

Appendix Two: Site and species matrix for NZDFI demonstration trials planted 2010 - 2014

Region	Marlborough				Canterbury				Wairarapa					Hawkes Bay					Gisborne		Central North Island		Horizons		Nelson
Site Code	54	57	67	73	28	29	56	77	61	62	68	71	76	24	25	59	70	74	58	72	20	65	26	75	27
Planting year	11	13	11	11	14	14	11	13	11	13	11	10	13	14	14	11	11	12	10/11	11	14	11	14	13/14	14
<i>E. argophloia</i>	x		x		x		x		x		x	x				x	x	x	x	x		x			
<i>E. bosistoana</i>	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>E. camaldulensis</i>	x	x	x		x	x	x	x	x		x		x		x	x	x	x	x	x	x	x	x	x	x
<i>E. cladocalyx</i>	x	x	x		x		x	x	x		x			x	x	x	x	x	x	x	x		x	x	x
<i>E. eugenioides</i>	x		x				x		x		x					x	x		x	x		x			
<i>E. globoidea</i>	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
<i>E. longifolia</i>	x		x		x	x	x		x		x				x	x	x		x		x	x	x	x	x
<i>E. macrorhyncha</i>	x	x	x		x	x	x	x	x		x		x		x	x	x		x	x	x	x	x	x	x
<i>E. notabilis</i>	x		x				x		x		x					x			x	x					
<i>E. quadrangulata</i>	x		x	x	x	x	x		x		x	x		x	x	x	x	x	x	x	x	x	x	x	x
<i>E. tricarpa</i>	x	x	x		x	x	x	x	x		x		x		x	x	x		x	x	x	x	x	x	x

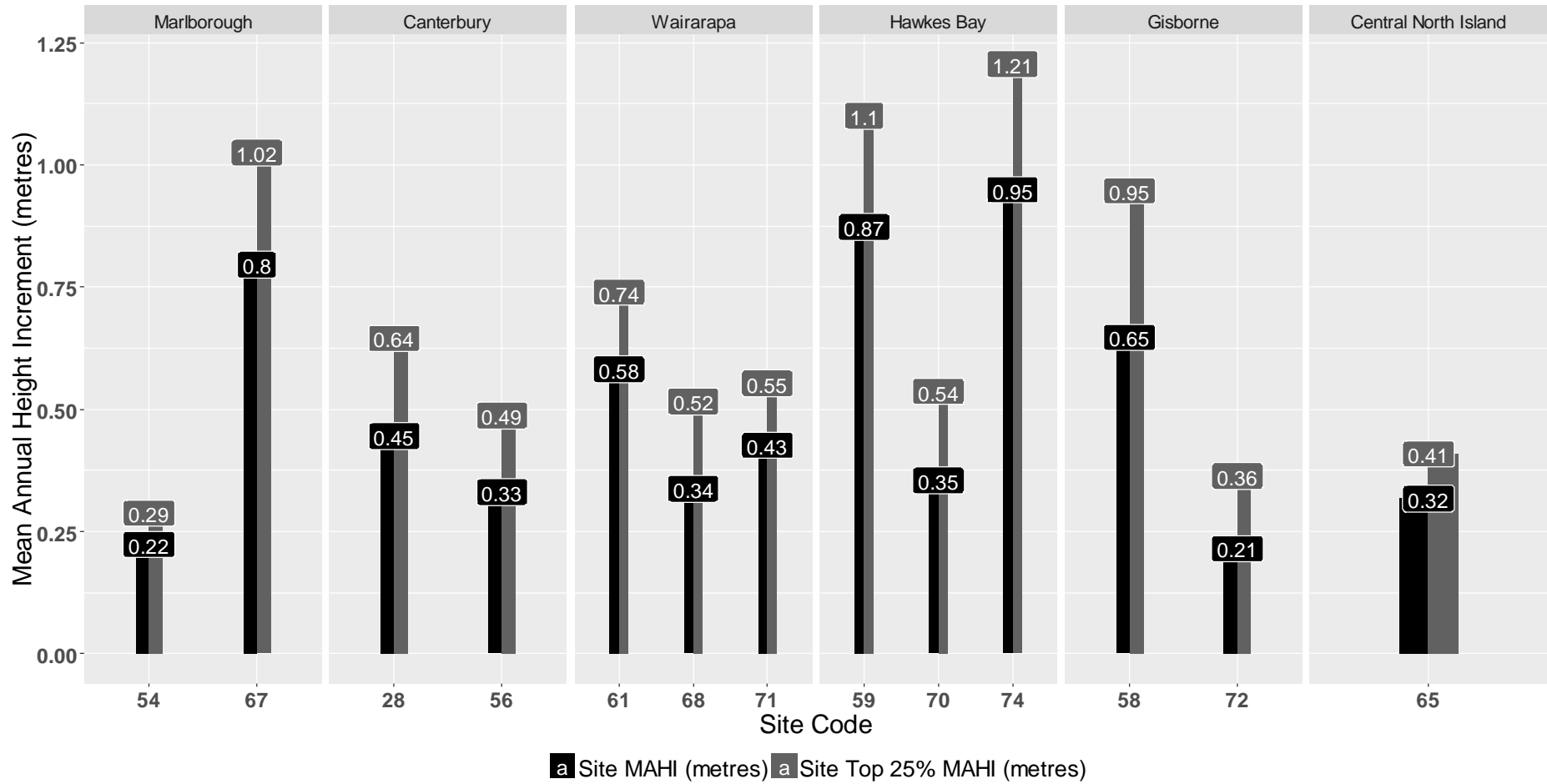
Appendix Three:

**Species Mean Annual Height Increment (MAHI) tables and graphs
based on data from trials planted 2010 - 2014.**

NZDFI *Eucalyptus argophloia* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage difference
Marlborough	54	0.22	0.29	0.07	32%
	67	0.80	1.02	0.22	28%
Canterbury	28	0.45	0.64	0.19	42%
Wairarapa	61	0.58	0.74	0.16	28%
	68	0.34	0.52	0.18	53%
	71	0.43	0.55	0.12	28%
Hawkes Bay	70	0.35	0.54	0.19	54%
	74	0.95	1.21	0.26	27%
	59	0.87	1.10	0.23	26%
Gisborne	58	0.65	0.95	0.30	46%
	72	0.21	0.36	0.15	71%
Central North Island	65	0.32	0.41	0.09	28%

NZDFI *Eucalyptus argophloia* trials - Mean Annual Height Increment (MAHI) by Site

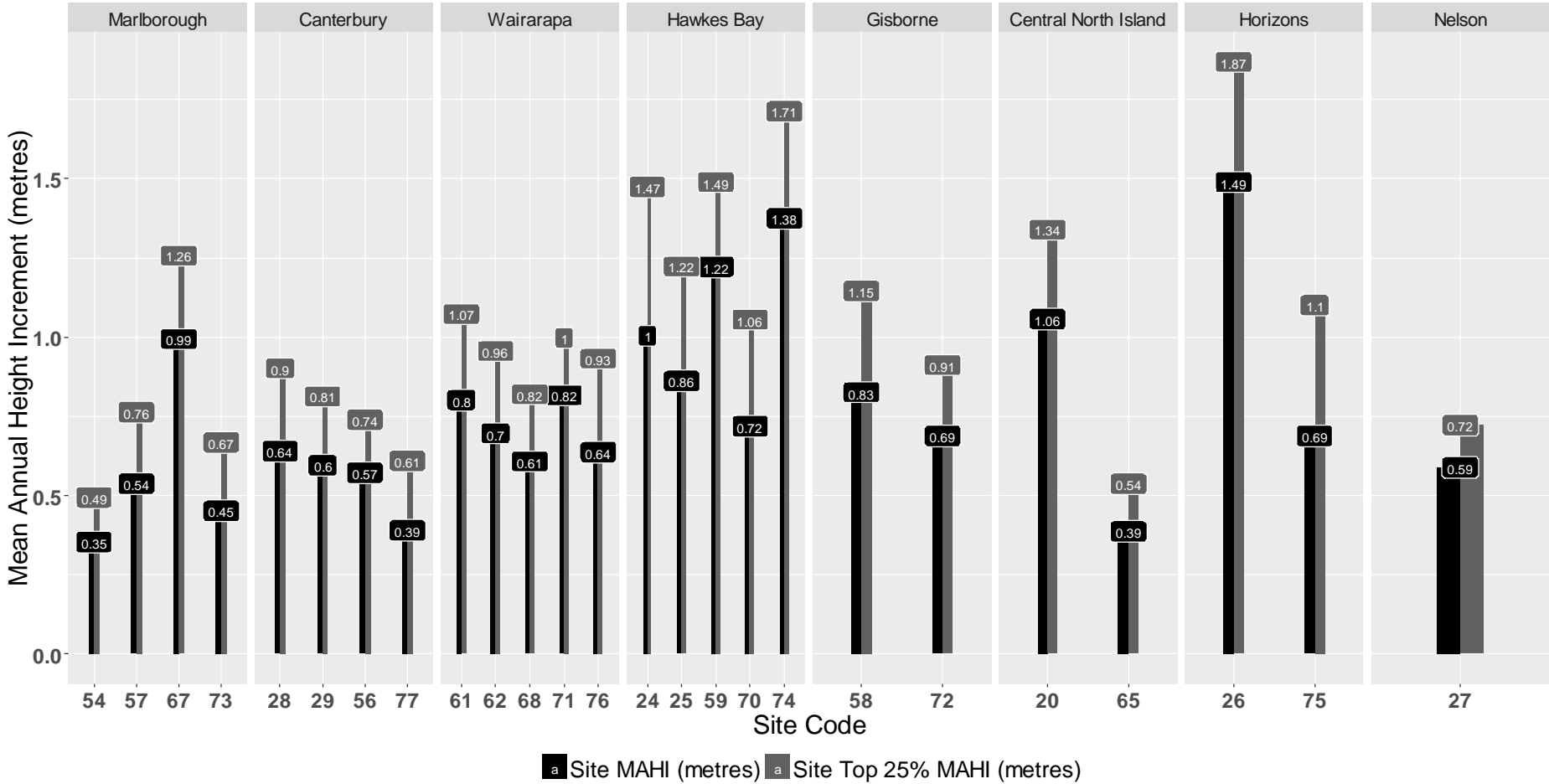


NZDFI *Eucalyptus bosistoana* trials – Mean Annual Height Increment (MAHI) by site.

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage difference
Marlborough	54	0.35	0.49	0.14	38%
	57	0.54	0.76	0.22	41%
	67	0.99	1.26	0.27	27%
	73	0.45	0.67	0.22	48%
Canterbury	28	0.64	0.90	0.26	41%
	29	0.60	0.81	0.21	35%
	56	0.57	0.74	0.17	30%
	77	0.39	0.61	0.22	56%
Wairarapa	61	0.80	1.07	0.27	34%
	62	0.70	0.96	0.26	37%
	68	0.61	0.82	0.21	34%
	71	0.82	1.00	0.18	22%

	76	0.64	0.93	0.29	45%
Hawkes Bay	24	1.00	1.47	0.47	47%
	25	0.86	1.22	0.36	42%
	59	1.22	1.49	0.27	22%
	70	0.72	1.06	0.34	47%
	74	1.38	1.71	0.33	24%
Gisborne	58	0.83	1.15	0.32	39%
	72	0.69	0.91	0.22	32%
Central North Island	20	1.06	1.34	0.28	26%
	65	0.39	0.54	0.15	38%
Horizons (Manawatu/ Tararua and Rangitikei)	26	1.49	1.87	0.38	26%
	75	0.69	1.10	0.41	59%
Nelson	27	0.59	0.72	0.13	22%

NZDFI *Eucalyptus bosistoana* trials - Mean Annual Height Increment (MAHI) by Site

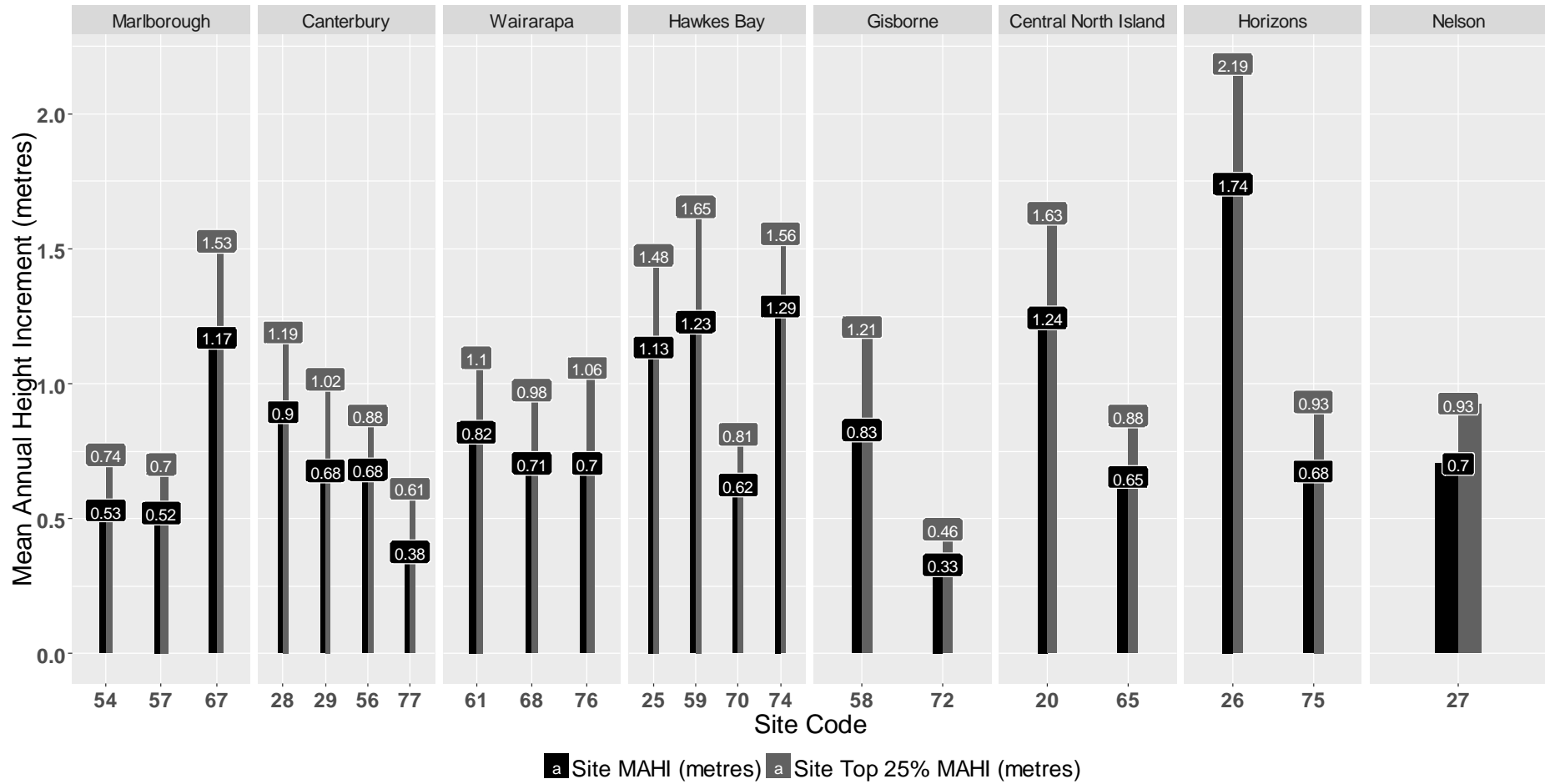


NZDFI *Eucalyptus camaldulensis* trials – Mean Annual Height Increment (MAHI) by site.

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage difference
Marlborough	54	0.53	0.74	0.21	40%
	57	0.52	0.70	0.18	34%
	67	1.17	1.53	0.36	31%
Canterbury	28	0.90	1.19	0.29	32%
	29	0.68	1.02	0.34	50%
	56	0.68	0.88	0.20	29%
	77	0.38	0.61	0.23	61%
Wairarapa	61	0.82	1.10	0.28	34%
	68	0.71	0.95	0.25	35%
	76	0.70	1.06	0.35	50%
Hawkes Bay	25	1.13	1.48	0.35	31%
	59	1.23	1.65	0.42	34%

	70	0.62	0.81	0.18	29%
	74	1.29	1.56	0.27	21%
Gisborne	58	0.83	1.21	0.38	46%
	72	0.33	0.46	0.13	39%
Central North Island	20	1.24	1.63	0.39	31%
	65	0.65	0.88	0.23	35%
Horizons (Manawatu/ Tararua and Rangitikei)	26	1.74	2.19	0.45	26%
	75	0.68	0.93	0.25	37%
Nelson	27	0.70	0.93	0.23	33%

NZDFI *Eucalyptus camaldulensis* trials - Mean Annual Height Increment (MAHI) by Site

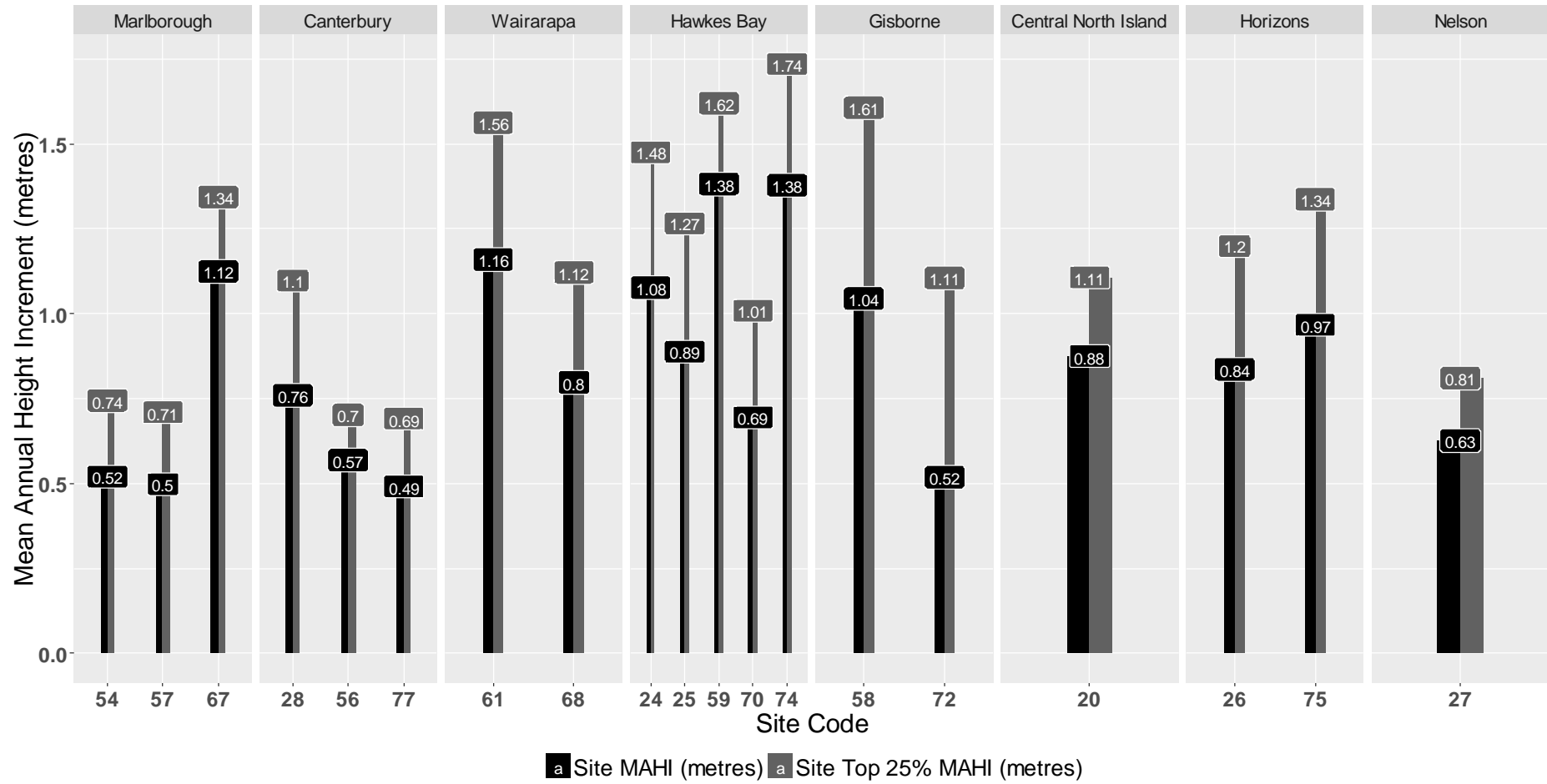


NZDFI *Eucalyptus cladocalyx* trials – Mean Annual Height Increment (MAHI) by site.

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage difference
Marlborough	54	0.52	0.74	0.22	42%
	57	0.50	0.71	0.21	42%
	67	1.12	1.34	0.22	20%
Canterbury	28	0.76	1.10	0.34	45%
	56	0.57	0.70	0.13	23%
	77	0.49	0.69	0.20	41%
Wairarapa	61	1.16	1.56	0.40	34%
	68	0.80	1.12	0.32	40%
Hawkes Bay	24	1.08	1.48	0.40	37%
	25	0.89	1.27	0.38	43%
	59	1.38	1.62	0.24	17%
	70	0.69	1.01	0.31	45%

	74	1.38	1.74	0.36	26%
Gisborne	58	1.04	1.61	0.57	55%
	72	0.52	1.11	0.59	113%
Central North Island	20	0.88	1.11	0.23	26%
Horizons (Manawatu/ Taranaki and Rangitikei)	26	0.84	1.20	0.26	31%
	75	0.97	1.34	0.37	38%
Nelson	27	0.63	0.81	0.19	30%

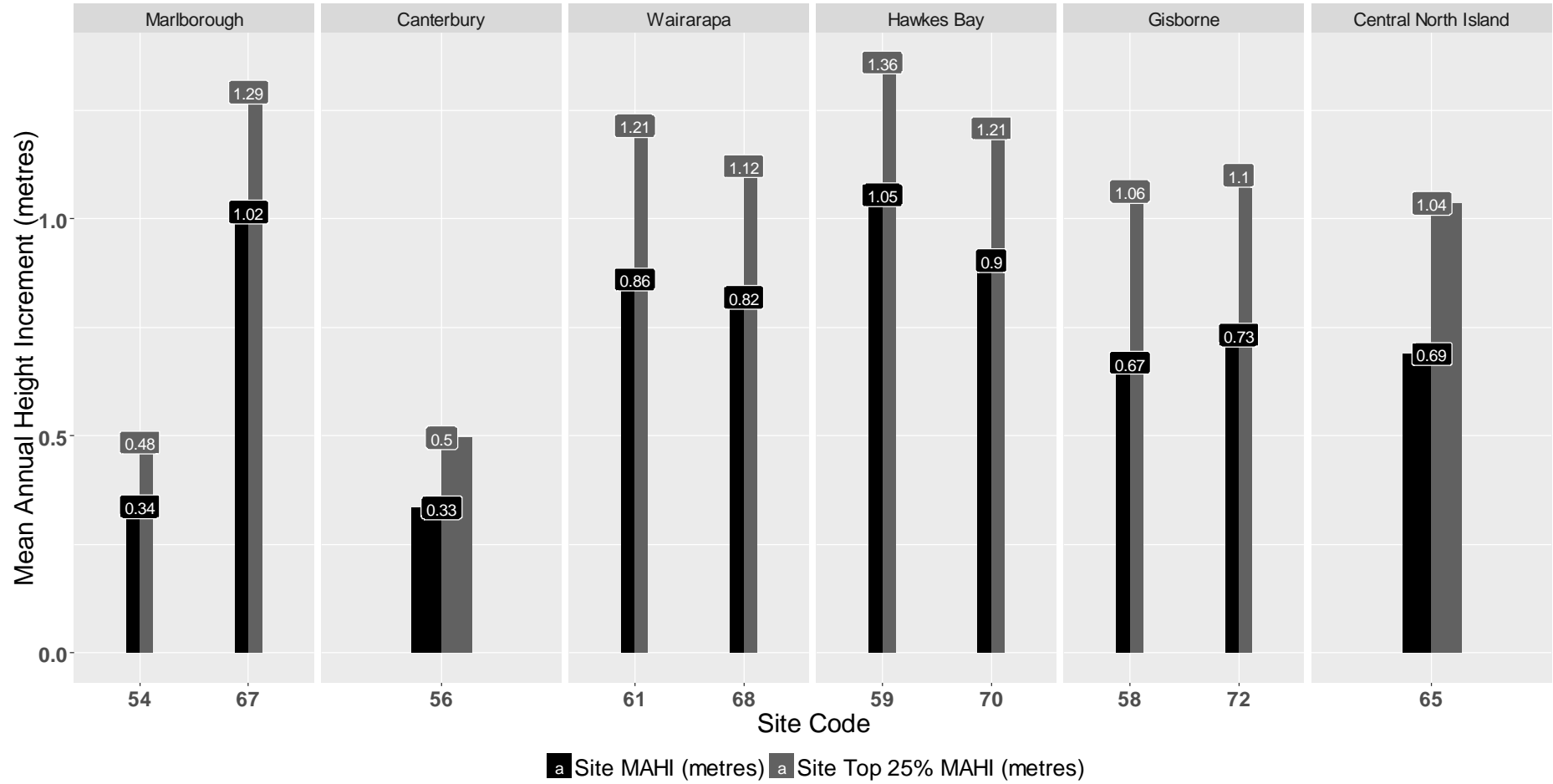
NZDFI *Eucalyptus cladocalyx* trials - Mean Annual Height Increment (MAHI) by Site



NZDFI *Eucalyptus eugenioides* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage difference
Marlborough	54	0.34	0.48	0.14	41%
	67	1.02	1.29	0.27	26%
Canterbury	56	0.33	0.50	0.17	52%
Wairarapa	61	0.86	1.21	0.35	41%
	68	0.82	1.12	0.30	37%
Hawkes Bay	59	1.05	1.36	0.31	30%
	70	0.90	1.21	0.31	34%
Gisborne	58	0.67	1.06	0.39	58%
	72	0.73	1.10	0.37	51%
Central North Island	65	0.69	1.04	0.35	51%

NZDFI *Eucalyptus eugenioides* trials - Mean Annual Height Increment (MAHI) by Site

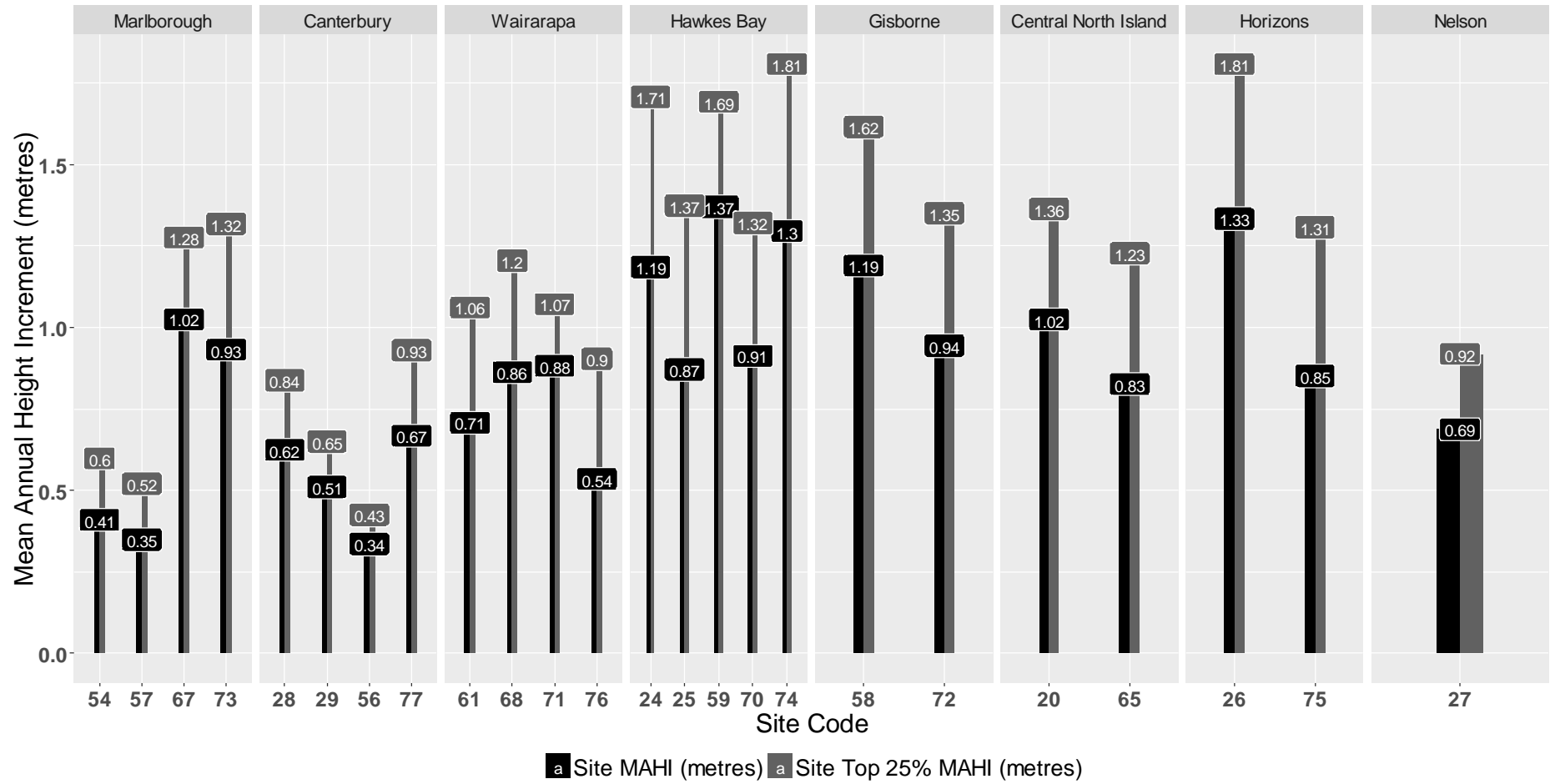


NZDFI *Eucalyptus globoides* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage difference
Marlborough	54	0.41	0.60	0.19	46%
	57	0.35	0.52	0.17	49%
	67	1.02	1.28	0.26	25%
	73	0.93	1.32	0.39	42%
Canterbury	28	0.62	0.84	0.22	35%
	29	0.51	0.65	0.14	27%
	56	0.34	0.43	0.09	26%
	77	0.67	0.93	0.26	43%
Wairarapa	61	0.71	1.06	0.35	49%
	68	0.86	1.20	0.34	40%
	71	0.88	1.07	0.19	22%
	76	0.54	0.90	0.36	67%

Hawkes Bay	24	1.19	1.71	0.52	44%
	25	0.87	1.37	0.52	60%
	59	1.37	1.69	0.32	23%
	70	0.91	1.32	0.41	45%
	74	1.30	1.81	0.51	39%
Gisborne	58	1.19	1.62	0.43	36%
	72	0.94	1.36	0.41	44%
Central North Island	20	1.02	1.36	0.33	32%
	65	0.83	1.23	0.40	48%
Horizons (Manawatu/Tararua and Rangitikei)	26	1.33	1.81	0.48	36%
	75	0.85	1.31	0.46	54%
Nelson	27	0.69	0.92	0.24	35%

NZDFI *Eucalyptus globoides* trials - Mean Annual Height Increment (MAHI) by Site

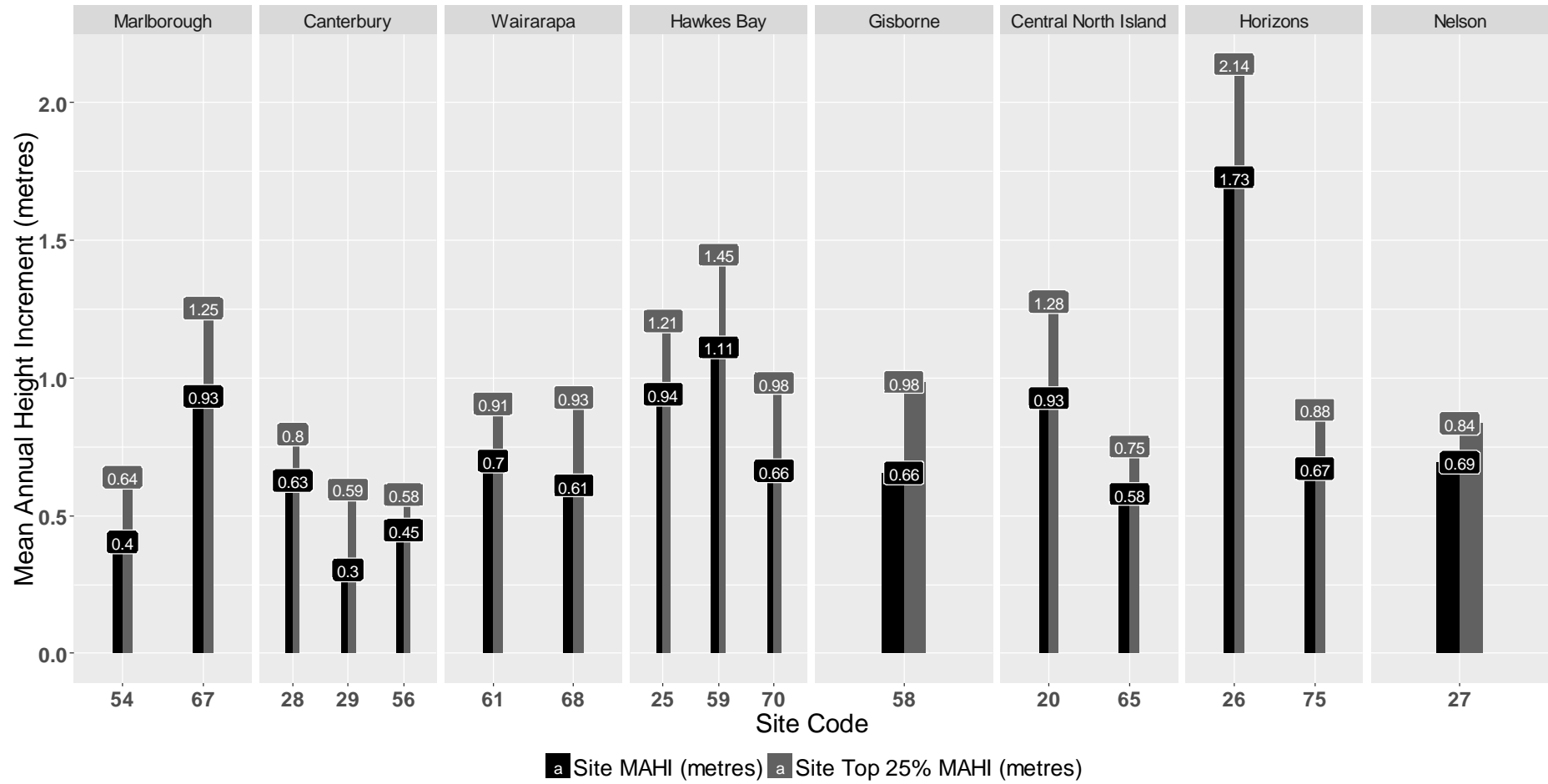


NZDFI *Eucalyptus longifolia* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage Difference
Marlborough	54	0.40	0.64	0.24	60%
	67	0.93	1.25	0.32	34%
Canterbury	28	0.63	0.80	0.18	29%
	29	0.30	0.59	0.29	97%
	56	0.45	0.58	0.13	29%
Wairarapa	61	0.70	0.91	0.21	30%
	68	0.61	0.93	0.32	52%
Hawkes Bay	25	0.94	1.21	0.27	29%
	59	1.11	1.45	0.34	31%
	70	0.66	0.98	0.32	48%
Gisborne	58	0.66	0.98	0.32	48%
Central North Island	20	0.93	1.28	0.35	38%

	65	0.58	0.75	0.17	29%
Horizons (Manawatu/Tararua and Rangitikei)	26	1.73	2.14	0.41	24%
	75	0.67	0.88	0.21	31%
Nelson	27	0.69	0.84	0.15	22%

NZDFI *Eucalyptus longifolia* trials - Mean Annual Height Increment (MAHI) by Site

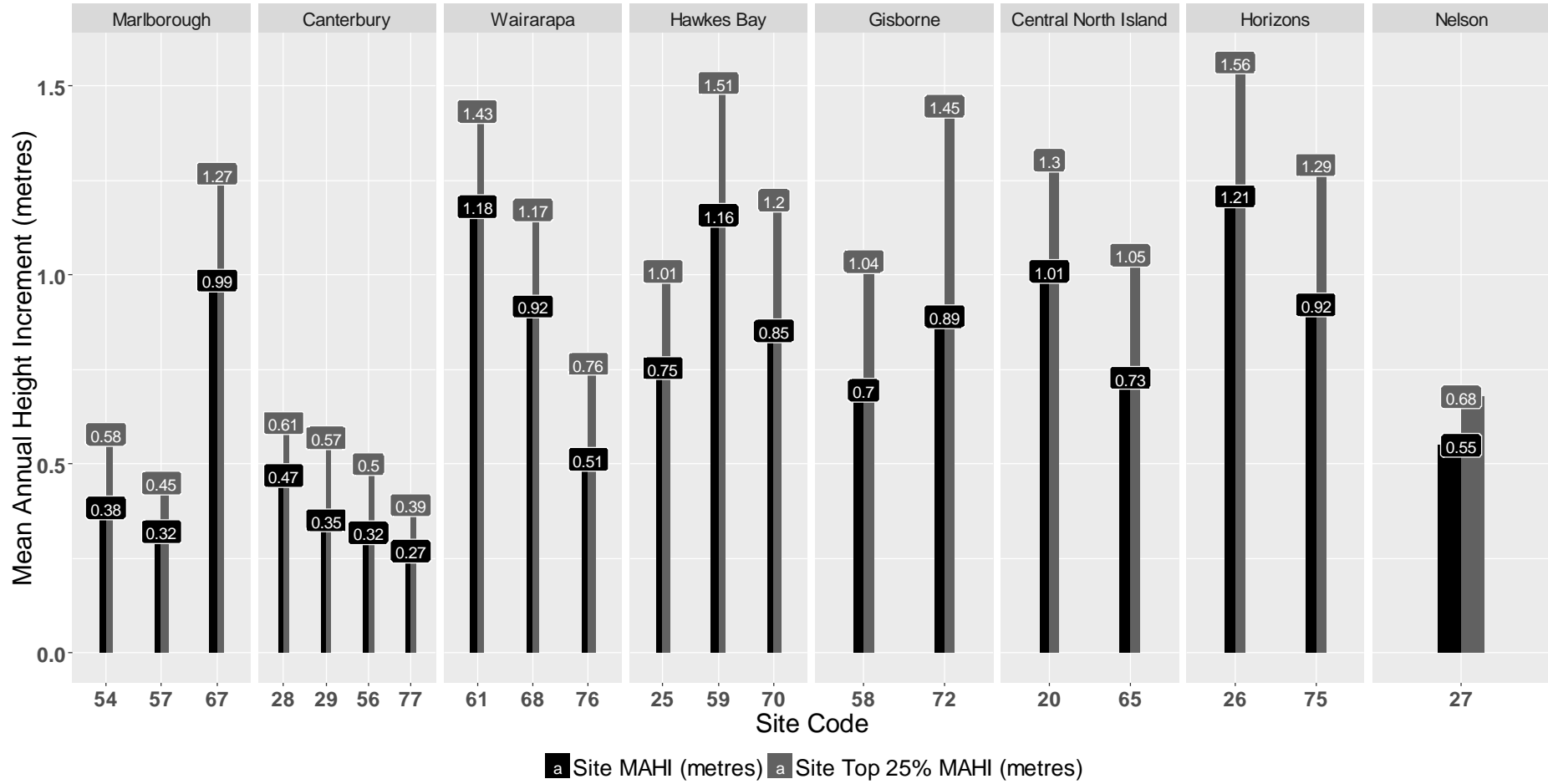


NZDFI *Eucalyptus macrorhyncha* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage Difference
Marlborough	54	0.38	0.58	0.20	53%
	57	0.32	0.45	0.13	41%
	67	0.99	1.27	0.28	28%
Canterbury	28	0.47	0.61	0.14	30%
	29	0.35	0.57	0.22	63%
	56	0.32	0.50	0.18	56%
	77	0.27	0.39	0.12	44%
Wairarapa	61	1.18	1.43	0.25	21%
	68	0.92	1.17	0.25	27%
	76	0.51	0.76	0.25	49%
Hawkes Bay	25	0.75	1.01	0.26	35%
	59	1.16	1.51	0.35	30%

	70	0.85	1.20	0.35	41%
Gisborne	58	0.70	1.04	0.34	49%
	72	0.89	1.45	0.56	63%
Central North Island	20	1.01	1.30	0.29	29%
	65	0.73	1.05	0.32	44%
Horizons (Manawatu/Tararua and Rangitikei)	26	1.21	1.56	0.35	29%
	75	0.92	1.29	0.37	40%
Nelson	27	0.55	0.68	0.13	23%

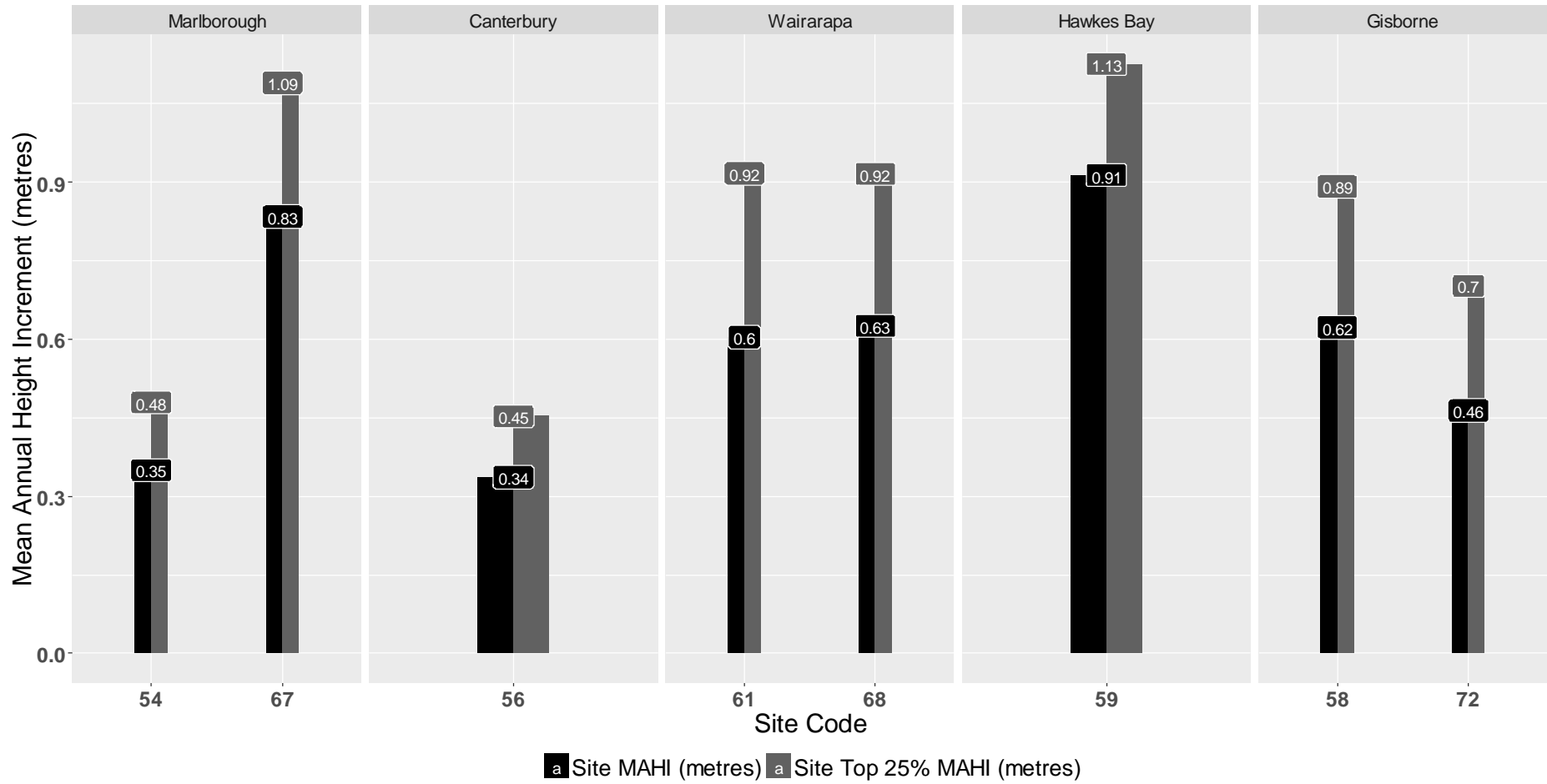
NZDFI *Eucalyptus macrorhyncha* trials - Mean Annual Height Increment (MAHI) by Site



NZDFI *Eucalyptus notabilis* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage Difference
Marlborough	54	0.35	0.48	0.13	37%
	67	0.83	1.09	0.26	31%
Canterbury	56	0.34	0.45	0.11	32%
Wairarapa	61	0.60	0.92	0.32	53%
	68	0.63	0.92	0.29	46%
Hawkes Bay	59	0.91	1.13	0.22	24%
Gisborne	58	0.62	0.89	0.27	44%
	72	0.46	0.70	0.24	52%

NZDFI *Eucalyptus notabilis* trials - Mean Annual Height Increment (MAHI) by Site

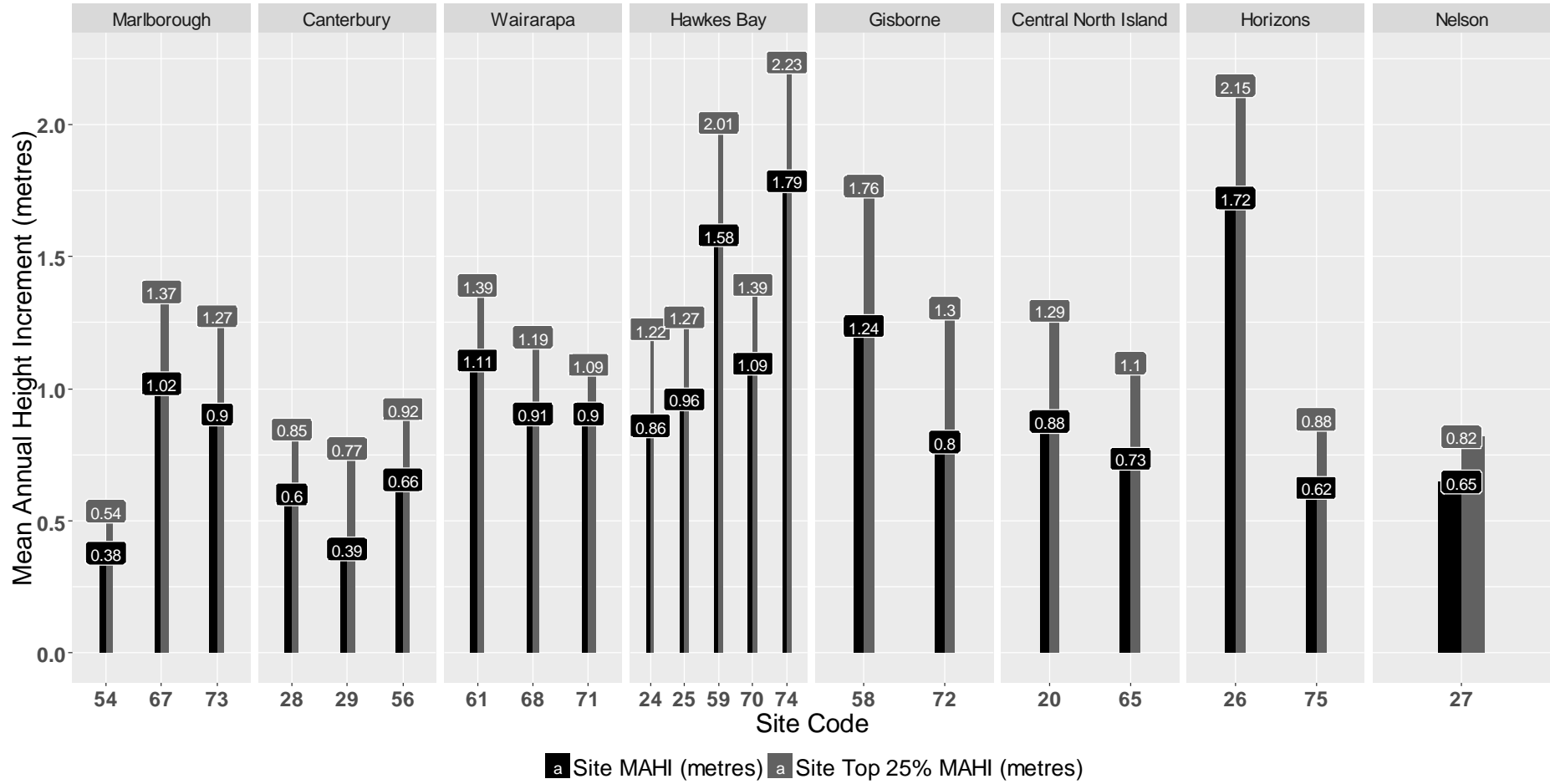


NZDFI *Eucalyptus quadrangulata* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage Difference
Marlborough	54	0.38	0.54	0.16	42%
	67	1.02	1.37	0.35	34%
	73	0.90	1.27	0.37	41%
Canterbury	28	0.60	0.85	0.25	42%
	29	0.39	0.77	0.38	97%
	56	0.66	0.92	0.26	39%
Wairarapa	61	1.11	1.39	0.28	25%
	68	0.91	1.19	0.28	31%
	71	0.90	1.09	0.19	21%
Hawkes Bay	24	0.86	1.22	0.36	42%
	25	0.96	1.27	0.31	32%
	59	1.58	2.01	0.43	27%

	70	1.09	1.39	0.29	27%
	74	1.79	2.23	0.44	25%
Gisborne	58	1.24	1.76	0.52	42%
	72	0.80	1.30	0.50	63%
Central North Island	20	0.88	1.29	0.41	47%
	65	0.73	1.10	0.37	51%
Horizons (Manawatu/Tararua and Rangitikei)	26	1.72	2.15	0.43	25%
	75	0.62	0.88	0.26	42%
Nelson	27	0.65	0.82	0.17	26%

NZDFI *Eucalyptus quadrangulata* trials - Mean Annual Height Increment (MAHI) by Site

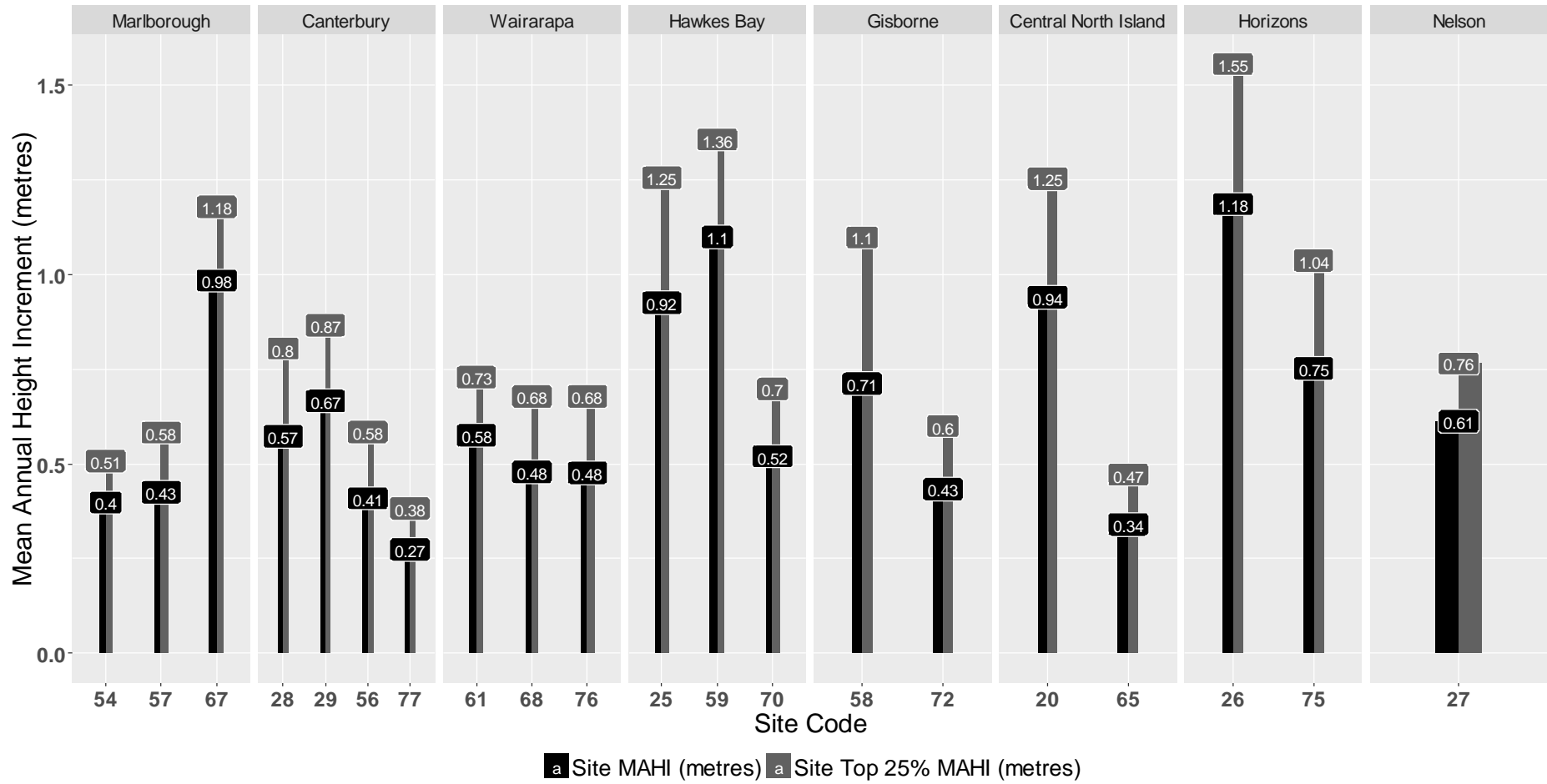


NZDFI *Eucalyptus tricarpa* trials – Mean Annual Height Increment (MAHI) by site

Region	Site Code	MAHI (meters per year)	Top 25% MAHI (meters per year)	Difference	Percentage Difference
Marlborough	54	0.40	0.51	0.11	28%
	57	0.43	0.58	0.15	35%
	67	0.98	1.18	0.19	19%
Canterbury	28	0.57	0.80	0.23	40%
	29	0.67	0.87	0.20	30%
	56	0.41	0.58	0.17	41%
	77	0.27	0.38	0.11	41%
Wairarapa	61	0.58	0.73	0.15	26%
	68	0.48	0.68	0.20	42%
	76	0.48	0.68	0.20	42%
Hawkes Bay	25	0.92	1.25	0.32	35%
	59	1.10	1.36	0.26	24%

	70	0.52	0.70	0.18	35%
Gisborne	58	0.71	1.10	0.39	55%
	72	0.43	0.60	0.17	40%
Central North Island	20	0.94	1.25	0.31	33%
	65	0.34	0.47	0.13	38%
Horizons (Manawatu/Tararua and Rangitikei)	26	1.18	1.55	0.37	31%
	75	0.75	1.04	0.29	39%
Nelson	27	0.61	0.76	0.15	25%

NZDFI *Eucalyptus tricarpa* trials - Mean Annual Height Increment (MAHI) by Site



Appendix Four:

**NZDFI Permanent Sample Plot (PSP) summary
Number of PSPS by Species**

NZDFI PSP SUMMARY - NUMBER OF PSPS BY SPP

Spp	Establishment Year								Total	
	2003	2004	2005	2006	2007	2009	2010	2011		2012
E.argophloia Total							2	3		5
E.blaxlandii Total				1						1
E.bosistoana Total	2		1		1	8	5	17	5	39
E.camaldulensis Total								16		16
E.cladocalyx Total					1			12	2	15
E.globoidea Total		2	2	1	1		3	23		32
E.globoidea/bosistoana Total	1									1
E.longifolia Total								12		12
E.macrorhyncha Total			2					17		19
E.quadrangulata Total					1		3	28		32
E.quadrangulata/bosistoana Total								1		1
E.Tricarpa Total								13		13
E.notabilis Total								4		4

E.eugenioides Total									9		9
E.cornuta Total									3		3
E.saligna Total									1		1
P.radiata Total									4		4
Total	3	2	5	2	4	8	13	163	7		207