S11	80	20	20						
S12	100	20	20						
S13	100	20	20						
S14	70	20	20						
<b>Freight</b>									
	XPT	160	20	160					
	Xplorer	145	20	145					
	Diesel Train	115	20	115					
	Loco Hauled	115	20	115					
<b>Passenger</b>									
	XPT	160	20	160					
	Xplorer	145	20	145					
	Diesel Train	115	20	115					
	Loco Hauled	115	20	115					
<b>Accident Cranes</b>									
	70 tonne	60		60					
	110 tonne	115	20	115					
	120 tonne	50		50					
	Notes								

NOTES:

- (a) Maximum speed of 40 km/h through No 1 Platform Maitland.
- (b) See SECTION 3 for details Broadmeadow to Maitland.

Safeworking System	Broadmeadow to Woodville Junction Woodville Junction to Islington Junction Islington Junction to Casino Casino to Kyogle Loop Kyogle Loop to Loadstone Loadstone to Glenapp Glenapp to Bromelton Bromelton to Greenbank Greenbank to Acacia Ridge Acacia Ridge to Clapham Clapham to Roma Street	Rail Vehicle Detection Rail Vehicle Detection Rail Vehicle Detection Electric Staff Electric Staff Electric Staff Electric Staff Electric Staff Rail Vehicle Detection Queensland Safeworking System Queensland Safeworking System
--------------------	--	--

DOWN		LOCO-MOTIVE CLASS = L	LOCOMOTIVES					TRAIN DATA		NOTES
LOADS & CONDITIONS			SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES	
	SECTIONS	LOADS TONNES								
1	BROADMEADOW – ACACIA RIDGE	L2	1000	2000	3000	4000		A	A1	
2	BROADMEADOW – ACACIA RIDGE	L7	735	1470	2205	2940		A	A1	
3										
4	BROADMEADOW – ACACIA RIDGE	L2	1500	3000	4500	6000		AB	B1	
5	BROADMEADOW – ACACIA RIDGE	L3/L4/L7	970	1940	2910	3880		AB	B1	
6	BROADMEADOW – ACACIA RIDGE	L9/L10	610	1220	1830	2440		AB	B1	
7	BROADMEADOW – ACACIA RIDGE	L12	550	1100	1650	2200		AB	B1	
8	BROADMEADOW – ACACIA RIDGE	L13	250	500	750	1000		AB	B1	
9										
10	BROADMEADOW – ACACIA RIDGE	L2	1600	3200	4800	6400		ABCE	C1	
11	BROADMEADOW – ACACIA RIDGE	L3/L4/L7	1160	2320	3480	4640		ABCE	C1	
12	BROADMEADOW – ACACIA RIDGE	L9/L10	740	1480	2220	2960		ABCE	C1	
13	BROADMEADOW – ACACIA RIDGE	L12	660	1320	1980	2640		ABCE	C1	
14	BROADMEADOW – ACACIA RIDGE	L13	300	600	900	1200		ABCE	C1	
15										
16	BROADMEADOW – ACACIA RIDGE	L2	1850	3700	5550	7400		ABCE	C2	
17	BROADMEADOW – ACACIA RIDGE	L3/L4/L7	1400	2800	4200	5600		ABCE	C2	
18	BROADMEADOW – ACACIA RIDGE	L9/L10	900	1800	2700	3600		ABCE	C2	
19	BROADMEADOW – ACACIA RIDGE	L12	750	1500	2250	3000		ABCE	C2	
20	BROADMEADOW – ACACIA RIDGE	L13	375	750	1125	1500		ABCE	C2	
21										
22	BROADMEADOW – ACACIA RIDGE	L2	2080	4160	6240	8320		ABCE	C3	
23	BROADMEADOW – ACACIA RIDGE	L3/L4	1500	3000	4500	6000		ABCE	C3	
24	BROADMEADOW – ACACIA RIDGE	L9/L10	980	1960	2940	3920		ABCE	C3	
25	BROADMEADOW – ACACIA RIDGE	L12	870	1740	2610	3480		ABCE	C3	
26	BROADMEADOW – ACACIA RIDGE	L13	415	830	1245	1660		ABCE	C3	
27										
28	BROADMEADOW – GRAFTON	L2	2414	4828	7242	9656		ABCE	C4	
29	BROADMEADOW – GRAFTON	L3	2227	4454	6681	8908		ABCE	C4	
30	BROADMEADOW – GRAFTON	L4	2104	4208	6312	8416		ABCE	C4	
31	BROADMEADOW – GRAFTON	L5	1967	3934	5901	7868		ABCE	C4	
32	BROADMEADOW – GRAFTON	L6	1743	3486	5229	6972		ABCE	C4	
33	BROADMEADOW – GRAFTON	L7	1699	3398	5097	6796		ABCE	C4	
34	BROADMEADOW – GRAFTON	L8	1561	3122	4683	6244		ABCE	C4	
35	BROADMEADOW – GRAFTON	L9	1422	2844	4266	5688		ABCE	C4	
36	BROADMEADOW – GRAFTON	L10	1372	2744	4116	5488		ABCE	C4	
37	BROADMEADOW – GRAFTON	L11	1224	2448	3672	4896		ABCE	C4	
38	BROADMEADOW – GRAFTON	L12	1175	2350	3525	4700		ABCE	C4	
39	BROADMEADOW – GRAFTON	L13	600	1200	1800	2400		ABCE	C4	
40										
41	BROADMEADOW – ACACIA RIDGE	L13	693	1386	2079	2772		ABCE	C5	

DOWN	SECTIONAL RUNNING TIMES							FULL SECTIONAL LOADS												GRADE	
	A1	B1	C1	C2	C3	C4	C5	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
BROADMEADOW TO:	2	2	2	2	2	2	2	2	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
WOODVILLE JCT	2	2	2	2	2	2	2	2	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
ISLINGTON JCT	2	2	2	2	2	2	2	2	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
SIGNAL PW4									4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
MORANDOO									4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
XYZ X/OVER	1	1	1	1	1	2	2	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
WARATAH	2	2	2	2	2	2	2	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
HANBURY JCT BOX	2	2	2	2	2	3	3	1	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
WARABROOK X/OVER	1	1	1	1	1	2	2	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	DG
KOORAGANG STH	1	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	DG
KOORAGANG NTH	1	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
HEXHAM	4	4	5	5	5	5	6	4	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
THORNTON	3	4	5	5	5	5	6	3	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
MAITLAND	6	6	8	9	9	10	13	6	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
TELARAH	2	2	2	2	2	2	2	3	3855	3562	3369	3171	2803	2726	2520	2295	2210	1981	1900	1326	1:153
MINDARIBBA	7	7	8	8	8	10	11	9	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
PATERSON	8	9	9	9	9	10	11	10	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
KILBRIDE	8	9	9	10	10	14	15	9	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
WALLAROBBA LOOP	11	12	14	15	16	20	21	9	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
DUNGOG	9	10	10	10	10	11	12	12	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
MONKERAJ	9	11	11	14	15	19	21	12	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
STROUD ROAD	14	15	15	16	16	19	20	13	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
Weismantels (F)	8	9	9	10	11	15	16	11	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
CRAVEN	12	12	13	15	16	22	25	13	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
BERRICO	10	10	11	11	11	12	13	11	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
GLoucester	7	7	7	7	8	9	8	8	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
BULLIAC	14	15	15	15	16	17	18	18	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
BUNDOOK	10	11	11	12	13	14	15	12	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
MT GEORGE	7	7	8	8	8	9	9	8	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100
KILLAWARRA	17	17	18	18	18	21	23	18	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
WINGHAM	5	5	5	5	5	5	5	8	2512	2317	2190	2057	1815	1769	1626	1481	1428	1275	1224	854	1:83
TAREE	12	12	12	13	13	13	13	13	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
MELINGA	14	15	15	15	15	17	19	14	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
Cooperook (F)	9	9	9	9	9	9	9	13	2791	2576	2435	2289	2021	1968	1812	1650	1591	1422	1365	952	1:97
JOHNS RIVER	12	12	13	13	13	14	16	12	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
KENDALL	13	13	13	13	13	15	17	15	2990	2760	2609	2453	2167	2109	1944	1770	1707	1526	1465	1022	1:106
KEREWONG	12	13	14	15	16	19	22	14	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
WAUCHOPE	7	7	8	8	8	8	9	8	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100
TELEGRAPH POINT	15	15	16	17	17	18	20	16	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
KUNDABUNG	9	10	11	11	11	13	14	11	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
KEMPSEY	15	16	17	17	17	21	23	18	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
TAMBAN	12	13	14	14	15	17	18	16	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
EUNGAI	14	15	16	17	18	21	24	15	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
MACKSVILLE	14	14	15	15	15	16	16	16	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
NAMBUCCA HEADS	12	13	13	14	14	17	19	13	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
RALEIGH	18	18	19	19	19	21	23	17	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
BONVILLE	9	10	10	11	11	13	15	10	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
BOAMBEE BEACH	8	8	8	8	8	9	10	9	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100
Landrigans (F)	13	17	18	21	23	32	36	16	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
CORAMBA	8	9	9	9	10	10	11	8	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100
NANA GLEN	10	11	11	11	11	11	11	11	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
GLENREAGH	11	11	11	11	12	13	13	11	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
KUNGALA	10	10	11	11	11	13	14	10	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
BRAUNSTONE	14	15	16	17	18	21	22	15	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
GRAFTON CITY	12	12	12	12	12	14	15	14a	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80
GRAFTON	5a	5a	5a	5a	5a	5a	6a	4a	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level
KYARRAN	12	12	13	13	14	18	14	14	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693	1:66
LAWRENCE ROAD	24	27	29	32	34	45	24	24	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693	1:66
Banyabba (F)	2	3	3	3	3	4	4	4	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100
CAMIRA CREEK	11	11	12	12	12	13	11	11	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693	1:66
RAPPVILLE	17	17	18	19	19	23	17	13	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693	1:66
LEEVILLE	12	13	13	14	14	17	13	13	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693	1:66
CASINO	10a	10a	11a	11a	11a	12a	10a	10a	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100
KYOGLE LOOP	28a	30a	30a	32a	33a	45a	29a	24	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693	1:66
LOADSTONE	24a</																				

(F) = Follow on station. No crossings.

UP LOADS & CONDITIONS SECTIONS		LOCO-MOTIVE CLASS = L	LOCOMOTIVES					TRAIN DATA		NOTES
SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES				
LOADS TONNES										
1	ACACIA RIDGE – BROADMEADOW	L2	1000	2000	3000	4000		A	A1	
2	ACACIA RIDGE – BROADMEADOW	L7	735	1470	2205	2940		A	A1	
3										
4	ACACIA RIDGE – BROADMEADOW	L2	1500	3000	4500	6000		AB	B1	
5	ACACIA RIDGE – BROADMEADOW	L3/L4/L7	970	1940	2910	3880		AB	B1	
6	ACACIA RIDGE – BROADMEADOW	L9/L10	610	1220	1830	2440		AB	B1	
7	ACACIA RIDGE – BROADMEADOW	L12	550	1100	1650	2200		AB	B1	
8	ACACIA RIDGE – BROADMEADOW	L13	250	500	750	1000		AB	B1	
9										
10	ACACIA RIDGE – BROADMEADOW	L2	1600	3200	4800	6400		ABCE	C1	
11	ACACIA RIDGE – BROADMEADOW	L3/L4/L7	1160	2320	3480	4640		ABCE	C1	
12	ACACIA RIDGE – BROADMEADOW	L9/L10	740	1480	2220	2960		ABCE	C1	
13	ACACIA RIDGE – BROADMEADOW	L12	660	1320	1980	2640		ABCE	C1	
14	ACACIA RIDGE – BROADMEADOW	L13	300	600	900	1200		ABCE	C1	
15										
16	ACACIA RIDGE – BROADMEADOW	L2	1850	3700	5550	7400		ABCE	C2	
17	ACACIA RIDGE – BROADMEADOW	L3/L4/L7	1400	2800	4200	5600		ABCE	C2	
18	ACACIA RIDGE – BROADMEADOW	L9/L10	900	1800	2700	3600		ABCE	C2	
19	ACACIA RIDGE – BROADMEADOW	L12	750	1500	2250	3000		ABCE	C2	
20	ACACIA RIDGE – BROADMEADOW	L13	375	750	1125	1500		ABCE	C2	
21										
22	ACACIA RIDGE – BROADMEADOW	L2	2050	4100	6150	8200		ABCE	C3	
23	ACACIA RIDGE – BROADMEADOW	L3/L4	1500	3000	4500	6000		ABCE	C3	
24	ACACIA RIDGE – BROADMEADOW	L9/L10	980	1960	2940	3920		ABCE	C3	
25	ACACIA RIDGE – BROADMEADOW	L12	870	1740	2610	3480		ABCE	C3	
26	ACACIA RIDGE – BROADMEADOW	L13	415	830	1245	1660		ABCE	C3	
27										
28	GRAFTON - BROADMEADOW	L2	2414	4828	7242	9656		ABCE	C4	
29	GRAFTON - BROADMEADOW	L3	2227	4454	6681	8908		ABCE	C4	
30	GRAFTON - BROADMEADOW	L4	2104	4208	6312	8416		ABCE	C4	
31	GRAFTON - BROADMEADOW	L5	1967	3934	5901	7868		ABCE	C4	
32	GRAFTON - BROADMEADOW	L6	1743	3486	5229	6972		ABCE	C4	
33	GRAFTON - BROADMEADOW	L7	1699	3398	5097	6796		ABCE	C4	
34	GRAFTON - BROADMEADOW	L8	1561	3122	4683	6244		ABCE	C4	
35	GRAFTON - BROADMEADOW	L9	1422	2844	4266	5688		ABCE	C4	
36	GRAFTON - BROADMEADOW	L10	1372	2744	4116	5488		ABCE	C4	
37	GRAFTON - BROADMEADOW	L11	1224	2448	3672	4896		ABCE	C4	
38	GRAFTON - BROADMEADOW	L12	1175	2350	3525	4700		ABCE	C4	
39	GRAFTON - BROADMEADOW	L13	600	1200	1800	2400		ABCE	C4	
40										
41	ACACIA RIDGE – BROADMEADOW	L13	693	1386	2079	2772		ABCE	C5	

<b>UP</b>	<b>SECTIONAL RUNNING TIMES</b>								<b>FULL SECTIONAL LOADS</b>												<b>GRADE</b>		
	A1	B1	C1	C2	C3	C4	D1	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	
ACACIA RIDGE																							
GREENBANK	16a	18a	21a	22a	23a			32a	15a	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
BROMELTON	17a	18a	20a	21a	21a			25a	16a	2161	1992	1882	1766	1557	1519	1392	1268	1224	1090	1047	731		1:70
GLENAPP	33a	35a	39a	41a	42a			63a	32a	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
LOADSTONE	27a	33a	34a	38a	40a			58a	26a	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
KYOGLE LOOP	24a	24a	25a	25a	25a			25a	23a	3587	3314	3134	2949	2607	2535	2342	2133	2055	1841	1766	1232		1:137
CASINO	27a	28a	29a	29a	29a			32a	25a	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
LEEVILLE	9	9	9	9	10			11	9	2340	2158	2039	1914	1688	1646	1511	1377	1328	1184	1137	793		1:77
RAPPVILLE	12	13	15	15	15			20	12	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
CAMIRA CREEK	15	15	16	16	16			20	15	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
Banyabba (F)	11	12	13	14	14			19	11	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
LAWRENCE ROAD	4	5	6	6	6			8	4	3096	2858	2702	2541	2245	2185	2014	1835	1768	1582	1518	1059		1:113
KYARRAN	22	23	24	26	27			32	20	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
GRAFTON	13a	13a	13a	14a	14a			16a	12a	2055	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693		1:66
GRAFTON CITY	3	3	3	3	3			3	3	4624	4274	4044	3809	3369	3274	3033	2761	2658	2386	2288	1600		Level
BRAUNSTONE	14	18	18	20	22	25	33	12		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
KUNGALA	16	16	18	18	19	19	20	15		2654	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904		1:90
GLENREAGH	9	9	10	10	11	11	14	9		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
NANA GLEN	11	11	11	11	11	12	16	11		2990	2760	2609	2453	2167	2109	1944	1770	1707	1526	1465	1022		1:105
CORAMBA	10	11	11	11	12	13	17	11		3032	2799	2647	2489	2198	2140	1972	1796	1731	1549	1486	1037		1:107
Landrigans (F)	8	8	8	8	9	10	15	8		3199	2954	2793	2627	2321	2259	2083	1897	1828	1636	1570	1096		1:114
BOAMBEE BEACH	14	14	14	14	14	14	15	13		4624	4274	4044	3809	3369	3274	3033	2761	2658	2386	2288	1600		Level
BONVILLE	6	6	7	7	7	7	8	6		4624	4274	4044	3809	3369	3274	3033	2761	2658	2386	2288	1600		Level
RALEIGH	9	9	10	10	11	11	15	8		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
NAMBUCCA HEADS	17	17	18	18	19	19	21	16		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
MACKSVILLE	12	13	13	13	14	15	19	11		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
EUNGAI	16	16	16	16	17	18	24	16		3587	3314	3134	2949	2607	2535	2342	2133	2055	1841	1766	1232		1:133
TAMBARA	12	13	13	14	14	15	18	12		3475	3210	3035	2856	2524	2455	2267	2065	1989	1781	1709	1193		1:129
KEMPSEY	13	14	15	15	16	16	19	13		2536	2339	2211	2077	1833	1786	1642	1495	1442	1288	1236	862		1:85
KUNDABUNG	15	15	15	16	16	17	21	14		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
TELEGRAPH POINT	11	11	13	13	13	13	16	10		4023	3717	3516	3311	2927	2845	2631	2397	2308	2070	1985	1385		1:162
WAUCHOPE	13	14	14	15	15	16	19	13		3398	3138	2968	2792	2467	2400	2216	2018	1944	1741	1670	1166		1:127
KEREWONG	7	7	8	8	8	9	12	7		3199	2954	2793	2627	2321	2259	2083	1897	1828	1636	1570	1096		1:117
KENDALL	12	12	12	13	13	13	16	11		4476	4137	3914	3687	3260	3169	2932	2671	2571	2307	2213	1544		1:190
JOHNS RIVER	15	15	15	15	15	15	19	15		4624	4274	4044	3809	3369	3274	3033	2761	2658	2386	2288	1600		1:201
Coopersnook (F)	10	10	11	11	11	11	14	10		4337	4008	3792	3571	3158	3069	2840	2687	2491	2235	2143	1496		1:178
MELINGA	10	10	10	10	11	11	13	10		3679	3398	3214	3025	2674	2600	2404	2188	2108	1889	1812	1264		1:143
TAREE	12	12	12	12	13	13	16	11		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
WINGHAM	11	11	11	11	11	12	14	10		2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984		1:101
KILLAWARRA	7	8	8	9	9	11	15	7		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
MT GEORGE	15	15	16	16	17	18	22	14		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:81
BUNDOOK	7	7	8	8	8	8	13	7		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:82
BULLIAC	11	13	13	13	14	15	19	11		2536	2339	2211	2077	1833	1786	1642	1495	1442	1288	1236	862		1:85
GLoucester	14	14	14	15	15	17	20	14		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
BERRICO	7	8	8	8	9	10	14	7		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
CRAVEN	10	11	11	12	12	13	17	11		2654	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904		1:89
Weismantels (F)	10	11	11	11	11	11	11	11		4624	4274	4044	3809	3369	3274	3033	2761	2658	2386	2288	1600		DG
STROUD ROAD	10	11	11	11	11	11	13	10		2512	2317	2190	2057	1815	1769	1626	1481	1275	1224	1175	824		1:84
MONKERAJ	12	15	16	18	20	23	31	11		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:80
DUNGOG	9	9	9	9	9	9	9	9		4624	4274	4044	3809	3369	3274	3033	2761	2658	2386	2288	1600		DG
WALLAROBBA LOOP	11	11	11	12	12	12	14	11		2946	2720	2571	2363	2135	2079	1915	1744	1681	1503	1443	1007		1:102
KILBRIDE	9	10	10	11	12	13	18	9		2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820		1:81
PATERSON	8	8	9	9	9	9	9	8		3300	3047	2882	2711	2395	2330	2150	1959	1887	1689	1621	1131		1:122
MINDARIBBA	8	9	9	9	9	9	9	10		2512	2317	2190	2057	1815	1769	1626	1481	1275	1224	1175	854		1:83
TELARAH	8	8	8	8	9	10	11	7</td															

***Location of Speed signs***

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
BROADMEADOW	162.935						192.900	X25	..	..	..
	163.600	..	..	95	100		192.950	..	85	X25	X25
WOODVILLE JUNCTION	163.670	X30	X30	X30	X30		193.200	80	85	..	..
	163.685						194.565	X25	X25	..	..
WOODVILLE JUN BOX	163.690					TELARAH	194.739				
	163.910	40	45	X30	X30		194.890	80	85	..	..
	164.000	..	..	40	40		197.330	110	110	80	85
ISLINGTON JUN BOX	164.310	X25	X25	40	40		199.630	..	..	110	110
	164.410	..	..	X25	X25		199.880	70	75	..	..
	164.647						200.260	..	..	70	75
WARATAH	164.710	115	120	..	..	MINDARIBBA	200.520	80	85	..	..
	165.964						203.462				
HANBURY JUN BOX	166.840	..	..	115	150		204.830	..	..	80	85
WARABROOK	167.934						205.090	70	75	..	..
	168.685						206.570	..	..	70	75
SANDGATE	168.090	80	90	90	110		206.870	90	95	..	..
	170.110	115	120	80	90		210.400	70	75	90	95
HEXHAM	170.509						210.940	..	..	70	75
	171.600	115	160	115	150		211.250	80	85	..	..
	175.000	..	..	115	160	PATERSON	213.224				
	175.530						213.340	75	80	80	85
TARRO	175.725	..	..	85	90		214.000	115	125	75	80
	176.800	115	150	..	..		216.080	..	..	115	125
	178.178						216.380	110	115	..	..
BERESFIELD	179.290	..	..	115	150		216.940	..	..	110	115
	179.806						217.200	75	80	..	..
THORNTON	180.070	..	..	95	105		217.930	..	..	75	80
	181.750	115	130	..	..		218.200	80	85	..	..
	182.194						218.532				
METFORD	183.000	115	150	..	..	MARTINS CREEK	219.176				
	184.960	115	115	..	..		219.700	..	..	80	85
	185.117						219.960	65	70	..	..
VICTORIA STREET	185.800	..	..	115	160		220.980	..	..	65	70
	186.540	..	..	115	140		221.290	115	125	..	..
	186.800	..	..	115	115		222.900	..	..	115	130
	187.550	95	105	..	..		223.100	105	110	..	..
	187.690	..	..	95	100	KILBRIDE	223.472				
	187.919						224.530	..	..	105	110
EAST MAITLAND	188.150	..	..	80	85		224.820	75	80	..	..
	188.831					Hilldale	226.372				
HIGH STREET	189.350	100	110	..	..		227.140	..	..	75	80
	191.400	90	105	..	..		227.420	70	75	..	..
	191.409						228.330	..	..	70	75
MAITLAND	192.200	..	..	90	95		228.630	80	85	..	..
	192.225	X25	X25	..	..		231.250	..	..	80	85
	192.280	X15	X15	..	..		231.550	95	100	..	..
	192.293	..	..	X25	X25		231.673				
	192.548						233.020	..	..	95	100
							233.400	70	75	..	..
							234.000				
							235.350	..	..	70	75
							235.600	115	120	..	..
							236.700	..	..	115	120

## Location of Speed signs (continued)

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	
DUNOGG	237.000	70	75	..	..	* On Loop	324.833	X40*	X40*	40*	40*	
	238.850	..	..	70	75		324.915	..	..	X40	X40	
	238.960	75	85	..	..		328.780	55	60	..	..	
	241.300	..	..	75	85		331.830	..	..	70	75	
	241.620	70	75	..	..		332.110	60	65	..	..	
	242.110	..	..	70	75		333.760	70	75	60	65	
	242.400	110	115	..	..	BUNDOOK	334.492					
	245.199						336.020	65	70	..	..	
	245.300	..	..	110	115		336.470	..	..	65	70	
	245.470	65	70	..	..		337.200	65	70	60	65	
	245.830	..	..	65	70		338.540	..	..	65	70	
	246.200	105	115	..	..		338.840	70	75	..	..	
	248.180	..	..	105	115		341.060	..	..	70	75	
	248.460	70	75	..	..		341.360	95	100	..	..	
	251.200	..	..	70	75	MT GEORGE	342.116					
	254.011						343.300	..	..	95	100	
	260.900	..	..	65	75		343.530	80	90	..	..	
STROUD ROAD	266.545						345.100	..	..	80	90	
	274.780	..	..	70	75		345.540	60	60	..	..	
	275.090	100	105	..	..		345.700	110	115	..	..	
	277.000	..	..	100	105		346.790	..	..	110	115	
	277.310	105	115	..	..		347.080	70	75	..	..	
WEISMANTELS	278.109						349.050	..	..	70	75	
	278.300	..	..	105	115		349.320	80	90	..	..	
	278.540	70	75	..	..		350.500	..	..	80	90	
	280.390	..	..	70	75		350.800	100	110	..	..	
	280.700	80	85	..	..		351.800	..	..	100	110	
	283.150	..	..	80	85		352.040	70	75	..	..	
	283.150	..	..	80	85		352.320	..	..	70	75	
	283.270	70	75	..	..		352.620	85	90	..	..	
	285.850	..	..	70	75		353.310	..	..	85	90	
	286.130	75	80	..	..		353.600	70	75	..	..	
	287.640	..	..	75	80		357.715	..	..	70	75	
	287.940	65	70	..	..		357.840	100	110	..	..	
	290.090	..	..	65	70		359.460	..	..	100	110	
	290.730	115	120	..	..		359.690	70	75	..	..	
CRAVEN	290.517					KILLAWARRA	360.273					
	291.760	X35	..	..	..		On Loop	361.755	X40*	X40*	40*	40*
Stratford Ball Loop Jun	291.843						361.840	..	..	X40	X40	
	292.060	..	..	115	120		364.380	..	..	70	75	
	292.360	80	80	..	..		365.900	..	..	65	70	
	293.110	..	..	80	80		366.190	60	65	..	..	
	293.400	115	125	..	..		367.055					
	295.960	..	..	115	125		367.820	..	..	60	65	
	296.240	70	75	..	..		368.120	70	75	..	..	
	297.250	..	..	70	75		370.990	..	..	70	75	
	297.500	75	80	..	..		371.290	80	85	..	..	
	299.700	..	..	75	80		372.900	50	50	..	..	
	300.000	70	75	..	..		373.040	80	85	..	..	
BERRICO	301.887						373.170	..	..	80	85	
	309.276						373.400	100	125	..	..	
GLOUCESTER	314.610	..	..	70	75		375.060	70	75	100	125	
	314.910	65	70	..	..		376.400	..	..	70	75	
	320.160	..	..	65	70		376.700	75	85	..	..	
	320.410	60	65	..	..		377.770	..	..	75	85	
	321.860	..	..	60	65							
BULLIAC	322.150	70	75	..	..							
	324.024											

***Location of Speed signs (continued)***

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
TAREE	378.000	65	70	..	..		433.765	..	..	70	75
	378.602						433.820	80	85	..	..
	378.770	55	65	..	..		435.450	..	..	80	85
	379.140	..	..	55	65		435.730	70	75	..	..
	379.400	70	75	..	..		436.330	..	..	70	75
	379.600	..	..	70	75		436.600	95	105	..	..
	379.900	75	85	..	..		437.900	..	..	95	105
	381.860	..	..	75	85		438.100	70	75	..	..
Lansdowne Eng Sdg	382.100	100	110	..	..		438.830	..	..	70	75
	384.890	..	..	100	110		439.130	90	100	..	..
	385.120	80	85	..	..		441.380	..	..	90	100
MELINGA	385.340	..	..	80	85		441.670	70	75	..	..
	385.640	70	75	..	..	KEREWONG	446.033				
	387.872						449.130	..	..	70	75
	388.760	..	..	70	75		449.430	95	105	..	..
	388.960	90	95	..	..		449.870	..	..	95	105
	390.030	..	..	90	95		450.000	115	140	..	..
	390.350	65	70	..	..		452.100	..	..	115	140
	391.610	..	..	65	70		452.350	115	120	..	..
MELINGA	391.860	100	110	..	..		454.350	100	100	115	120
	392.267					WAUCHOPE	455.005				
	393.970	..	..	100	110		455.250	115	120	100	100
	394.190	80	85	..	..		459.550	..	..	115	120
	395.110	..	..	80	85		459.850	80	85	..	..
COOPERNOOK	395.400	70	75	..	..		461.400	..	..	80	85
	402.800	..	..	..	75		461.700	70	75	..	..
	403.550	..	..	..	70		461.980	..	..	70	75
	403.555						462.290	105	115	..	..
	407.550	..	..	70	75		463.500	..	..	105	115
	407.850	80	85	..	..		463.850	90	100	..	..
	408.570	..	..	80	85		464.340	..	..	90	100
	408.870	105	110	..	..		465.180	85	95	..	..
	411.630	..	..	105	110		466.980	..	..	85	95
	411.930	85	90	..	..		467.250	70	75	..	..
	412.740	..	..	85	90		471.310	..	..	70	75
	413.040	70	75	..	..		471.650	80	90	..	..
	413.480	..	..	70	75		472.400	..	..	80	90
	413.780	90	95	..	..	TELEGRAPH POINT	472.470				
	414.730	..	..	90	95		472.700	115	125	..	..
	415.030	95	105	..	..		485.150	..	..	115	125
*On Loop	415.940	X25	X35	..	..		485.450	105	115	..	..
JOHNS RIVER	416.020	25*	35*	X25*	X35*	KUNDABUNG	487.197				
	417.801						487.920	90	95	105	115
	417.980	X25*	X35*	25*	35*		488.340	70	75	..	..
*On Loop	418.050	..	..	X25	X35		491.860	..	..	70	75
	419.150	..	..	95	105		492.080	75	85	..	..
	419.490	70	75	..	..		494.000	..	..	75	85
	421.310	..	..	70	75		494.170	70	75	..	..
	421.500	70	80	..	..		495.780	..	..	70	75
	423.260	..	..	70	75		496.000	80	85	..	..
	423.460	70	75	..	..		497.300	..	..	80	85
	424.690	..	..	70	75		497.620	70	75	..	..
	424.970	80	90	..	..		499.820	..	..	70	75
	427.140	..	..	80	90		500.120	80	90	..	..
KENDALL	427.420	70	75	..	..		502.010	..	..	80	90
	433.011						502.220	65	75	..	..

**Location of Speed signs (continued)**

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
	502.820	..	..	65	75	NAMBUPCCA HEADS	565.082				
	503.100	80	85	..	..		566.330	..	..	75	80
KEMPSEY	503.572						566.700	80	90	..	..
	503.600	..	..	80	85		568.160	..	..	80	90
* On Loop	505.000	80	90	..	..		568.400	70	75	..	..
	505.130	X40*	X40*	40*	40*		568.920	50	50	..	..
	505.210	..	..	X40	X40		569.060	70	75	..	..
	510.540	..	..	80	90		569.630	..	..	70	75
	510.900	115	160	..	..		569.870	80	85	..	..
	513.560	..	..	115	160		573.400	..	..	80	85
	513.800	115	125	..	..		573.650	70	75	..	..
TAMBAN	516.500	..	..	115	125		574.090	..	..	70	75
	516.800	80	90	..	..		574.600	100	100	..	..
	517.000	..	..	80	90		576.080	115	115	..	..
	517.300	70	75	..	..		579.100	90	95	115	115
	520.562					URUNGA	580.918				
	521.520	..	..	70	75		581.200	..	..	90	95
	521.850	75	85	..	..		581.460	70	75	..	..
	522.500	..	..	75	85		581.800	..	..	70	75
	523.000	105	115	..	..		582.050	80	85	..	..
	525.200	..	..	105	115		582.500	..	..	80	85
	525.470	80	85	..	..		582.800	100	105	..	..
	525.790	..	..	80	85		584.290	..	..	100	105
	526.070	70	75	..	..		584.660	85	95	..	..
	530.460	..	..	70	75		584.900	..	..	85	95
EUNGAI	530.800	75	85	..	..		585.260	115	120	..	..
	532.150	..	..	75	85		586.455				
	532.450	70	75	..	..		587.810	..	..	115	120
	534.400	..	..	70	75		588.100	70	75	..	..
	534.556						593.570	..	..	70	75
	534.600	60	65	..	..	BONVILLE	593.890	100	110	..	..
	535.050	..	..	60	65		596.494				
	535.300	70	75	..	..		598.000	..	..	100	110
	536.400	..	..	70	75		598.310	80	90	..	..
	536.700	105	115	..	..		598.880	..	..	80	90
	538.270	..	..	105	115		599.200	95	100	..	..
	538.510	..	..	70	75		600.668				
	538.510	..	..	70	75		600.810	..	..	95	100
	538.530	70	75	..	..		601.100	80	90	..	..
	538.690	..	..	60	60		602.100	..	..	80	90
MACKSVILLE	542.810	..	..	70	75		602.400	115	140	..	..
	543.050	95	100	..	..		606.790				
	545.170	..	..	95	100		606.800	..	..	115	140
	545.560	70	75	..	..		607.130	70	80	..	..
	552.418						607.550	100	100	70	80
	553.500	..	..	70	75	COFFS HARBOUR	607.814				
	553.800	80	85	..	..		610.650	..	..	100	100
	555.500	..	..	80	85		611.130	80	85	..	..
	555.790	70	75	..	..		611.330	..	..	80	85
	558.500	60	60	70	75		611.500	65	70	..	..
	558.950	..	..	60	60		619.500	..	..	65	70
	559.230	80	85	..	..		619.709				
	560.050	..	..	80	85		619.870	60	65	..	..
	560.330	70	75	..	..		620.260	..	..	60	65
	563.480	X40	X40	..	..						
	563.560	40*	40*	X40*	X40*						
	564.470	..	..	70	75						
	564.800	75	80	..	..						
* On Loop											

***Location of Speed signs (continued)***

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
CORAMBA	620.600	65	70	..	..	KYARRAN	705.580	60	65	..	..
	627.960						705.920	..	..	60	65
	630.740	..	..	65	70		706.200	90	95	..	..
	631.000	80	90	..	..		707.870	..	..	90	95
	632.080	..	..	80	90		708.050	70	75	..	..
	632.940	70	75	..	..		708.800	80	90	70	75
	639.000	..	..	70	75		712.750	..	..	80	90
	639.357	60	65	..	..		713.140	70	75	..	..
NANA GLEN	639.529						713.636				
	639.980	80	95	60	65		714.570	..	..	70	75
	641.990	70	75	80	95		714.750	80	85	..	..
	646.860	..	..	70	75		717.710	..	..	80	85
	646.960	85	90	..	..		719.900	..	..	70	75
	648.100	..	..	85	90		720.180	80	85	..	..
	648.390	70	75	..	..		721.070	..	..	80	85
	651.240	..	..	70	75		722.390	90	95	..	..
GLENREAGH	651.540	115	120	..	..		723.140	..	..	90	95
	651.590	..	..	70*	75*		723.420	60	65	..	..
	651.700	..	..	40*	40*		723.820	..	..	60	65
	651.881						724.100	80	85	..	..
	653.400	..	..	115	120		724.750	..	..	80	85
KUNGALA	654.000	80	85	..	..		725.290	90	95	..	..
	662.470	..	..	80	85		726.860	..	..	90	95
	662.770	115	125	..	..		727.020	80	85	..	..
	664.460						728.350	..	..	80	85
	665.520	..	..	115	125		728.650	70	75	..	..
	665.910	80	85	..	..		732.990	..	..	70	75
	668.180	..	..	80	85		733.290	115	140	..	..
	668.560	115	115	..	..		735.970	..	..	115	140
	670.960	..	..	115	115		736.250	100	110	..	..
	671.320	80	85	..	..		738.660				
	674.130	..	..	80	85		738.920	..	..	100	110
	674.500	115	125	..	..		739.220	90	100	..	..
	679.680	..	..	115	125		739.560	..	..	90	100
BRAUNSTONE	680.250	80	85	..	..		739.900	100	105	..	..
	682.500	..	..	80	85		742.866				
	683.269						743.200	..	..	100	105
	683.270	70	75	70	70		743.460	70	75	..	..
GRAFTON CITY	683.770	80	85	70	75		744.000	80	85	70	75
	687.800	..	..	80	85		744.630	..	..	80	85
	688.160	70	75	..	..		744.950	100	105	..	..
	694.236	..	..	70	75		745.900	..	..	100	105
	694.617	50	50	..	..		746.270	70	75	..	..
	695.420	..	..	50	50		746.820	..	..	70	75
	695.748						747.250	80	85	..	..
	696.140	60	65	50	50		747.700	85	90	..	..
GRAFTON	696.500	75	80	..	..		755.200	..	..	85	90
	698.848						755.600	80	85	..	..
	699.320	..	..	75	80		756.505				
	699.580	115	130	..	..		756.900	60	60	..	..
	704.000	..	..	115	130		757.150	..	..	80	85
	704.450	80	85	..	..		757.220	70	75	..	..
	705.300	..	..	80	85		757.310	..	..	60	60
							757.820	60	65	..	..
							758.460	100	105	60	65
							758.930	..	..	100	105

\*When loop is occupied  
\*\*When loop is occupied

GLENREAGH

**Location of Speed signs (continued)**

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	
	759.110	115	120	..	..		834.550	..	..	60	65	
	761.200	..	..	115	120		834.770	115	125	..	..	
	761.780	80	85	..	..		837.110					
	763.090	..	..	80	85		838.970	..	..	115	125	
	763.330	70	75	..	..		839.330	80	85	..	..	
	764.040	..	..	70	75		839.660	..	..	80	85	
	764.160	115	125	..	..		839.940	70	80	..	..	
	769.270	..	..	115	125		840.520	80	85	70	80	
	769.560	80	90	..	..		841.530	..	..	80	85	
	772.300	..	..	80	90		841.850	115	125	..	..	
	772.600	115	130	..	..		846.150	..	..	115	125	
	774.740	..	..	115	130		846.350	70	75	..	..	
	775.000	95	100	..	..		849.500	90	95	70	75	
	776.000	..	..	95	100		850.805	..	..	90	95	
RAPPVILLE	776.226						850.825	70	75	..	..	
	776.396	..	..	90	100		859.390	..	..	70	75	
	776.700	100	105	..	..		859.710	60	65	..	..	
	781.540	..	..	100	105		863.440					
	781.840	80	90	..	..		NSW/QLD BORDER	875.988				
	782.220	..	..	80	90		885.060	..	..	60	65	
	782.520	115	130	..	..		885.280	65	70	..	..	
	786.120	..	..	115	130		886.230	..	..	65	70	
	786.410	80	90	..	..		886.550	75	80	..	..	
	787.170	..	..	80	90		887.655	..	..	75	80	
	787.470	115	125	..	..		GLENAPP	887.705				
	793.600	115	120	115	125		887.760	65	70	..	..	
LEEVILLE	793.666						888.950	70	75	65	70	
	794.900	..	..	115	120		891.660	..	..	70	75	
	795.200	110	115	..	..		891.880	85	90	..	..	
	795.980	..	..	110	115		895.160	..	..	85	90	
	796.240	80	85	..	..		895.400	65	70	..	..	
	800.650	..	..	80	85		900.990	100	105	65	70	
	800.800	100	105	..	..		901.800	..	..	100	105	
CASINO	804.090	75	80	100	105		902.200	115	125	..	..	
	805.077						904.250	..	..	115	125	
	806.090	..	..	75	80		904.650	100	110	..	..	
	807.140	70	75	..	..		912.980	..	..	100	110	
	808.170	..	..	70	75		913.380	115	120	..	..	
	808.400	90	95	..	..		919.030	100	110	115	120	
Namona Ballast Siding	809.993						919.360	..	..	100	110	
	810.200	..	..	90	95		919.760	115	125	..	..	
	810.410	85	90	..	..		922.600					
	812.200	..	..	85	90		922.820	100	110	115	125	
	812.540	80	85	..	..		925.600	90	100	100	110	
	814.000	..	..	80	85		BROMELTON	931.714				
	814.370	75	80	..	..		929.800	115	125	90	100	
	816.240	..	..	75	80		934.850	100	110	115	125	
KYOGLE	816.480	115	125	..	..		940.260	..	..	100	110	
	824.040	95	110	115	125		940.540	90	100	..	..	
	824.400	70	80	95	110		941.000	..	..	90	100	
	824.990	..	..	70	80		941.270	100	110	..	..	
	825.310	115	125	..	..		945.830	115	125	100	110	
	827.830	..	..	115	125		952.210	..	..	115	125	
	828.050	70	75	..	..		952.450	90	100	..	..	
	828.890	..	..	70	75		953.880	115	125	90	100	
	829.130	60	65	..	..		955.552					
	833.798											

 Location of Speed signs (continued)

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
	958.670	95	100	115	125						
	962.150	..	..	95	100						
	962.390	90	95	..	..						
	963.450	..	..	90	95						
	963.820	100	105	..	..						
	967.000	..	..	100	105						
	967.340	90	95	..	..						
	971.640	100	105	..	..						
	972.160	..	..	90	95						
ACACIA RIDGE	974.693										
	Refer to Queensland for speed signs between Acacia Ridge and Roma Street										
ROMA ST	986.737										

 Station Data

Station	Kilo-metrage	Signal box Status	Hours of signal box	Facilities
Broadmeadow	162.935	C	Controlled from Broadmeadow SCC	
Woodville Junction Signal Box	163.690	A	Always	
Islington Junction Signal Box	164.647	A	Always	
Waratah	165.964			P
Hanbury Junction Signal Box	167.934	A	Always	
Warabrook	168.685			P
Sandgate	170.509			P
Hexham	175.530			P
Tarro	178.178			P
Beresfield	179.806			P
Thornton	182.194	C	Controlled from Maitland	P
Metford	185.117			P
Victoria Street	187.919			P
East Maitland	188.831			P
High Street	191.409			P
Maitland	192.548	A	Always	P
Telarah	194.739	C	Controlled from Broadmeadow SCC	P
Mindaribba	203.462	C	Controlled from Broadmeadow SCC	P
Paterson	213.224	C	Controlled from Broadmeadow SCC	P
Martins Creek	218.532	C	Controlled from Broadmeadow SCC	P
Kilbride	223.472	C	Controlled from Broadmeadow SCC	
Hilldale	226.372			P
Wallarobba	231.673			P
Wallarobba Loop	234.000	C	Controlled from Broadmeadow SCC	
Wiragulla	237.972			P
Dungog	245.199	C	Controlled from Broadmeadow SCC	P
Monkera	254.011	C	Controlled from Broadmeadow SCC	
Stroud Road	266.545	C	Controlled from Broadmeadow SCC	
Weismantels	278.109		Follow on location only	
Craven	290.517	C	Controlled from Broadmeadow SCC	
Stratford Balloon Loop Junction	291.843	C	Controlled from Broadmeadow SCC	
Berrico	301.887	C	Controlled from Broadmeadow SCC	
Gloucester	309.276	C	Controlled from Broadmeadow SCC	P

**Station Data (continued)**

Station	Kilo-metres	Signal box Status	Hours of signal box	Facilities
Bulliac	324.024	C	Controlled from Broadmeadow SCC	
Bundook	334.492	C	Controlled from Broadmeadow SCC	
Mt George	342.116	C	Controlled from Broadmeadow SCC	
Killawarra	360.273	C	Controlled from Broadmeadow SCC	
Wingham	367.055	C	Controlled from Broadmeadow SCC	P
Taree	378.602	C	Controlled from Broadmeadow SCC	P
Lansdowne				
Engineering Siding	387.872		Release from Broadmeadow SCC	
Melinga	392.267	C	Controlled from Broadmeadow SCC	
Coopersnook	403.555		Follow on location only	
Johns River	417.801	C	Controlled from Broadmeadow SCC	
Kendall	433.011	C	Controlled from Broadmeadow SCC	
Kerewong	446.033	C	Controlled from Broadmeadow SCC	
Wauchope	455.005	C	Controlled from Broadmeadow SCC	P
Telegraph Point	472.470	C	Controlled from Broadmeadow SCC	
Kundabung	487.197	C	Controlled from Broadmeadow SCC	
Kempsey	503.572	C	Controlled from Broadmeadow SCC	P
Tamban	520.562	C	Controlled from Broadmeadow SCC	
Eungai	534.556	C	Controlled from Broadmeadow SCC	
Macksville	552.418	C	Controlled from Broadmeadow SCC	P
Nambucca Heads	565.082	C	Controlled from Broadmeadow SCC	P
Urunga	580.918			P
Raleigh	586.455	C	Controlled from Broadmeadow SCC	
Bonville	596.494	C	Controlled from Broadmeadow SCC	
Sawtell	600.668			P
Boambee Beach	606.790	C	Controlled from Broadmeadow SCC	
Coffs Harbour	607.814			P
Landrigans	619.709	C	Controlled from Broadmeadow SCC	
Coramba	627.960	C	Controlled from Broadmeadow SCC	
Nana Glen	639.529	C	Controlled from Broadmeadow SCC	
Glenreagh	651.881	C	Controlled from Broadmeadow SCC	
Kungala	664.460	C	Controlled from Broadmeadow SCC	
Braunstone	683.269	C	Controlled from Broadmeadow SCC	
Grafton City	695.748	C	Controlled from Broadmeadow SCC	P
Grafton	698.848	C	Controlled from Broadmeadow SCC	
Rocla Sdg				S
Kookhan	706.750		Release from Broadmeadow SCC	
Kyarran	713.636	C	Controlled from Broadmeadow SCC	
Lawrence Road	738.660	C	Controlled from Broadmeadow SCC	
Banyabba	742.866	C	Controlled from Broadmeadow SCC	
Camira Creek	756.505	C	Controlled from Broadmeadow SCC	
Rappville	776.226	C	Controlled from Broadmeadow SCC	
Leeville	793.666	C	Controlled from Broadmeadow SCC	
Casino	805.077	C	Controlled from Broadmeadow SCC	ISI, P ISI, S
Namona Ballast				
Siding	809.993			
Kyogle	833.798			P
Kyogle Loop	837.110	U	Unattended	
Loadstone	863.440	U	Unattended	
NSW/QLD Border	875.988			
Glenapp	887.705	U	Unattended	
Qld Blue Metal Sdg	922.600			ISI, S
Bromelton	931.714	U	Unattended	
Greenbank	955.552	U	Unattended	
Acacia Ridge	973.693		Queensland control	
Clapham	978.743		Queensland control	
Yeerongpilly	979.787		Queensland control	
Brisbane Transit Centre	986.737		Queensland control	P

 **Out-of-gauge steel trains**

Out-of-gauge steel trains may operate between Broadmeadow Yards and Clapham subject to the conditions shown for Out-of-gauge steel trains contained in the **General Instruction Pages** section.

1. To avoid excessive delays between Telarah and Clapham (Qld) only a train **NOT** conveying passengers, standing at or proceeding through a block station or interlocking on an adjacent track, may pass or be passed by the special train conveying the Out-of-gauge steel at a speed not exceeding **10 km/hr**.
2. In exception to the conditions shown in clause 1 between **Telarah and Clapham (Qld)**, the wide Out-of-gauge steel train may pass or be passed by a train conveying passengers or a freight train at a speed not exceeding **25 km/hr** at the locations shown below.

**Broadmeadow to Maitland**

1. Between Broadmeadow and crossover 39W Down Main Woodville Junction, the Out-of-gauge steel train on the Down Main and another train on the Up Relief Road may traverse simultaneously.
2. Between Islington Junction Signal M102/7 and C102/7 and the Down Main Second Home Signal Maitland, trains may traverse the Up and Down Coal Roads whilst the Out-of-gauge train is traversing the Down Main line.
3. Alternatively the Out-of-gauge steel train traversing the Down Coal Road may be passed by trains traversing the Up and Down Main line.

**Telarah to Clapham**

<b>Telarah</b>	Loop line between Signal No 276 and No 299
<b>Dungog</b>	Island Platform
<b>Stroud Road</b>	Loop line
<b>Gloucester</b>	Loop line
<b>Killawarra</b>	Loop line
<b>Taree</b>	Loop line
<b>Kendall</b>	Loop line
<b>Wauchope</b>	Loop line
<b>Telegraph Point</b>	Loop line
<b>Kempsey</b>	Loop line
<b>Eungai</b>	Loop line
<b>Macksville</b>	Loop line
<b>Nambucca Heads</b>	Loop line
<b>Boambee Beach</b>	Loop line
<b>Glenreagh</b>	Loop line
<b>Kungala</b>	Loop line
<b>Grafton City</b>	Loop line
<b>Grafton</b>	No. 1 and No. 2 Down Reception Siding
<b>Lawrence Road</b>	Loop line
<b>Camira Creek</b>	Loop line
<b>Casino</b>	Loop line
<b>Kyogle Loop</b>	Loop line
<b>Loadstone</b>	Loop line
<b>Glenapp</b>	Loop line
<b>Bromelton</b>	Loop line

**Advisory Speedsigns**

Special advisory Speedsigns have been positioned approaching signals at the locations shown below. Drivers of trains (except XPT's / EMU's) are required to regulate the speed of their train at such locations to ensure that before reaching the signal indicated the speed is not in excess of that figure shown on the special advisory board. If at any point approaching the signal it is seen to be exhibiting a full clear indication, normal track speed for the train concerned may be resumed.

<b>Location</b>	<b>Signal no</b>	<b>Speed shown on board</b>
172.580	Down Automatic, Hexham (M107.3)	90
172.580	No 56 Down Accept, Hexham (C107.3)	90
175.246	No 12 Up Starting, Hexham (M108.6)	80
175.246	No 11 3rd Up Home, Hexham (C108.6)	80
176.800	Down Automatic, Tarro (M109.9)	80
176.800	Down Automatic, Tarro (C109.9)	80
179.665	Down Automatic (M111.9)	85
179.665	Down Automatic (C111.9)	85
182.080	Up Automatic (M113.0)	90
182.080	Up Starting (C113.0)	90
186.100	Up Automatic (M115.4)	85
186.100	Up Automatic (C115.4)	85
188.636	Up Automatic (M117.0)	75
188.636	Up Automatic (C117.0)	75
190.650	Up Automatic (C118.4)	80
191.530	Up Automatic (C118.8)	80
202.005	Down Distant Mindaribba	65
307.262	Down Distant Gloucester	55
404.953	Up Distant Coopernook	55
506.053	Up Distant Kempsey	70
554.558	Up Distant Macksville	65
681.614	Down Distant Braunstone	70

# Newcastle Regional Area

## section 1C

### Maximum Speed of Locomotives and Rolling Stock

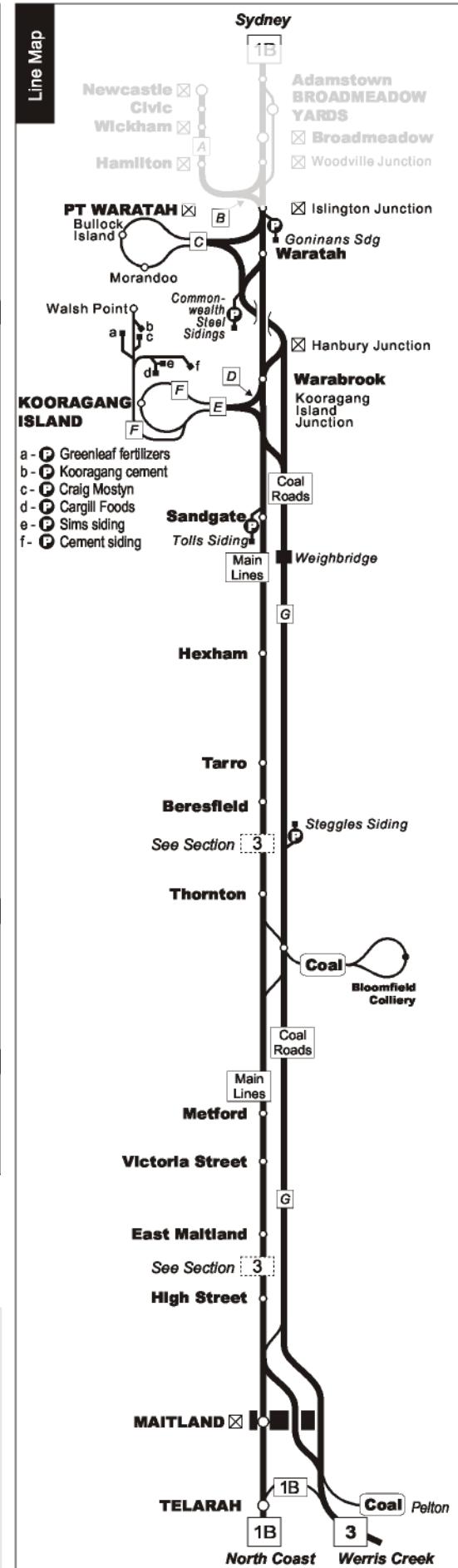
	SECTIONS							
	Woodville Jun - Newcastle	Jun - Hamilton	Islington Junction - Port Waratah	Koragang Island Jun + North River Bridge	Hunter & South Forks	170.500km - 176.25km	Down & Up Coal Road	
Class of Track	1	1	2	2	1C	1C	1XC	Notes
Line Map reference	A	B	C	D	E	F	G	
<b>Locomotives</b>								
Multiple Locos	4	4	4	4	4	4		
S1	20(b)	20	15	25	60	25	80	
S2	20(b)	20	15	25	60	25	100	
S3	20(b)	20	15	25	60	25	115	
S4	20(b)	20	15	25	60	25	115	
S5	80	40	15	25	60	25	115	
S6	80	40	15	25	60	25	115	
S7	80	40	15	25	60	25	90	
S8	80	40	15	25	60	25	115	
S9	80	40	15	25	80	25	115	
S10	80	40	15	25	60	25	115	
S11	80	40	15	25	60	25	100	
S12	80	40	15	25	60	25	100	
S13	80	40	15	25	80	25	100	
<b>Freight</b>								
Class A	80	40	15	25	80	25	115	
Class B	80	40	15	25	80	25	100	
Class C	80	40	15	25	80	25	80	
Class D	65	40	15	25	60	25	65	
Class E	80	40	15	25	60	25	80	
Class F	65	40	15	25	65	25	80	
Class G	N/A	N/A	15	25	40	25	60	
<b>Passenger</b>								
XPT	80	40	15	25	80	25	160	
Xplorer	80	40	15	25	80	25	145	
Diesel Train	80	40	15	25	80	25	115	
Loco Hauled	80	40	15	25	80	25	115	
<b>Accident Cranes</b>								
70 tonne	60	40	15	25	--	25	60	
110 tonne	80	40	15	25	80	25	115	
120 tonne	50	40	15	25	--	25	50	
Notes			(a)	(a)				

#### NOTES:

- (a) C class 100 tonne coal hoppers permitted on this line.  
 (b) Woodville Junction to Hamilton Junction ONLY

<b>Safeworking System</b>	Broadmeadow to Woodville Junction			Down and Up Main - Rail Vehicle Detection		
	Woodville Junction to Hamilton			Down and Up Relief - Rail Vehicle Detection		
	Hamilton to Newcastle			Rail Vehicle Detection		
	Hamilton to Islington Junction			Rail Vehicle Detection		
	Islington Junction to Hanbury Junction			Rail Vehicle Detection		
	Hanbury Junction to Maitland			Rail Vehicle Detection		
	Islington Junction to Port Waratah			Rail Vehicle Detection		
	Koragang Isl Jun to Koragang Island			Rail Vehicle Detection		
	Koragang Island to Walsh Point			Yard working		

Line Map



### Location of Speedsigns

Broadmeadow to Maitland (via Main) See SECTION 1B

Broadmeadow to Newcastle

LOCATION	KILO-	DOWN		UP	
	METRAGE	NORM	XPT	NORM	XPT
BROADMEADOW	162.395				
	163.600	..	..	95	100
	163.670	X30	X30	X30	X30
WOODVILLE JUNCTION	163.685				
WOODVILLE JUNCTION SIGNAL BOX	163.690				
	163.910	40	..	..	..
	164.310	X25	..	..	..
	164.330	..	..	40	..
	164.410	80	..	X25	..

LOCATION	KILO-	DOWN		UP	
	METRAGE	NORM	XPT	NORM	XPT
HAMILTON	164.633				
WICKHAM	165.934				
CIVIC	167.021				
	167.670	..	..	80	..
	167.750	30	..	..	..
NEWCASTLE	168.103				

### Waratah – Maitland Coal Roads

LOCATION	KILO-	DOWN		UP	
	METRAGE	NORM	XPT	NORM	XPT
WARATAH	164.000	40	45	..	..
	165.964				
	166.080	X25	X25	..	..
	166.290	..	..	X25	X25
HANBURY JUNCTION	167.170	40	45	..	..
	167.658				
	167.670	..	..	40	45
	167.755	100	110	..	..
	168.185	..	..	110	110
	168.575	115	135	..	..
	170.000	..	..	115	135
	170.340	100	110	..	..
	170.800	..	..	100	110
	172.000	..	..	20	110
	172.300	40	40	..	..
	172.400	..	..	20	20
	172.630	..	..	115	120
	172.800	40	160	..	..
	173.900	115	160	..	..
	174.200	..	..	115	160
HEXHAM	175.530				
* For Up weighbridge	176.000	..	..	*80	160
	176.395	..	..	115	160
	177.180	115	140	..	..
	177.890	..	..	115	140

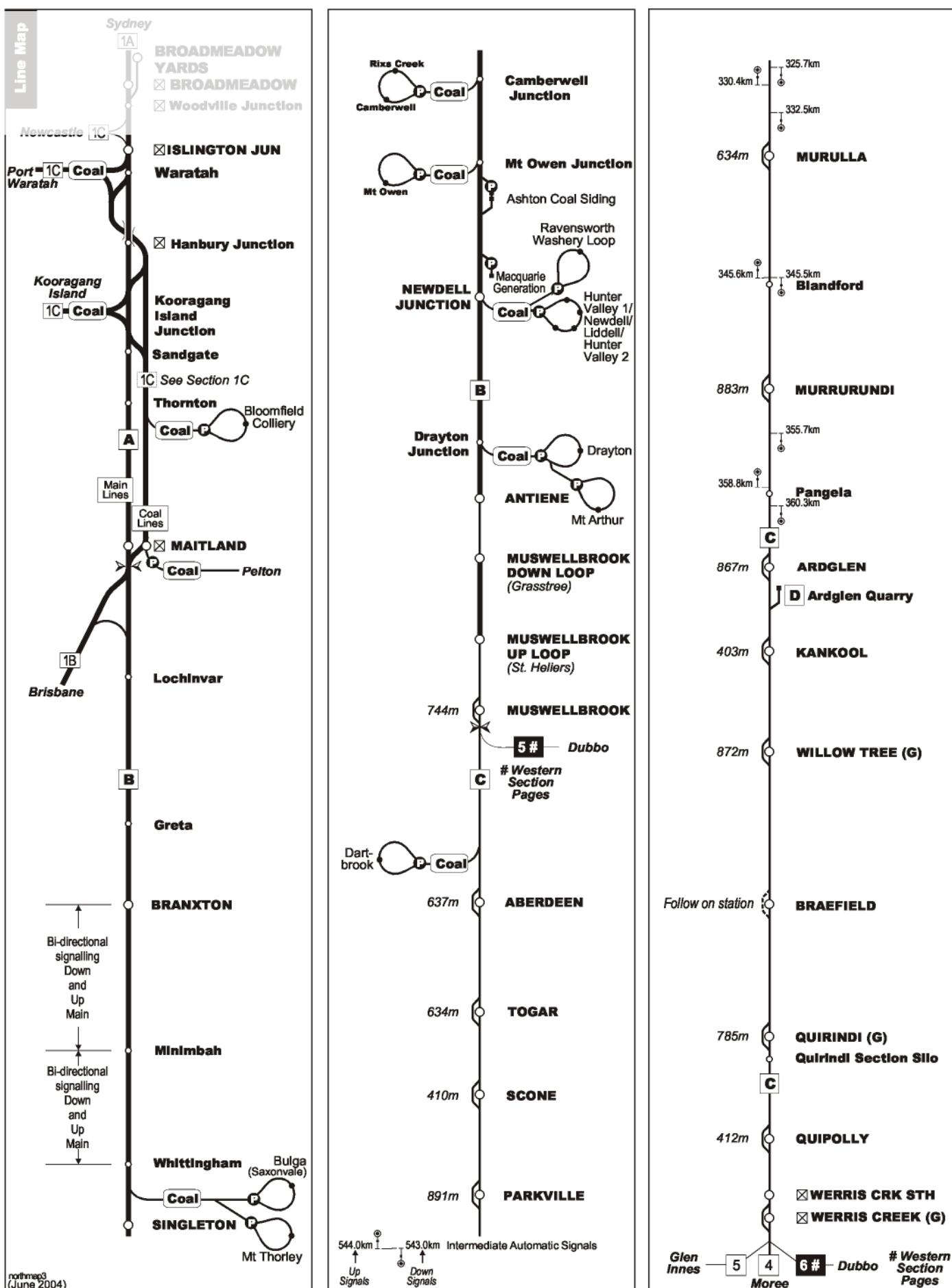
LOCATION	KILO-	DOWN		UP	
	METRAGE	NORM	XPT	NORM	XPT
THORNTON	178.115	90	95	..	..
	178.390	..	..	90	95
	178.520	115	140	..	..
	181.600	..	..	115	140
	181.940	65	70	..	..
	182.194				
	182.500	..	..	65	70
	182.740	115	160	..	..
	185.370	80	80	..	..
	186.200	..	..	115	160
	186.640	115	125	80	80
	187.460	..	..	100	115
	187.760	95	100	..	..
	188.380	..	..	85	95
	188.700	110	115	..	..
	190.600	..	..	90	100
	191.800	50	55	110	115
	192.050	X25	X25	..	..
MAITLAND	192.548				
	192.700	..	..	50	55
	192.740	25	..	25	..
	192.800	X25	..	..	..
	193.320	25	..	..	..
	193.400	..	..	50	..

### Station Data

Station	Kilo-metrage	Signal box Status	Hours of signal box	Facilities
See SECTION 1B for details Broadmeadow to Maitland				
Hamilton	164.633	A	Always	P
Wickham	165.934	A	Always	P
Civic	167.021			P
Newcastle	168.103	A	Always	P

# Broadmeadow - Werris Creek

section 3



# Broadmeadow - Werris Creek

## section 3

### Maximum Speed of Locomotives and Rolling Stock

(Refer to SECTION 1C for COAL ROADS)								(Refer to SECTION 1C for COAL ROADS)								
SECTIONS		Broadmeadow - Maitland - Waratah - UP MAIN - UP MAIN - UP MAIN - Muswellbrook - Werris Creek - Argdien Quarry Siding				Notes		SECTIONS		Broadmeadow - Maitland - Waratah - UP MAIN - UP MAIN - UP MAIN - Muswellbrook - Werris Creek - Argdien Quarry Siding		Notes				
Class of Track	1	1XC	1	1XC	1	S		Class of Track	1	1XC	1	1XC	1	S		
Line Map reference	A	B	C	D	E	F		Line Map reference	A	B	C	D	E	F		
<b>Locomotives</b>																
Multiple Locos	4	4	4	4	4	4		Class A	115	115	115	115	115	20		
S1	80	80	80	80	60	N/A	(c)	Class B	100	100	100	100	100	20		
S2	100	100	100	100	100	N/A		Class C	80	80	80	80	80	20		
S3	115	115	115	115	115	N/A		Class D	65	65	65	65	65	20		
S4	115	115	115	115	115	N/A		Class E	80	80	80	80	80	20		
S5	115	115	115	115	115	20		Class F	65	80	65	80	65	N/A		
S6	115	115	115	115	115	20		Class G	N/A	60	N/A	60	40	N/A	(a,b)	
S7	90	90	90	90	90	20										
S8	115	115	115	115	115	20										
S9	115	115	115	115	115	20										
S10	115	115	115	115	115	20			XPT	160	160	160	160	160	N/A	
S11	80	80	80	80	80	20			Xplorer	145	145	145	145	145	N/A	
S12	100	100	100	100	100	20			Diesel Train	115	115	115	115	115	N/A	
S13	100	100	100	100	100	20			Loco Hauled	115	115	115	115	115	N/A	
<b>Passenger</b>																
<b>Accident Cranes</b>																
									70 tonne	60	60	60	60	60		
									110 tonne	115	115	115	115	115		
									120 tonne	50	50	50	50	50		
									Notes							

**NOTES:**

- (a) Under **SECTION E - MUSWELLBROOK - WERRIS CREEK**, G Class vehicles loaded to 120 tonnes, are only permitted to run between Dartbrook Coal loader and Muswellbrook.
- (b) Up Main line Maitland to Hanbury Junction **ONLY**.)
- (c) Under **SECTION E** 90 Class locomotives are only permitted to run between Muswellbrook and Dartbrook Coal Loader.

**Safeworking System**

Broadmeadow to Branxton  
 Branxton to Minimbah  
 Minimbah to Whittingham  
 Whittingham to Werris Creek South  
 Werris Creek South to Werris Creek

Rail Vehicle Detection  
 Rail Vehicle Detection (Bi - directional)  
 Rail Vehicle Detection (Bi - directional)  
 Rail Vehicle Detection  
 Staff and Ticket

DOWN		LOCO-MOTIVE CLASS = L	LOCOMOTIVES					TRAIN DATA		NOTES
LOADS & CONDITIONS			SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES	
	SECTIONS	LOADS TONNES								
1	BRDMEOADOW/MORANDOO-WERRIS CREEK	L2	1300	2600	3900	5200	--	AB	B1	
2	BRDMEOADOW/MORANDOO-WERRIS CREEK	L3/L4	970	1940	2910	3880	--	AB	B1	
3										
4	BRDMEOADOW/MORANDOO-MUSWELLBROOK	L2	1605	3210	4815	6420	--	ABC	C1	
5										
6	BRDMEOADOW/MORANDOO-WERRIS CREEK	L2	1300	2600	3900	5200	--	ABC	C2	
7										
8	BRDMEOADOW/MORANDOO-WERRIS CREEK	L3	1200	2400	3600	4800	--	ABC / *D	C3 / *D1	
9	BRDMEOADOW/MORANDOO-WERRIS CREEK	L4	1131	2262	3393	4524	--	ABC / *D	C3 / *D1	
10	BRDMEOADOW/MORANDOO-WERRIS CREEK	L5	1056	2112	3168	4224	--	ABC / *D	C3 / *D1	
11	BRDMEOADOW/MORANDOO-WERRIS CREEK	L6	926	1852	2778	3704	--	ABC / *D	C3 / *D1	
12	BRDMEOADOW/MORANDOO-WERRIS CREEK	L7	909	1818	2727	3636	--	ABC / *D	C3 / *D1	
13	BRDMEOADOW/MORANDOO-WERRIS CREEK	L8	822	1644	2466	3288	--	ABC / *D	C3 / *D1	
14	BRDMEOADOW/MORANDOO-WERRIS CREEK	L9	750	1500	2250	3000	--	ABC / *D	C3 / *D1	
15	BRDMEOADOW/MORANDOO-WERRIS CREEK	L10	725	1450	2175	2900	--	ABC / *D	C3 / *D1	
16	BRDMEOADOW/MORANDOO-WERRIS CREEK	L11	640	1280	1920	2560	--	ABC / *D	C3 / *D1	
17	BRDMEOADOW/MORANDOO-WERRIS CREEK	L12	615	1230	1845	2460	--	ABC / *D	C3 / *D1	
18	BRDMEOADOW/MORANDOO-WERRIS CREEK	L13	310	620	930	1240	--	ABC / *D	C3 / *D1	
19										
20	BRDMEOADOW/MORANDOO-WERRIS CREEK	L13	410	820	1230	1640	--	ABCD	D2	

DOWN	SECTIONAL RUNNING TIMES							FULL SECTIONAL LOADS								LOCOMOTIVE CATEGORIES = L								GRADE
	B1	C1	C2	C3	D1	D2	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14			
BROADMEADOW	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
WOODVILLE JCT.	2	2	2	2	2	2	2	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
ISLINGTON JCT..	2	2	2	2	2	2	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
PT WARATAH								8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
SIG PW81/81								4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
WARATAH								4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
XYZ X/OVER	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
WARATAH	2	2	2	2	2	2	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
HANBURY JCT	2	2	2	2	2	2	1	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820			1:80		
WARABROOK X/OVER	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			DG		
K'GANG STH JCT	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			DG		
K'GANG NTH JCT	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
HEXHAM	4	5	5	5	6	6	4	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
THORNTON	4	5	5	5	6	6	4	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820			1:80		
MAITLAND	7	9	8	9	10	11	7	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820			1:80		
LOCHINVAR	7	9	9	9	11	13	6	2607	2405	2274	2136	1885	1837	1689	1539	1484	1325	1272	887			1:88		
GRETA	7	8	7	8	9	11	5	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984			1:100		
BRANXTON	3	4	4	4	5	5	3	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
MINIMBAH	8	9	9	9	11	13	7	2289	2111	1995	1872	1651	1610	1478	1346	1299	1158	1112	776			1:75		
WHITTINGHAM	5	7	7	7	8	8	5	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
SINGLETON	3	4	4	4	5	5	3	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
CAMBERWELL JCT.	9	11	9	11	12	15	6	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693			1:67		
MT.OWEN JCT.	5	6	6	6	7	7	4	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
NEWDELL JCT.	6	7	7	7	8	8	5	2536	2339	2211	2077	1833	1786	1642	1495	1442	1288	1236	862			1:85		
DRAYTON JCT.	9	11	9	11	12	15	7	2080	1894	1789	1678	1479	1444	1322	1204	1163	1035	994	693			1:67		
ANTIENE	1	2	2	2	2	2	1	3855	3562	3369	3171	2803	2726	2520	2295	2210	1981	1900	1326			1:150		
GRASSTREE	8	10	8	10	11	13	6	1892	1743	1646	1543	1359	1328	1214	1105	1068	949	912	636			1:59		
ST HELIERS	3	3	3	3	3	3	2	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			DG		
MUSWELLBROOK	6	6	6	6	6	6	6	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			DG		
DARTBROOK JCT	9	9	9	10	10	7		1752	1613	1523	1427	1256	1228	1120	1020	986	875	841	587			1:57		
ABERDEEN	3	4	4	5	5	3		2161	1992	1882	1766	1557	1519	1392	1268	1224	1090	1047	731			1:70		
TOGAR	4	5	5	6	7	4		2161	1992	1882	1766	1557	1519	1392	1268	1224	1090	1047	731			1:70		
SCONE	6	7	7	8	9	6		3855	3562	3369	3171	2803	2726	2520	2295	2210	1981	1900	1326			1:150		
PARKVILLE	10	10	11	11	12	7		3032	2799	2647	2489	2198	2140	1972	1796	1731	1549	1486	1037			1:107		
MURULLA	21	21	26	26	33	13		1607	1479	1396	1307	1149	1125	1024	933	902	799	768	536			1:50		
MURRURUNDI	11	12	13	15	17	8		2289	2111	1995	1872	1651	1610	1478	1346	1299	1158	1112	776			1:75		
ARDGLEN	19	19	24	24	30	12		1304	1200	1131	1056	926	898	822	750	725	640	615	410			1:40		
KANKOOL	6	6	6	6	6	6		4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			DG		
WILLOW TREE	7	7	7	8	8	6		4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			DG		
#BRAEFIELD	6	7	7	9	9	6		4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			Level		
QUIRINDI	6	6	7	7	8	5		1892	1743	1646	1543	1359	1328	1214	1105	1068	949	912	636			1:59		
QUIPOLLY	7	8	8	10	11	6		1892	1743	1646	1543	1359	1328	1214	1105	1068	949	912	636			1:59		
WERRIS CRK STH	7a	7a	8a	9a	10a	6a		1752	1613	1523	1427	1256	1228	1120	1020	986	875	841	587			1:56		
WERRIS CREEK	2	2	2	2	2	2		4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			DG		

# Follow

UP	LOADS & CONDITIONS SECTIONS	LOCO-MOTIVE CLASS = L	LOCOMOTIVES					TRAIN DATA		NOTES
			SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES	
LOADS TONNES										
1	WERRIS CREEK - BRDMEDOW/MORANDOO	L2	1300	2600	3900	5200	--	AB	B1	
2	WERRIS CREEK - BRDMEDOW/MORANDOO	L3/L4	970	1940	2910	3880	--	AB	B1	
3										
4	WERRIS CREEK - BRDMEDOW/MORANDOO	L2	1300	2600	3900	5200	--	ABCE	C1	
5										
6	WERRIS CREEK - BRDMEDOW/MORANDOO	L3	1200	2400	3600	4800	--	ABCE/ *D	C2/ *D1	
7	WERRIS CREEK - BRDMEDOW/MORANDOO	L4	1130	2260	3390	4520	--	ABCE/ *D	C2/ *D1	
8	WERRIS CREEK - BRDMEDOW/MORANDOO	L5	1056	2112	3168	4224	--	ABCE/ *D	C2/ *D1	
9	WERRIS CREEK - BRDMEDOW/MORANDOO	L6	926	1852	2778	3704	--	ABCE/ *D	C2/ *D1	
10	WERRIS CREEK - BRDMEDOW/MORANDOO	L7	909	1818	2727	3636	--	ABCE/ *D	C2/ *D1	
11	WERRIS CREEK - BRDMEDOW/MORANDOO	L8	822	1644	2466	3288	--	ABCE/ *D	C2/ *D1	
12	WERRIS CREEK - BRDMEDOW/MORANDOO	L9	750	1500	2250	3000	--	ABCE/ *D	C2/ *D1	
13	WERRIS CREEK - BRDMEDOW/MORANDOO	L10	725	1450	2175	2900	--	ABCE/ *D	C2/ *D1	
14	WERRIS CREEK - BRDMEDOW/MORANDOO	L11	640	1280	1920	2560	--	ABCE/ *D	C2/ *D1	
15	WERRIS CREEK - BRDMEDOW/MORANDOO	L12	615	1230	1845	2460	--	ABCE/ *D	C2/ *D1	
16	WERRIS CREEK - BRDMEDOW/MORANDOO	L13	310	620	930	1240	--	ABCE/ *D	C2/ *D1	
17										
18	MUSWELLBROOK - BRDMEDOW/MORANDOO	L2	2160	4320	6480	--	--	ABC	C3	
19	WERRIS CREEK - BRDMEDOW/MORANDOO	L13	410	820	1230	1640	--	ABCE/ *D	C3/ *D2	
20										
21	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L3	2111	4222	6333	--	--	ABCE/ *D	C4/ *D3	1
22	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L4	1995	3990	5985	--	--	ABCE/ *D	C4/ *D3	1
23	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L5	1872	3744	5616	--	--	ABCE/ *D	C4/ *D3	1
24	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L6	1651	3302	4953	--	--	ABCE/ *D	C4/ *D3	1
25	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L7	1610	3220	4830	--	--	ABCE/ *D	C4/ *D3	1
26	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L8	1478	2956	4434	--	--	ABCE/ *D	C4/ *D3	1
27	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L9	1346	2692	4038	5384	--	ABCE/ *D	C4/ *D3	1
28	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L10	1299	2598	3897	5196	--	ABCE/ *D	C4/ *D3	1
29	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L11	1158	2316	3474	4632	--	ABCE/ *D	C4/ *D3	1
30	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L12	1112	2224	3336	4448	--	ABCE/ *D	C4/ *D3	1
31	WERRIS CK - WILLOW TREE MURRURUNDI - BRDMEDOW/MORANDOO	L13	776	1552	2328	3104	--	ABCE/ *D	C4/ *D3	1

(1) These loads require assistance from Willow Tree to Murrurundi. To calculate the permissible load for a given locomotive combination reference must be made to the information published in Section 2 page 3 in this manual to determine the type and number of assistant locomotives required. Loads for mixed locomotive combinations that do not require reduction can be calculated as follows –

Example line 22, 2 x L4 category hauling 3990 tonnes.

Ruling grade between Willow Tree and Murrurundi is 1:40 therefore the load for 2 x L4 category locomotives is 2260 tonnes leaving 1730 tonnes residue. Additional locomotives would be a single L4 category(1130t) and a single L9 category (750t). Since these locomotives can be marshalled together without any load reduction a (ref. TOC manual Section 2 General Instructions page 3) then the new locomotive consist is 3 x L4 + 1 x L9.

UP	SECTIONAL RUNNING TIMES										FULL SECTIONAL LOADS												GRADE		
											LOCOMOTIVE CATEGORIES = L														
	B1	C1	C2	C3	C4	D1	D2	D3	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13			
WERRIS CREEK	2	2	2	2	3	2	2	3	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	1:261			
WERRIS CRK. STH	2	9	10	11	12	11	11	12	6	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:82			
QUIPOLLY	7	8	9	11	14	11	13	15	6	2289	2111	1995	1872	1651	1610	1478	1346	1299	1158	1112	776	1:75			
#BRAEFIELD	5	6	6	7	7	7	8	9	4	2289	2111	1995	1872	1651	1610	1478	1346	1299	1158	1112	776	1:75			
WILLOW TREE	7	8	9	9	10	10	11	12	6	2607	2405	2274	2136	1885	1837	1689	1539	1484	1325	1272	887	1:88			
KANKOOL	7	8	10	14	%	10	14	&	6	1300	1200	1131	1056	926	909	822	750	725	640	615	410	1:40			
ARDGLEN	13	13	17	20	%	17	20	&	7	1300	1200	1131	1056	926	909	822	750	725	640	615	410	1:40			
MURRURUNDI	13	13	13	14	%	14	14	&	11	3398	3138	2968	2792	2467	2400	2216	2018	1944	1741	1670	1166	1:127			
MURULLA	9	10	10	10	11	12	12	13	8	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:82			
PARKVILLE	11	13	14	14	14	16	17	17	11	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	DG			
SCONE	6	7	7	7	7	7	7	7	6	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	DG			
TOGAR	6	7	7	7	7	8	8	8	5	3096	2858	2702	2541	2245	2185	2014	1835	1768	1582	1518	1059	1:112			
ABERDEEN	4	5	5	5	5	6	6	6	4	2607	2405	2274	2136	1885	1837	1689	1539	1484	1325	1272	887	1:87			
DARTBROOK JCT	3	3	4	4	4	4	4	5	3	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:101			
MUSWELLBROOK	6	7	7	7	7	8	8	8	6	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
ST HELIERS	7	7	7	8	9	8	8	9	6	3940	3640	3443	3242	2866	2786	2576	2346	2260	2026	1943	1356	1:154			
GRASS TREE	4	4	4	4	5	4	4	5	3	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:102			
ANTIENE	6	6	7	8	10	7	9	11	5	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100			
DRAYTON JCT.	2	2	2	2	2	2	2	2	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
NEWDELL JCT.	6	8	8	8	8	9	10	10	6	2536	2339	2211	2077	1833	1786	1642	1495	1442	1288	1236	862	1:85			
MT.OWEN JCT.	5	7	7	7	7	8	8	8	5	2536	2339	2211	2077	1833	1786	1642	1495	1442	1288	1236	862	1:86			
CAMBERWELL JCT.	6	6	7	8	10	8	10	12	5	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:82			
SINGLETON	6	7	7	8	9	8	9	10	5	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	1:251			
WHITTINGHAM	3	4	4	4	4	5	5	5	3	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	DG			
MINIMBAH X/OVER	6	7	8	9	11	9	11	14	6	2414	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:80			
BRANXTON	7	8	9	9	10	10	11	12	6	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100			
MAITLAND	16	19	20	22	25	23	25	27	15	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:101			
THORNTON	11	11	12	13	13	13	13	14	8	2990	2760	2609	2453	2167	2109	1944	1770	1707	1526	1465	1022	1:105			
HEXHAM	4	5	5	5	5	6	6	6	4	2946	2720	2571	2418	2135	2079	1915	1744	1681	1503	1443	1007	1:103			
K'GANG NTH JCT	4	5	5	5	5	6	6	6	4	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
K'GANG STH JCT	1	1	1	1	1	1	1	1	1	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100			
WARABROOK X/OVER	1	1	1	1	1	1	1	1	1	2654	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904	1:90			
HANBURY JCT	1	1	1	1	1	1	1	1	1	2881	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:100			
WARATAH	1	1	1	1	2	2	2	2	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
XYZ X/OVER	1	1	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
ISLINGTON JCT	1	1	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
WOODVILLE JCT	1	1	1	1	1	1	1	1	1	4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
BROADMEADOW	3	3	3	3	3	3	3	3	2	4426	4090	3869	3645	3223	3132	2899	2641	2542	2281	2188	1527	1:185			
WARATAH										4624	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level			
PORT WARATAH /MORANDOO																									

# Follow on location.

% Refer to Full Sectional load running times C2/C3

&amp; Refer to Full Sectional load running times D1/D2

 Location of Speed signs

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
For speed sign location and other details between <b>BROADMEADOW AND MAITLAND</b> see <b>SECTION 1B</b>					
For Coal road Speed signs see <b>SECTION 1C</b>					
MAITLAND	192.340	25	25	..	..
	192.548				
	192.670	..	..	25	25
	192.950	..	..	X25	..
	192.980	..	125	..	..
	193.400	115	130	..	..
	201.950	..	..	115	130
	202.250	100	115	..	..
	202.420	..	..	100	115
LOCHINVAR	202.601				
	204.290	115	125	..	..
	204.860	..	..	115	130
	206.290	..	..	95	110
	206.590	115	135	..	..
	210.660	115	125	..	..
GRETA	210.808				
	211.400	..	..	115	125
	211.700	105	110	..	..
	211.810	..	..	105	115
	212.110	115	135	..	..
	214.120	..	..	115	130
	215.184	..	..	X70	X35
Up sign on Down Main	215.554				
BRANXTON					
Down sign on Up Main	215.395	115	140	..	..
	217.000	..	..	115	140
Down sign on Up Main	217.300	115	140	..	..
Up sign on Down Main	218.380	..	..	115	135
	218.680	105	110	..	..
Down sign on Up Main	219.880	..	..	115	125
	220.180	95	110	..	..
Down sign on Up Main	220.850	..	..	95	110
Up sign on Down Main	221.150	105	120	..	..
	221.560	..	..	105	110
	221.610	..	..	105	120
Down sign on Up Main	221.860	115	125	..	..
	221.910	115	130	..	..
Up sign on Down Main	224.020	..	..	115	130
	224.020	..	..	115	125
Down sign on Up Main	224.320	95	105	..	..
	224.320	100	115	..	..
Up sign on Down Main	225.430	..	..	100	115
	225.430	..	..	95	105
Down sign on Up Main	225.600	X70	X85	..	..
	225.720	X70	X85	..	..
Down sign on Up Main	225.730	115	130	..	..
	225.730	105	125	..	..
Up sign on Down Main	225.755	..	..	X70	X85
	225.875	..	..	X70	X85
Down sign on Up Main	227.149	..	..	105	125
	227.449	115	130	..	..
WHITTINGHAM	231.300	..	..	115	130
	233.999				
	234.240	X75	..	..	..
Up sign on Down Main	234.270	..	..	115	130
Down sign on Up Main	234.288	X75	..	..	..
	234.421	X55	..	..	..
	234.761	..	..	X75	..

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
SINGLETON					
235.430					
237.500					
SINGLETON	238.350	X25	X25	..	..
	238.885				
CAMBERWELL JCT					
238.980					
239.050					
CAMBERWELL JCT	239.280	100	110	..	..
	239.820	..	..	100	120
	240.430	75	85	..	..
	241.590	..	..	95	105
	241.890	100	110	..	..
	243.500	90	100	..	..
	244.800	..	..	105	115
	245.810	..	..	85	95
	246.110	80	90	..	..
	246.934				
MT OWEN JCTCTN					
247.670					
250.610					
MT OWEN JCTCTN	250.920	..	110	..	..
	252.740	90	95	..	..
	253.070	..	..	90	100
	253.925				
NEWDELL JCTCTN					
254.500					
256.210					
NEWDELL JCTCTN	256.210	100	110	..	..
	258.910	..	..	115	130
	259.770	..	..	110	115
	260.070	115	135	..	..
	262.275	X35	..	..	..
	262.305				
DRAYTON JCTCTN					
262.350					
262.370					
DRAYTON JCTCTN	272.810	..	..	115	150
	272.010				
ANTIENE					
272.300					
273.600					
ANTIENE	273.900	..	..	80	90
	273.910	80	90	..	..
	273.941				
GRASSTREE					
274.480					
275.520					
GRASSTREE	275.820	90	95	..	..
	276.170	..	..	90	95
	276.460	100	105	..	..
	278.740	..	..	100	105
	279.040	115	130	..	..
	280.350	..	..	115	130
	280.600	X50	X55	..	..
	280.740	..	..	X50	X55
	280.909				
ST HELIERS					
281.000					
283.059					
ST HELIERS	283.993	..	..	115	130
	284.650	50	115	..	..
*On Loop					
284.700					
284.830					
	285.250	50	95	..	..
	287.350	..	..	50	95
	287.650	50	75	..	..

\*On Loop

### Location of Speedsigns

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT	LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
	287.960	X50	X55	..	..		342.990	..	..	115	135
	288.020	70	75	..	..		344.290	100	110	..	..
*On Loop	288.110	..	..	*X50	*X55		344.810	..	..	100	110
MUSWELLBROOK	288.560	..	..	70	75		345.110	115	135	..	..
	288.783						346.550	..	..	115	135
	288.850	35	45	..	..		346.850	110	120	..	..
*On Loop	288.870	*X25	*X25	..	..		347.300	..	..	110	120
	289.200	..	..	35	45		347.600	115	145	..	..
	289.670	105	115	..	..		349.850	..	..	115	145
	291.750	..	..	105	115		350.150	115	125	..	..
DARTBROOK JCTCTION	292.050	90	95	..	..		350.490	..	..	115	125
	292.670	..	..	90	95		350.790	115	145	..	..
	292.900	115	160	..	..		351.490	X40	X45	..	..
	294.800	..	..	115	160		352.230	..	..	115	145
	295.110	80	95	..	..		352.327				
	295.430	100	110	80	95		352.530	70	85	..	..
	296.550						352.540	..	..	X40	X45
	296.530	..	..	100	110		352.750	..	..	70	85
ABERDEEN	296.830	115	160	..	..		353.950	75	80	..	..
	300.733						355.180	..	..	75	80
	301.900	..	..	115	160		355.480	115	120	..	..
	302.200	110	125	..	..		356.610	..	..	115	135
	302.250	..	..	X25	..		356.910	55	60	..	..
	302.580	..	..	110	125		362.320	..	..	55	60
TOGAR	302.880	115	160	..	..		362.620	60	65	..	..
	306.970	..	..	115	160		363.278				
	307.107						363.280	..	..	60	65
	307.720	115	160	..	..		363.580	55	60	..	..
	311.680	..	..	115	160		364.130	..	..	X40	X45
	311.980	115	120	..	..		366.060	..	..	55	60
	312.140	..	..	115	145		366.360	50	55	..	..
	313.160	..	..	110	110		367.010	..	..	50	55
	313.460	75	85	..	..		367.310	60	65	..	..
	313.980	..	..	75	85		368.333				
*On Loop	314.180	X25	X25	..	..		368.440	..	..	60	65
SCONE	314.315	*25	*25	..	..		368.740	80	85	..	..
	314.662						370.120	..	..	80	85
	315.150	..	..	50	55		370.420	70	80	..	..
PARKVILLE	315.450	115	160	..	..		370.860	..	..	70	80
	321.500	..	..	115	160		371.160	105	115	..	..
	321.540	X40	X45	..	..		371.590	..	..	105	115
	321.750	..	..	60	60		371.890	115	120	..	..
	321.917						373.280	..	..	115	120
	322.690	..	..	X40	X45		373.580	115	115	..	..
	323.500	..	..	115	160		375.000	..	..	115	..
	324.700	30	160	115	..		375.390	X40	X45	..	..
	324.780	115	..	30	135		375.735				
	327.760	..	..	115	135		376.490	..	..	X40	X45
	328.060	105	115	..	..		379.490	..	..	X40	X45
	330.540	..	..	105	115		379.460	..	..	115	150
	330.830	95	105	..	..		379.760	115	135	..	..
	331.305	..	..	95	105		380.000	..	..	115	135
	331.610	115	120	..	..		380.160	115	160	..	..
	332.130	..	..	95	105		386.013				
	338.520	..	..	115	120		388.920	..	..	115	160
MURULLA	338.820	95	105	..	..		389.220	95	100	..	..
	339.400						390.560	..	..	95	100
	339.610	..	..	95	105		390.860	85	95	..	..
	339.910	100	110	..	..		391.300	..	..	85	95
	340.520	..	..	100	110		391.600	95	110	..	..
	340.820	95	100	..	..		391.920	..	..	95	110
	342.160	..	..	95	100		392.220	115	135	..	..
	342.460	115	135	..	..		392.280	X40	X45	..	..

## *Location of Speedsigns*

LOCATION	KILO- METRAGE	DOWN NORM	UP NORM	UP XPT
QUIRINDI	392.703			
150				
Quirindi Section Silo	393.370	..	..	X40 X45
	394.523			
	397.160	..	..	115 135
	397.460	110	115	.. ..
	400.520	..	..	110 115
	400.820	115	155	.. ..
QUIPOLLY	402.014			

#### Station Data

\* On Branch

## **Bank Locomotive working**

### **Conditions for loaded Trains between Willow Tree and Ardglen**

1. Trains with 20 to 40 tonnes gross mass vehicles in the trailing 1000 tonnes, one bank locomotive may power; trains with 40 to 60 gross mass tonne vehicles in the trailing 1000 tonnes, two bank locomotives may power; trains with vehicles of minimum mass 60 tonne gross mass in the trailing 1000 tonnes, three bank locomotives may power.  
When three locomotives are used for banking, loading in front of the trailing 1000 tonnes must not comprise any vehicles with less than 15 tonnes of loading whose individual deck lengths exceed 23.7 metres whilst they are attached to vehicles less than 14.6 metres in length.
2. The automatic coupling lifter on the leading bank locomotive must be locked in the open position by means of the approved latching device.
3. The air hoses are not to be connected between the train and the bank locomotives.
4. An adaptor will be fitted on the rear vehicle to accommodate the flashing tail light other than in auto coupler knuckle.
5. Maximum train speed not to exceed 50 km/hr between Willow Tree and Ardglen.
6. Bank locomotives not to pass Ardglen Up Starting signals.

### **Method of operation:**

1. Train to be stopped at allocated marker signs in the Up Refuge Loop at Willow Tree and remain with the automatic brake applied.
2. Bank locomotives are to compress against the rear of the train standing in the loop.
3. Bank locomotive Driver to notify train driver by radio when ready to assist.
4. Train Driver to notify Bank Locomotive driver when the starting signal is cleared and the train is ready to proceed.
5. When acknowledgement is received Train Driver is to release automatic brakes and bank locomotives to commence pushing.
6. Train Driver to begin throttling up when load meter registers approximately 400 amps, release locomotive brakes and allow train to proceed.
7. Maximum speed when assisted from rear not to exceed 50 km/hr. The Driver only is to control speed of train between Willow Tree and Ardglen.
8. Signal indicators enroute to be relayed by Train Crew to Bank Locomotive Driver.
9. On arrival at Ardglen the bank locomotives must only assist the train to such distance as will allow the bank locomotives to stop and remain inside the Ardglen Up Starting signals, being on either Main or Loop line.
10. In the event of Bank Locomotives failing to release from the rear of train at Ardglen, the train is to proceed to Murrurundi where bank locomotives are to be detached. The Bank Locomotive Driver is to notify the train Driver of the circumstances when clear of Ardglen Tunnel.
11. The trailing load for Marshalling Restrictions purposes behind the rear Train Locomotive, is calculated as "the train load, less the sum of the Full Sectional Loads for the operational Bank Locomotives (for the section Willow Tree to Ardglen)  
In the event of failure, the train must be cleared from the section on the authority of a Special Authority Order, should the bank locomotive/s be required to return to Willow Tree with portion of the load. This must be done on the authority of a separate Special Authority Order.

## **Grade control valve operation**

Grade control valves are to be set to the EX position on all wagons of all trains travelling in the Northern Region with the following exceptions:

### **Section Of Track Requiring Use of Grade Control Valves**

**Down North - Ardglen to Kankool**

**Up North - Ardglen to Murrurundi**

**Note: When traversing the above sections of track:**

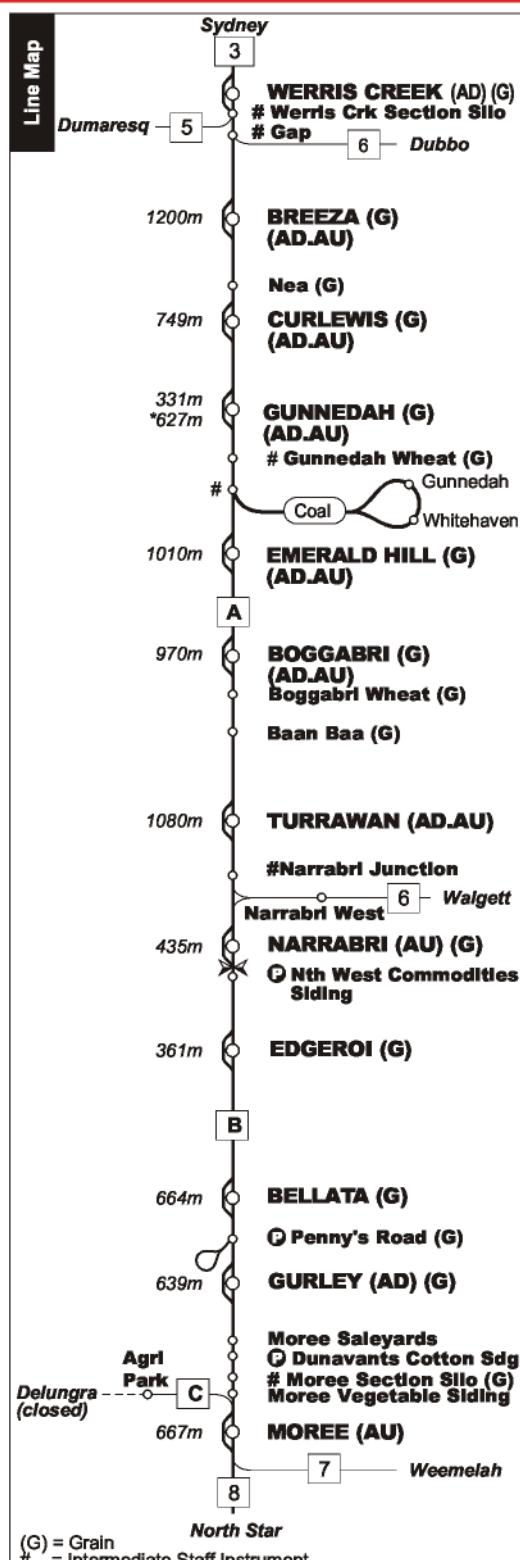
1. Grade control valves are to be placed in the IP position only on loaded vehicles (i.e. those with empty/load valves in the LOADED position).
2. Vehicles without load compensation are to operate in the EX position unless the mass of the vehicle is 20 tonne or more in which case the grade control valve is to be placed in the IP position.
3. At least 50% of the tonnage of the loaded vehicles must have operational grade control valves.

# **Werris Creek - Moree**

## section 4

## **Maximum Speed of Locomotives and Rolling Stock**

**NOTES:**



Safeworking System	Werris Creek to Breeza	Electric Staff	Turrawan to Narrabri	Electric Staff
	Breeza to Curlewis	Electric Staff	Narrabri to Edgeroi	Staff and Ticket
	Curlewis to Gunnedah	Electric Staff	Edgeroi to Bellata	Staff and Ticket
	Gunnedah to Emerald Hill	Electric Staff	Bellata to Gurley	Staff and Ticket
	Emerald Hill to Boggabri	Electric Staff	Gurley to Moree	Electric Staff
	Boggabri to Turrawan	Electric Staff	Moree to Agri Park	Yard Working

DOWN		LOCO-MOTIVE CLASS = L	LOCOMOTIVES					VEHICLE CLASS	SECT RUN TIMES	NOTES
LOADS & CONDITIONS			SINGLE	DOUBLE	TRIPLE	QUAD	QUIN			
SECTIONS		LOADS TONNES								
1	WERRIS CREEK – MOREE	L4	900	1800	2700	3600	--	ABC/ *D	1/*6	
2										
3	WERRIS CREEK – MOREE	L11	550	1100	1650	2200	--	ABC/ *D	2/*6	
4	WERRIS CREEK – MOREE	L13	--	--	--	850	--	ABC/ *D	2/*6	
5										
6	WERRIS CREEK – MOREE	L4	1396	2792	4188	--	--	ABC/ *D	3/*6	
7	WERRIS CREEK – MOREE	L6	1149	2298	3447	--	--	ABC/ *D	3/*6	
8	WERRIS CREEK – MOREE	L8	1024	2048	3072	--	--	ABC/ *D	3/*6	
9										
10	WERRIS CREEK – MOREE	L5	1307	2614	3921	--	--	ABC/ *D	4/*6	
12	WERRIS CREEK – MOREE	L7	1125	2250	3375	--	--	ABC/ *D	4/*6	
13	WERRIS CREEK – MOREE	L9	933	1866	2799	3732	--	ABC/ *D	4/*6	
14	WERRIS CREEK – MOREE	L10	902	1804	2706	3608	--	ABC/ *D	4/*6	
15	WERRIS CREEK – MOREE	L11	800	1600	2400	3200	--	ABC/ *D	4/*6	
16	WERRIS CREEK – MOREE	L12	768	1536	2304	3072	--	ABC/ *D	4/*6	
17	WERRIS CREEK – MOREE	L13	380	760	1140	1520	--	ABC/ *D	4/*6	
18										
19	WERRIS CREEK – MOREE	L13	536	1072	1608	2144	--	ABC/ *D	5/*7	

DOWN	SECTIONAL RUNNING TIMES							FULL SECTIONAL LOADS												GRADE		
	1	2	3	4	5	6	7	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
WERRIS CREEK	21a	21a	21a	21a	21a	24a	25a	16a	2954	2793	2627	2321	2259	2083	1897	1828	1636	1570	1096			
BREEZA	21a	21a	22a	22a	24a	26a	27a	17a	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904	1:114		
CURLEWIS	21a	21a	22a	22a	24a	26a	27a	17a	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904	1:93		
GUNNEDAH	15a	15a	16a	17a	19a	19a	20a	13a	2227	2104	1976	1743	1699	1561	1422	1372	1224	1175	820	1:82		
EMERALD HILL	15a	15a	16a	16a	17a	18a	19a	13a	3047	2882	2711	2395	2330	2150	1959	1887	1689	1621	1131	1:119		
BOGGABRI	18a	18a	19a	19a	20a	22a	23a	15a	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904	1:90		
TURRAWAN	28a	28a	32a	32a	37a	35a	40a	23a	1479	1396	1307	1149	1125	1024	933	902	800	768	536	1:52		
NARRABRI	22a	22a	23a	23a	24a	25a	27a	18a	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904	1:90		
EDGEROI	29a	24a	30a	27a	31a	30a	33a	20/28	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	1:102		
BELLATA	24a	19a	24a	20a	21a	24a	25a	15/24	2954	2793	2627	2321	2259	2083	1897	1828	1636	1570	1096	1:116		
GURLEY	22a	18a	23a	19a	21a	23a	25a	15/22	2111	1995	1872	1651	1610	1478	1346	1299	1158	1112	776	1:75		
MOREE	33a	25a	33a	26a	28a	33a	33a	21/33	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level		

# Light locomotive running times on right hand side of column between Edgeroi and Moree apply to S2, S3 and S5 category locomotives. All dual times shown in this column are arrival times.

UP	LOADS & CONDITIONS SECTIONS	LOCO-MOTIVE CLASS = L	LOCOMOTIVES					VEHICLE CLASS	TRAIN DATA SECT RUN TIMES	NOTES
			SINGLE	DOUBLE	TRIPLE	QUAD	QUIN			
LOADS TONNES										
1	MOREE – WERRIS CREEK	L4	1130	2260	3390	4520	--	ABCE/ *D	1/*6	
2										
3	MOREE – WERRIS CREEK	L10	725	1450	2175	2900	--	ABCE/ *D	2/*6	
4	MOREE – WERRIS CREEK	L11	640	1280	1920	2560	--	ABCE/ *D	2/*6	
5										
6	MOREE – WERRIS CREEK	L4	1995	3990	5985	--	--	ABCE/ *D	3/*7	
7	MOREE – WERRIS CREEK	L6	1651	3302	4953	--	--	ABCE/ *D	3/*7	
8	MOREE – WERRIS CREEK	L8	1478	2956	4434	--	--	ABCE/ *D	3/*7	
9										
10	MOREE – WERRIS CREEK	L5	1872	3744	5616	--	--	ABCE/ *D	4/*7	
11	MOREE – WERRIS CREEK	L7	1610	3220	4830	--	--	ABCE/ *D	4/*7	
12	MOREE – WERRIS CREEK	L9	1346	2692	4038	--	--	ABCE/ *D	4/*7	
13	MOREE – WERRIS CREEK	L10	1299	2598	3897	--	--	ABCE/ *D	4/*7	
14	MOREE – WERRIS CREEK	L11	1158	2316	3474	--	--	ABCE/ *D	4/*7	
15	MOREE – WERRIS CREEK	L12	1112	2224	3336	--	--	ABCE/ *D	4/*7	
16	MOREE – WERRIS CREEK	L13	560	1120	1680	2240	--	ABCE/ *D	4/*7	
17										
18	MOREE – WERRIS CREEK	L13	776	1552	2328	3104	--	ABCE/ *D	5/*8	
19										
20	WERRIS CREEK YARD	L13	675	--	--	--	--	ABCED		1

Note 1. This load is conditional on the train being loaded while propelling. On completion of loading the locomotive would be standing adjacent to the loading bin and must receive a clear run into Werris Creek Yard.

UP	SECTIONAL RUNNING TIMES	FULL SECTIONAL LOADS														GRADE						
		LOCOMOTIVE CATEGORIES = L																				
1	2	3	4	5	6	7	8	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14
MOREE	29a	29a	34a	31a	36a	33a	34a	# 21/33	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600			
GURLEY	33a	29a	34a	31a	36a	33a	34a	36a	2659	2514	2363	2086	2032	1871	1704	1643	1469	1410	984	Level		
BELLATA	22a	20a	25a	24a	28a	22a	25a	29a 15/22	3481	3292	3099	2739	2664	2462	2242	2160	1935	1857	1296	1:100		
EDGEROI	24a	21a	25a	24a	27a	24a	26a	28a 15/24	2339	2211	2077	1833	1786	1642	1495	1442	1288	1236	862	1:143		
NARRABRI	27a	24a	29a	26a	28a	27a	29a	31a 18/27	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904	1:87		
TURRAWAN	24a	23a	28a	28a	33a	26a	29a	33a 18a	2111	1995	1872	1651	1610	1478	1346	1299	1158	1112	776	1:75		
BOGGABRI	30a	30a	39a	40a	46a	35a	43a	50a 23a	4274	4044	3809	3369	3274	3032	2761	2658	2386	2288	1600	Level		
EMERALD HILL	18a	19a	21a	21a	25a	22a	23a	25a 15a	2449	2315	2175	1920	1870	1720	1567	1511	1350	1295	904	1:89		
GUNNEDAH	16a	16a	19a	20a	24a	18a	21a	24a 13a	2760	2609	2453	2167	2109	1944	1770	1707	1526	1465	1022	1:106		
CURLEWIS	17a	17a	20a	20a	23a	19a	22a	24a 13a	2858	2702	2541	2245	2185	2014	1835	1768	1582	1518	1059	1:111		
BREEZA	22a	22a	26a	27a	31a	25a	29a	32a 17a	2111	1995	1872	1651	1610	1478	1346	1299	1158	1112	776	1:76		
WERRIS CRK	22a	22a	31a	33a	41a	24a	33a	41a 16a														

# Light locomotive running times on right hand side of column between Moree and Narrabri apply to S2, S3 and S5 category locomotives. All dual times shown in this column are arrival times.

### Location of Speed signs

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
<b>WERRIS CREEK</b>					
	<b>410.844</b>				
	<b>410.885</b>	90	90	..	..
	<b>411.710</b>	115	130	90	90
	<b>415.270</b>	100	105	115	130
<b>GAP</b>	<b>416.050</b>				
	<b>416.600</b>	115	140	100	105
	<b>431.500</b>	..	..	115	140
	<b>431.800</b>	105	105	..	..
	<b>432.310</b>	..	..	105	105
	<b>432.870</b>	115	125	..	..
	<b>433.937</b>				
	<b>436.175</b>	100	110	115	125
	<b>436.855</b>	115	120	100	110
<b>BREEZA</b>	<b>439.160</b>	..	..	115	120
	<b>439.500</b>	115	130	..	..
	<b>440.990</b>	..	..	115	130
	<b>441.400</b>	115	140	..	..
	<b>450.164</b>				
	<b>456.000</b>	..	..	115	140
	<b>456.300</b>	115	130	..	..
	<b>457.000</b>	115	115	..	..
	<b>457.500</b>	..	..	115	130
<b>CURLEWIS</b>	<b>458.000</b>	75	80	..	..
	<b>458.270</b>	X25	X25	..	..
	<b>458.485</b>				
	<b>458.980</b>	..	..	75	80
	<b>458.540</b>	115	130	..	..
	<b>459.680</b>	..	..	115	115
	<b>460.000</b>	115	135	..	..
	<b>469.170</b>	..	..	115	135
	<b>469.470</b>	115	125	..	..
<b>GUNNEDAH</b>	<b>473.200</b>	85	85	..	..
	<b>474.000</b>	..	..	115	125
	<b>475.460</b>	X25	X25	..	..
	<b>475.837</b>				
	<b>475.980</b>	..	..	X25	X25
	<b>476.205</b>	80	85	..	..
	<b>477.330</b>	115	160	80	80
	<b>477.332</b>				
	<b>480.153</b>				
<b>Gunnedah Wheat Siding</b>	<b>492.725</b>	..	..	115	160
	<b>493.025</b>	80	80	..	..
	<b>493.360</b>				
	<b>493.680</b>	..	..	X25	X25
	<b>494.338</b>	..	..	80	80
	<b>494.638</b>	115	160	..	..
	<b>500.350</b>	..	..	115	160
	<b>500.650</b>	115	145	..	..
	<b>501.590</b>	..	..	115	145
<b>BOGGABRI</b>	<b>501.900</b>	115	160	..	..
	<b>509.600</b>	..	..	115	160
	<b>509.990</b>	115	145	..	..
	<b>514.600</b>	X25	X25	..	..
	<b>515.174</b>				
	<b>514.625</b>	85	85	..	..
	<b>515.218</b>	..	..	115	145

LOCATION	KILO-METRAGE	DOWN NORM	DOWN XPT	UP NORM	UP XPT
<b>Baan Baa</b>					
	<b>515.370</b>	..	..	X25	X25
	<b>515.706</b>	..	..	85	85
	<b>516.251</b>	115	145	..	..
	<b>519.800</b>	..	..	115	145
	<b>520.140</b>	115	120	..	..
	<b>522.000</b>	..	..	115	120
	<b>522.335</b>	80	90	..	..
	<b>524.950</b>	115	125	80	90
	<b>526.450</b>	..	..	115	125
	<b>527.000</b>	115	140	..	..
	<b>530.703</b>				
<b>TURRAWAN</b>					
	<b>547.646</b>				
	<b>562.380</b>	..	..	115	140
	<b>562.680</b>	115	120	..	..
	<b>564.600</b>	80	80	..	..
	<b>564.660</b>	X25	X25	115	120
	<b>564.680</b>	40	40	..	..
	<b>565.009</b>				
<b>NARRABRI JUNCTION</b>					
	<b>565.200</b>	..	..	40	40
	<b>565.326</b>				
	<b>565.511</b>	20	20	..	..
	<b>565.585</b>	80	80	..	..
	<b>568.280</b>	70	75	..	..
	<b>568.713</b>	50	50	..	..
	<b>568.840</b>	..	..	80	80
	<b>568.860</b>	70	75	..	..
	<b>568.975</b>	..	..	50	50
	<b>569.020</b>	..	..	80	80
	<b>569.240</b>				
<b>NARRABRI</b>					
	<b>569.870</b>	..	..	30	80
	<b>569.920</b>	30	30	..	..
	<b>569.990</b>	..	..	30	30
	<b>570.040</b>	30	105	..	..
	<b>570.890</b>	100	105	..	..
	<b>572.841</b>				
<b>Christakos Cotton Sdg</b>					
	<b>575.840</b>	90	95	100	105
	<b>579.850</b>	75	80	90	95
	<b>580.370</b>	100	115	75	80
	<b>585.000</b>	..	..	100	115
	<b>585.310</b>	100	110	..	..
	<b>586.180</b>	..	..	100	110
	<b>586.500</b>	100	140	..	..
	<b>592.700</b>	..	..	100	140
	<b>593.060</b>	100	120	..	..
	<b>593.360</b>	..	..	100	120
	<b>593.561</b>				
<b>EDGEROI</b>					
	<b>593.830</b>	100	140	X25	X25
	<b>615.468</b>				
	<b>622.140</b>	..	..	100	140
	<b>622.350</b>	..	..	80	80
	<b>622.350</b>	..	..	80	80
	<b>622.350</b>	..	..	80	80

### Location of Speed signs

LOCATION	KILO-	DOWN		UP	
	METRAGE	NORM	XPT	NORM	XPT
GURLEY	634.700	..	..	100	140
	635.020	100	130	..	..
	635.130	X25	X25	..	..
	635.414				
Dunavants Cotton Sdg	635.690	..	..	X25	X25
	640.300	..	..	100	130
	640.600	100	105	..	..
	641.000	80	90	100	105
	641.485	100	130	80	90
	658.870				
	660.300	..	..	100	130

LOCATION	KILO-	DOWN		UP	
	METRAGE	NORM	XPT	NORM	XPT
Moree Wheat Siding	660.300	..	..	100	130
	660.600	100	105	..	..
	663.157				
MOREE	664.420	..	..	100	105
	664.860	70	70	..	..
	665.520	..	..	70	70
	665.601				

### Station Data

Station	Kilo-metrage	Signal box Status	Hours of signal box	Facilities
Werris Creek	410.844		See SECTION 3	P
Werris Creek Bulk	411.641			G,ISI
Wheat Sidings				
Gap	416.050	U	Unattended	ISI
Breeza	433.937	U	Unattended	G,P
Nea Wheat Siding	450.164			G
Curlewis	458.485	U	Unattended	G,P
Gunnedah	475.837	P	Sun 1000 to 1800, 2300 Sun continuous to 2300 Sat	G,P
Gunnedah Stock-yards & Wheat Sdg	477.308			G,ISI
Gunnedah Abattoirs & Vickery Coal loop	479.620			ISI
Emerald Hill	493.360	U	Unattended	G,P
Boggabri	515.174	U	Unattended	G,P
Boggabri Wheat Sdg	516.056			G
Baan Baa	530.703			G
Turrawan	547.646	U	Unattended	
Narrabri Junction	565.009			G,ISI
Narrabri	569.240	U	Unattended	G,P
North West Commodities Sdg	572.841			PS
Edgeroi	593.561	U	Unattended	G,P
Bellata	615.468	U	Unattended	G,P
Pennys Road	623.979			PS,G
Gurley	635.414	U	Unattended	G,P
Moree Sale Yards	658.379			
Dunavants Cotton Sdg	658.870			ISI,PS
Moree Silo Siding	663.157			G,ISI
Moree Vegetable Sdg	663.813			PS
Moree	665.601	U	Unattended	P
INVERELL LINE				
Agri park	668.500			

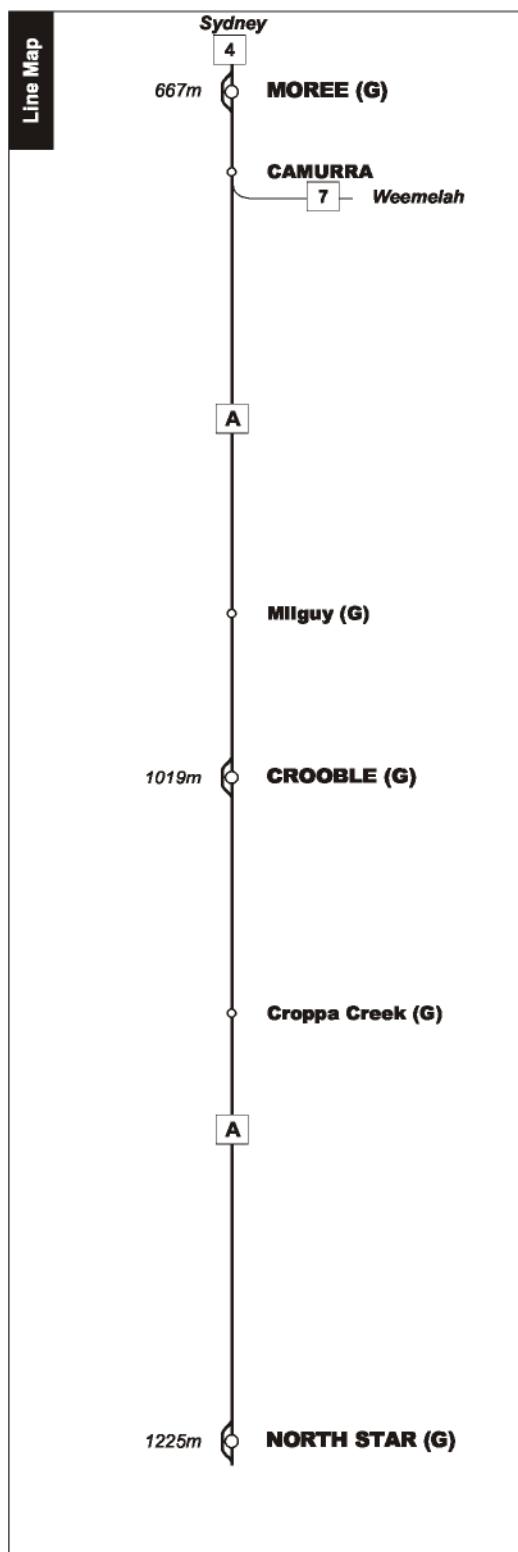


# Moree - North Star

## section 8

Maximum Speed of Locomotives and Rolling Stock	
	SECTIONS Moree - North Star
Class of Track	3W
Line Map reference	A
<b>Locomotives</b>	
Multiple Locos	4
S1	N/A
S2	N/A
S3	N/A
S4	N/A
S5	35
S6	35
S7	35
S8	35
S9	80
S10	80
S11	80
S12	80
S13	80
<b>Freight</b>	
Class A	80
Class B	80
Class C	80
Class D	60
Class E	60
Class F	N/A
Class G	N/A
<b>Passenger</b>	
XPT	N/A
Xplorer	N/A
Diesel Train	80
Loco Hauled	80
<b>Accident Cranes</b>	
70 tonne	N/A
110 tonne	60
120 tonne	N/A
Notes	

NOTES:



Safeworking System	Moree to Camurra Camurra to Crooble Crooble to North Star	Staff and Ticket Staff and Ticket Staff and Ticket
--------------------	---	--

DOWN		LOCO-MOTIVE CLASS = L	LOCOMOTIVES					TRAIN DATA		NOTES
LOADS & CONDITIONS SECTIONS			SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES	
		LOADS TONNES								
1	MOREE – NORTH STAR	L10	1500	3000	--	--	--	ABCDE	1	
2	MOREE – NORTH STAR	L13	850	1700	2550	3400	--	ABCDE	2	
3	MOREE – NORTH STAR	L13	1100	2200	3300	4400	--	ABCDE	3	
4	MOREE – NORTH STAR	L4	1000	2000	3000	4000	--	ABCDE	4	

DOWN	SECTIONAL RUNNING TIMES							FULL SECTIONAL LOADS										GRADE					
	1	2	3	4	5	6	7	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	
MOREE	8	8	8	8					8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CAMURRA	17a	18a	20a	22a					4270	4000	3809	3370	3360	3260	2700	2660	2450	2290	1600				Level
Milguy	39	47	57	57					2955	2790	2627	2320	2310	2235	1900	1825	1640	1570	1100				1:120
CROOBLE	14a	16a	18a	21a					2955	2790	2627	2320	2310	2235	1900	1825	1640	1570	1100				1:118
Croppa Creek	21	25	29	31					2860	2700	2541	2245	2165	2015	1835	1770	1590	1515	1060				1:113
NORTH STAR	30a	32a	36a	48a					2860	2700	2541	2245	2160	2015	1835	1770	1590	1520	1050				1:108

# Light locomotive running times on right hand side of column between Moree and North Star apply to S5, S6, S7 and S8 category locomotives.

UP	SECTIONAL RUNNING TIMES							LOCOMOTIVES					TRAIN DATA		NOTES	
	1	2	3	4	5	6	7	Loco	SINGLE	DOUBLE	TRIPLE	QUAD	QUIN	VEHICLE CLASS	SECT RUN TIMES	
							LOADS TONNES									
1	NORTH STAR – MOREE	L10	1500	3000	4500	--	--	ABCDE	1							
2	NORTH STAR – MOREE	L13	850	1700	2550	3400	--	ABCDE	2							
3	NORTH STAR – MOREE	L13	1100	2200	3300	4400	--	ABCDE	3							
4	NORTH STAR – MOREE	L4	2700	5400	--	--	--	ABCDE	4							

UP	SECTIONAL RUNNING TIMES							FULL SECTIONAL LOADS										GRADE					
	1	2	3	4	5	6	7	Loco	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	
NORTH STAR	8	8	8	8					8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Croppa Creek	33	37	42	51					21/48	2660	2510	2363	2085	2010	1870	1700	1645	1475	1410	980			1:100
CROOBLE	21a	24a	27a	32a					13/30	2860	2700	2541	2245	2160	2015	1835	1770	1590	1520	1050			1:111
Milguy	13	14	15	22					10/21	2955	2790	2627	2320	2310	2235	1900	1825	1640	1570	1100			1:118
CAMURRA	33a	33a	34a	58a					26/57	4270	4000	3809	3370	3360	3260	2700	2660	2450	2290	1600			Level
MOREE	17a	18a	21a	23a					12/22	4270	4000	3809	3370	3360	3260	2700	2660	2450	2290	1600			Level

# Light locomotive running times on right hand side of column between North Star and Moree apply to S5, S6, S7 and S8 category locomotives.

### Location of Sharp curves

No speed signs are provided between CAMURRA and NORTH STAR. Refer to MAXIMUM SPEED OF LOCOMOTIVES AND ROLLING STOCK table for maximum speeds.

LOCATION	KILO-METRAGE	FROM START KM	TO END KM	RADIUS OF CURVE IN METRES	MAX SPEED	LOCATION	KILO-METRAGE	FROM START KM	TO END KM	RADIUS OF CURVE IN METRES	MAX SPEED
MOREE	665.601					CROPPA CREEK	733.599				
CAMURRA	676.895	677.050	677.350	485	50		746.440	746.820	400	45	
		677.510	678.240	240	35		746.980	747.360	400	45	
MILGUY	706.818					NORTH STAR	758.571				
CROOBLE	717.906										

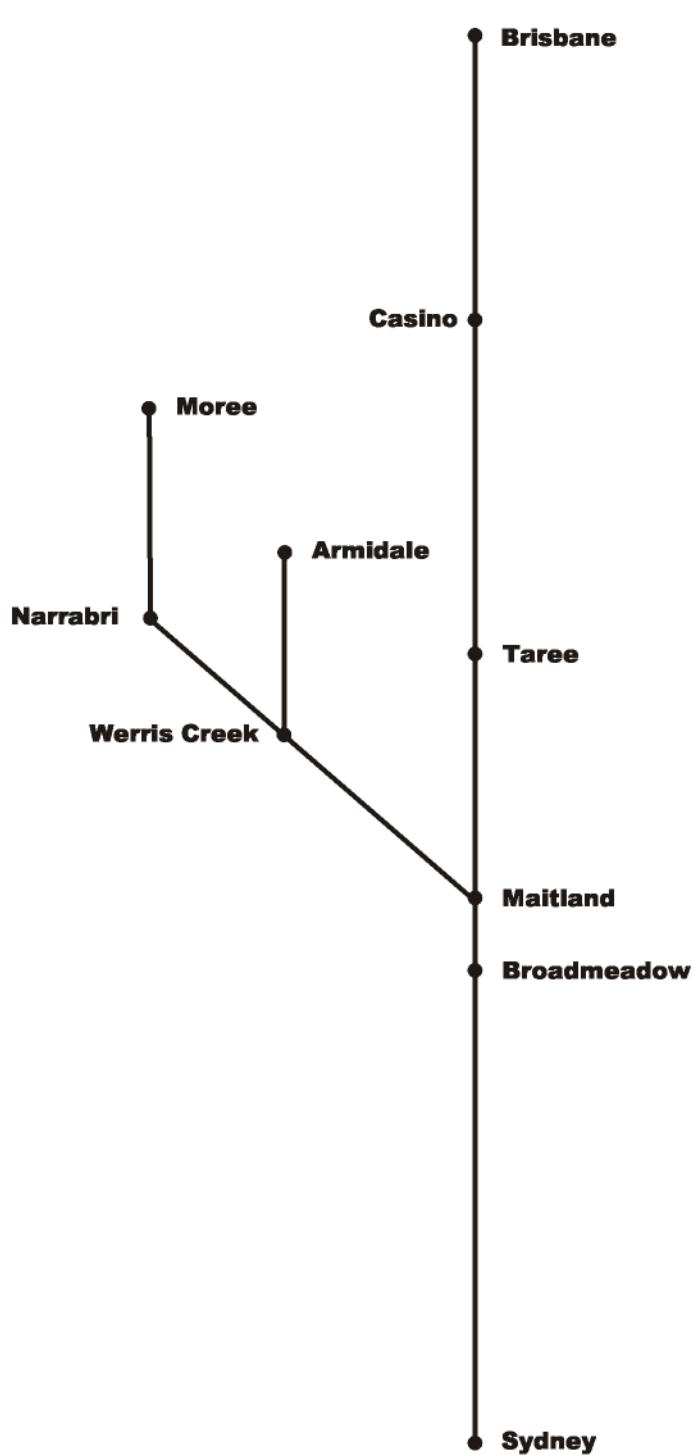
### Station Data

Station	Kilo-metres	Signal box Status	Hours of signal box	Facilities
Moree	665.601		Unattended	P
Camurra	676.895	U	Unattended	
Milguy	706.818			G
Crooble	717.906	U	Unattended	G
Croppa Creek	733.599	U	Unattended	G
North Star	758.571	U	Unattended	G

# NSW

# rail

## passenger train running times



## SYDNEY - CASINO - BRISBANE

COLUMN	AREA	COMPOSITION
Column 1 Down	Sydney - Brisbane	XPT - 7 passenger car consist (160 km/h Max Speed)
Column 2 Down	Sydney - Casino	XPT - 7 passenger car consist (160 km/h Max Speed)
Column 3 Down	Sydney - Brisbane	XPT - 7 passenger car consist (120 km/h Max Speed)
Column 4 Down	Sydney - Casino	XPT - 7 passenger car consist (120 km/h Max Speed)

## Down

	1	2	3	4	5
Sydney	2	2	2	2	
Illawarra Jun	3	3	3	3	
Ashfield	5	5	5	5	
Strathfield	3a	3a	3a	3a	
Nth Strathfield Jun	1	1	1	1	
Rhodes	2	2	2	2	
West Ryde	3	3	3	3	
Epping	3	3	3	3	
Thornleigh	5	5	5	5	
Hornsby	4a	4a	4a	4a	
Berowra	9	9	9	9	
Cowan	3	3	3	3	
Hawkesbury River	8	8	8	8	
Woy Woy	12	12	12	12	
Gosford	7a	7a	7a	7a	
Ourimbah	7	7	7	7	
Wyong	6a	6a	6a	6a	
Wyee	7	7	7	7	
Morisset	6	6	6	6	
Awaba	10	10	10	10	
Fassifern	5a	5a	5a	5a	
Sulphide Junction	9	9	9	9	
Broadmeadow	7a	7a	7a	7a	
Woodville Junction	1	1	1	1	
Islington Junction	1	1	1	1	
Waratah	1	1	1	1	
Hanbury Jun	1	1	1	1	
Thornton	9	9	9	9	
Maitland	6a	6a	7a	7a	
Telarah	4	4	4	4	
Mindaribba	7	7	7	7	
Paterson	7	7	7	7	
Kilbride	7	7	7	7	
Wallarobba Loop	6	6	6	6	
Dungog	10	11a	10	11a	
Monkerai	8	8	8	8	
Stroud Road	10	10	10	10	
Weismantels	9	9	9	9	
Craven	10	10	10	10	
Berrico	8	8	8	8	
Gloucester	6	7a	6	7a	
Bulliac	13	13	13	13	
Bundook	9	9	9	9	
Mt George	7	7	7	7	
Killawarra	13	13	13	13	
Wingham	6	6a	6	6a	
Taree	10a	10a	10a	10a	
Melinga	11	11	11	11	
Coopernook	9	9	9	9	
Johns River	11	11	11	11	

## Down

	1	2	3	4	5
Johns River	2	2	2	2	
Kendall	12	12	12	12	
Kerewong	11	11	11	11	
Wauchope	7a	7a	7a	7a	
Telegraph Point	13	13	13	13	
Kundabung	9	9	9	9	
Kempsey	13a	13a	13a	13a	
Tamban	12	12	12	12	
Eungai	11	11	11	11	
Macksville	14	15a	14	15a	
Nambucca Heads	10	11	10	11	
Urunga	..	..	..	..	
Raleigh	15	15	15	15	
Bonville	7	7	7	7	
Sawtell	3a	3a	3a	3a	
Boambee Beach	3	3	3	3	
Coffs Harbour	2a	2a	2a	2a	
Landrigans	10	10	10	10	
Corambla	7	7	7	7	
Nana Glen	9	9	9	9	
Glenreagh	10	10	10	10	
Kungala	9	9	9	9	
Braunstone	12	12	12	12	
Grafton City	11a	11a	11a	11a	
Grafton	3	3	3	3	
Kyarran	10	10	10	10	
Lawrence Road	20	20	20	20	
Banyabba	3	3	3	3	
Camira Creek	7	7	8	8	
Rappville	13	13	13	13	
Leeville	10	10	10	10	
Casino	8a	8a	8a	8a	
Kyogle	22a		22a		
Kyogle Loop	3a		3a		
Loadstone	23a		23a		
Glenapp	24a		24a		
Bromelton	30a		30a		
Greenbank	15a		15a		
Acacia Ridge	12		12		
Clapham	4		4		
Brisbane Transit	13a		13a		

a = To arrive. The next section includes starting time from that location.

All other times are passing.

When required to stop at a passing location, add one minute to that locations passing time and then add one minute to the next section.

**BRISBANE – CASINO – SYDNEY**

COLUMN	AREA	COMPOSITION
Column 1 Up	Brisbane - Sydney	XPT – 7 passenger car consist (160 km/h Max Speed)
Column 2 Up	Casino - Sydney	XPT – 7 passenger car consist (160 km/h Max Speed)
Column 3 Up	Brisbane - Sydney	XPT – 7 passenger car consist (120 km/h Max Speed)
Column 4 Up	Casino - Sydney	XPT – 7 passenger car consist (120 km/h Max Speed)

**Up**

	1	2	3	4	5
Brisbane Transit	2		2		
Clapham	13		13		
Acacia Ridge	4		4		
Greenbank	12a		13a		
Bromelton	16a		16a		
Glenapp	26a		26a		
Loadstone	24a		24a		
Kyogle Loop	22a		22a		
Kyogle	2a		2a		
Casino	23a	2	23a	2	
Leeville	8	8	8	8	
Rappville	8	8	8	8	
Camira Creek	14	14	14	14	
Banyabba	10	10	10	10	
Lawrence Road	3	3	3	3	
Kyarran	18	18	18	18	
Grafton	10	10	10	10	
Grafton City	4a	4a	4a	4a	
Braunstone	11	11	11	11	
Kungala	13	13	13	13	
Glenreagh	9	9	9	9	
Nana Glen	10	10	10	10	
Corambla	9	9	9	9	
Landrigans	7	7	7	7	
Coffs Harbour	10a	10a	10a	10a	
Boambee Beach	2	2	2	2	
Sawtell	4a	4a	4a	4a	
Bonville	4	4	4	4	
Raleigh	7	7	7	7	
Urunga	4a	4a	4a	4a	
Nambucca Heads	13a	13a	13a	13a	
Macksville	11a	11a	11a	11a	
Eungai	14	14	14	14	
Tamban	11	11	11	11	
Kempsey	13a	13a	13a	13a	
Kundabung	13	13	13	13	
Telegraph Point	9	9	9	9	
Wauchope	13a	13a	13a	13a	
Kerewong	7	7	7	7	
Kendall	10	10	10	10	
Johns River	12	12	12	12	
Coopernook	11	11	11	11	
Melinga	9	9	9	9	
Taree	12a	12a	12a	12a	
Wingham	10	11a	10	11a	
Killawarra	6	6	6	6	
Mt George	14	14	14	14	
Bundook	6	6	6	6	
Bulliac	9	9	9	9	

**Up**

	1	2	3	4	5
Bulliac	2	2	2	2	
Gloucester	13a	13a	13a	13a	
Berrico	7	7	7	7	
Craven	9	9	9	9	
Weismantels	10	10	10	10	
Stroud Road	9	9	9	9	
Monkerai	10	10	10	10	
Dungog	8a	7	8a	7	
Wollarobba Loop	11	11	11	11	
Kilbride	6	6	6	6	
Paterson	7	7	7	7	
Mindaribba	7	7	7	7	
Telarah	7	7	7	7	
Maitland	3a	3a	3a	3a	
Thornton	6	6	6	6	
Hanbury Jun	7	7	7	7	
Waratah	1	1	1	1	
Islington Junction	1	1	1	1	
Woodville Junction	1	1	1	1	
Broadmeadow	2a	2a	3a	3a	
Sulphide Junction	8	8	8	8	
Fassifern	8a	8a	8a	8a	
Awaba	3	3	3	3	
Morisset	11	11	11	11	
Wyee	5	5	5	5	
Wyong	8a	8a	8a	8a	
Ourimbah	6	6	6	6	
Gosford	7a	7a	7a	7a	
Woy Woy	6	6	6	6	
Hawkesbury River	12	12	12	12	
Cowan	9	9	9	9	
Berowra	3	3	3	3	
Hornsby	8a	8a	8a	8a	
Thornleigh	3	3	3	3	
Epping	5	5	5	5	
West Ryde	3	3	3	3	
Rhodes	2	2	2	2	
Nth Strathfield Jun	3	3	3	3	
Strathfield	1a	1a	1a	1a	
Ashfield	3	3	3	3	
Illawarra Jun	5	5	5	5	
Sydney	4a	4a	4a	4a	

a = To arrive. The next section includes starting time from that location.

All other times are passing.

When required to stop at a passing location, add one minute to that locations passing time and then add one minute to the next section.

**SYDNEY – WERRIS CREEK – ARMIDALE / MOREE**

COLUMN	AREA	COMPOSITION
Column 1 Down / Up	Sydney – Armidale – Sydney	Xplorer (145 km/h Max Speed)
Column 1 Down / Up	Werris Creek - Moree	Xplorer (145 km/h Max Speed)
Column 2 Down / Up	Sydney – Armidale – Sydney	Xplorer (120 km/h Max Speed)
Column 2 Down / Up	Werris Creek - Moree	Xplorer (120 km/h Max Speed)
<b>Down</b>		
	1      2	
Sydney	→	→
Illawarra Jun	3	3
Ashfield	5	5
Strathfield	3a	3a
Nth Strathfield Jun	1	1
Rhodes	2	2
West Ryde	3	3
Epping	3	3
Thornleigh	5	5
Hornsby	4a	4a
Berowra	9	9
Cowan	3	3
Hawkesbury River	8	8
Woy Woy	12	12
Gosford	7a	7a
Ourimbah	7	7
Wyong	6a	6a
Wyee	7	7
Morisset	6	6
Awaba	10	10
Fassifern	5a	5a
Sulphide Junction	9	9
Broadmeadow	7a	7a
Woodville Junction	1	1
Islington Junction	1	1
Waratah	..	..
Hanbury Jun	..	..
Thornton	..	..
Maitland	16a	18a
Branxton	13	13
Minimbah xovers	..	..
Whittingham	..	..
Singleton	13a	13a
Camberwell Jun	..	..
Mt Owen Jun	..	..
Newdell Jun	15	15
Drayton Jun	..	..
Antiene	6	6
MK53 Grasstree	6	6
MK 54 St Hellers	2	2
Muswellbrook	4a	4a
Aberdeen	9a	9a
Togar	3	3
Scone	7a	7a
Parkville	6	6
Murulla	10	10
Murrurundi	9a	9a
Ardglen	11	11
Kankool	5	5
Willow Tree	5a	5a
Braefield	6	6
Quirindi	5a	5a
Quipolly	7	7
Werris Creek	8a	8a
West Tamworth	25a	25a
Tamworth	5a	5a
Kootingal	15a	16a
Walcha Road	48a	48a
Uralla	27a	27a
Armidale	19a	19a
<b>WERRIS CREEK - MOREE</b>		
Werris Creek	→	→
Breeza	15a	15a
Curlewis	15a	15a
Gunnedah	11a	11a
Emerald Hill	11a	11a
Boggabri	13a	13a
Turrawan	20a	20a
Narrabri	15a	15a
Edgeroi	17a	17a
Bellata	15a	15a
Gurley	15a	15a
Moree	18a	20a
<b>Up</b>		
	1      2	
Armidale	→	→
Uralla	19a	19a
Walcha Road	27a	27a
Kootingal	41a	43a
Tamworth	13a	13a
West Tamworth	5a	5a
Werris Creek	25a	25a
Quipolly	8	8
Quirindi	7a	7a
Braefield	4	4
Willow Tree	5a	5a
Kankool	6	6
Ardglen	6	6
Murrurundi	11a	11a
Murulla	8	8
Parkville	10	10
Scone	5a	5a
Togar	5	5
Aberdeen	4a	4a
Muswellbrook	8a	8a
MK 54 St Hellers	5	5
MK53 Grasstree	2	2
Antiene	6	6
Drayton Jun	..	..
Newdell Jun	6	6
Mt Owen Jun	..	..
Camberwell Jun	..	..
Singleton	15a	15a
Whittingham	..	..
Minimbah xovers	..	..
Branxton	13	13
Maitland	13a	13a
Thornton	..	..
Hanbury Jun	..	..
Waratah	..	..
Islington Junction	19	19
Woodville Junction	1	1
Broadmeadow	2a	2a
Sulphide Junction	8	8
Fassifern	8a	8a
Awaba	4	4
Morisset	12	12
Wyee	5	5
Wyong	8a	8a
Ourimbah	6	6
Gosford	7a	7a
Woy Woy	6	6
Hawkesbury River	12	12
Cowan	12	12
Berowra	3	3
Hornsby	7a	7a
Thornleigh	3	3
Epping	6	6
West Ryde	3	3
Rhodes	2	2
Nth Strathfield Jun	3	3
Strathfield	1a	1a
Ashfield	3	3
Illawarra Jun	5	5
Sydney	4a	4a
<b>MOREE - WERRIS CREEK</b>		
Moree	→	→
Gurley	18a	18a
Bellata	16a	16a
Edgeroi	15a	15a
Narrabri	16a	17a
Turrawan	14a	14a
Boggabri	20a	20a
Emerald Hill	12a	12a
Gunnedah	11a	11a
Curlewis	11a	11a
Breeza	16a	16a
Werris Creek	16a	16a

a = To arrive. The next section includes starting time from that location.

All other times are passing.

When required to stop at a passing location, add one minute to that locations passing time and then add one minute to the next section.