

Handicap Time Adjustments
Adopted for 2020

Grade	Predicted Peleton Speed			HANDICAP Time Adjustment per course [km] in minutes [with no adjustment for peleton size]											
	<25 km	25-45km	45km+	Jandanol	Narra Tarra	EChap	LMF	Narra Tx3	Nab-Nthptr	Windfarm	Nab E.Bowes	Mingenew	StradRoss	Mullewa	
				9.7	14.3	26	32.3	43	46	40	80	82.5	110	125	
A	1	41	39.5	38.3	0	0	0	0	0	0	0	0	0	0	0
	2	38.3	37	36	1.0	1.5	2.7	3.3	4.4	4.6	4.1	8.0	8.3	11.0	12.5
B	1	36	35	34	2.0	2.9	5.1	6.3	8.4	9.1	7.8	15.9	16.3	21.8	24.8
	2	34	33	32	2.9	4.3	7.8	9.7	12.9	14.2	12.0	24.7	25.4	33.9	38.6
C	1	32	31	30	4.0	5.9	10.8	13.5	17.9	19.9	16.7	34.7	35.8	47.7	54.2
	2	30	29	28.25	5.2	7.7	14.3	17.8	23.6	25.6	22.0	44.6	46.0	61.3	69.7
	3	28.25	27.5	26.75	6.4	9.4	17.2	21.4	28.5	31.1	26.5	54.1	55.8	74.4	84.6
D		26.7	26		7.6	11.2	20.5	25.5	33.9						
E		15			24.6	36.3									

METHODOLOGY DISCUSSION

- * Adjust times for peleton size assuming each rider is at the front 33% or less for full performance of that peleton in the race.
- * For shorter rides the adjustments are not needed as riders have more capacity to go hard for most of the race.
- * At the margin, speed reduction is proportional to time reduction so just adjust time directly.

TABLE of % REDUCTIONS in GRADE TIME GAPS:

# in peleton	45km+	<45km
1	-50% time gap	no adjusment
2	no adjustment*	no adjusment
3+	no adjustment	no adjustment

A minimum gap of 2 minutes is reqd between grades in a handicap start for any race otherwise the faster grade will catch the slower grade.

*The Event Organiser only adjust handicaps for peletons of 2 in special cases.

Figures may be rounded at the discretion of the Event Organiser

TABLE of PELETON SIZE-ADJUSTED GRADE HANDICAP TIMES

peleton #s	Nab-Nthptn 46	NabEBowes 80	Mingenew 82.5	StradRoss 110	Mullewa 125
1xA1	0	0	0	0	0
3xA2	2.3	4.0	4.1	5.5	6.3
4xB1	6.8	11.8	12.2	16.3	18.5
4xB2	11.9	20.7	21.3	28.4	32.3
2xC1	17.6	30.7	31.6	42.2	47.9
2xC2	23.3	40.6	41.8	55.8	63.4
1xC3	31.1	54.1	55.8	74.4	84.6
peleton #s	Nab-Nthptn 46	NabEBowes 80	Mingenew 83.5	StradRoss 110	Mullewa 125
1xA1	0	0	0	0	0
1xA2	4.6	8.0	8.3	11.0	12.5
4xB1	6.8	11.8	12.2	16.3	18.5
1xB2	14.2	24.7	25.4	33.9	38.6
2xC1	17.6	30.7	31.6	42.2	47.9
2xC2	23.3	40.6	41.8	55.8	63.4
1xC3	31.1	54.1	55.8	74.4	84.6

Table Commentary: Scenario 1

In this scenario we have one A1 rider with all other grades normal
A2 grade time adj is reduced to 50% of value in HC table[top of page]
eg in Mullewa Race reduce time gap A1 to A2 peleton by 6.2mins

All other grade values are reduced by 1/2 of the A1 to A2 gap
to complete the handicap table [i.e.-6.2mins in Mullewa race]

Scenario 2

In this scenario we have one A1, one A2 and one B2 riders which complicates the adjustments
Firstly A1 to A2 gap is left unchanged and the handicap for the B1 riders is also unchanged.
All other handicaps go down by half of the A1-A2 Gap i.e. half the A2 handicap