

**Table 3.** Duncan's test for mean comparisons of morphological characters among of *Atriplex hortensis*.

Population	Mean total soluble solids (SE) brix %	Mean chlorophyll content (SE) SPAD	Mean number of leaf per plant (SE)	Mean Plant height (SE) cm	Mean leaf area (SE) cm <sup>2</sup>	Mean leaf length (SE) cm	Mean leaf width (SE) cm
Khardong	9.77 <sup>b</sup> (0.51)	53.27 <sup>abc</sup> (5.13)	23.67 <sup>abc</sup> (2.49)	24.74 <sup>d</sup> (1.73)	25.17 <sup>ab</sup> (2.49)	7.80 <sup>abc</sup> (0.53)	5.25 <sup>ab</sup> (1.37)
Tangyar	8.87 <sup>abc</sup> (0.40)	53.45 <sup>abc</sup> (3.45)	27.17 <sup>abc</sup> (1.93)	21.51 <sup>bcd</sup> (1.50)	29.59 <sup>abc</sup> (2.09)	8.90 <sup>bc</sup> (0.45)	5.56 <sup>abc</sup> (1.21)
Gonpa	9.22 <sup>ab</sup> (0.29)	47.25 <sup>bcd</sup> (3.84)	24.00 <sup>bcd</sup> (3.19)	18.48 <sup>d</sup> (1.40)	23.83 <sup>bc</sup> (2.15)	6.78 <sup>abc</sup> (0.48)	4.82 <sup>abc</sup> (1.38)
Khungru	8.56 <sup>abc</sup> (0.31)	51.03 <sup>ab</sup> (3.31)	26.64 <sup>abc</sup> (2.25)	23.15 <sup>abc</sup> (1.52)	29.89 <sup>ab</sup> (2.13)	8.63 <sup>ab</sup> (0.43)	5.60 <sup>a</sup> (1.38)
Aghyam	9.04 <sup>ab</sup> (0.67)	52.25 <sup>abc</sup> (3.36)	27.48 <sup>abc</sup> (3.72)	23.37 <sup>cd</sup> (1.82)	31.42 <sup>abc</sup> (3.59)	8.51 <sup>abc</sup> (0.72)	5.89 <sup>abc</sup> (1.60)
Chiktan	8.48 <sup>abc</sup> (0.55)	70.60 <sup>bcd</sup> (4.67)	37.93 <sup>bc</sup> (5.43)	25.97 <sup>bcd</sup> (2.25)	46.28 <sup>bc</sup> (8.48)	11.46 <sup>bc</sup> (1.32)	6.43 <sup>abc</sup> (2.14)
Shenam	8.69 <sup>abc</sup> (0.20)	52.67 <sup>bcd</sup> (1.95)	24.91 <sup>ab</sup> (1.48)	23.74 <sup>d</sup> (1.20)	28.32 <sup>abc</sup> (1.75)	8.56 <sup>abc</sup> (0.62)	5.43 <sup>abc</sup> (1.42)
Murghi	8.22 <sup>abc</sup> (0.30)	52.87 <sup>abc</sup> (5.38)	32.87 <sup>abc</sup> (4.07)	27.35 <sup>cd</sup> (2.43)	33.09 <sup>bc</sup> (2.79)	8.60 <sup>abc</sup> (0.42)	6.30 <sup>abc</sup> (1.33)
Panamik	9.87 <sup>ab</sup> (0.91)	43.19 <sup>d</sup> (4.47)	18.27 <sup>d</sup> (1.75)	15.36 <sup>d</sup> (1.97)	20.22 <sup>abc</sup> (3.20)	6.39 <sup>d</sup> (0.60)	4.97 <sup>c</sup> (2.35)
Hunder	8.43 <sup>ab</sup> (0.33)	58.09 <sup>abc</sup> (3.65)	30.03 <sup>abc</sup> (2.62)	25.30 <sup>cd</sup> (1.95)	31.77 <sup>abc</sup> (2.47)	8.69 <sup>abc</sup> (0.52)	5.89 <sup>abc</sup> (1.60)
Udmaru	8.85 <sup>a</sup> (0.33)	59.51 <sup>abc</sup> (3.71)	23.18 <sup>cd</sup> (1.90)	25.46 <sup>d</sup> (1.24)	28.06 <sup>dc</sup> (2.32)	8.17 <sup>abc</sup> (0.50)	5.45 <sup>bc</sup> (1.40)
Diskit	9.11 <sup>bc</sup> (0.30)	57.50 <sup>a</sup> (4.13)	28.77 <sup>a</sup> (2.76)	21.87 <sup>a</sup> (1.48)	30.64 <sup>a</sup> (3.35)	8.74 <sup>a</sup> (0.64)	5.61 <sup>a</sup> (1.97)
Ackchamal	8.75 <sup>ab</sup> (0.37)	53.78 <sup>abc</sup> (5.96)	22.50 <sup>ab</sup> (2.89)	16.44 <sup>ab</sup> (1.54)	23.41 <sup>ab</sup> (2.32)	7.53 <sup>abc</sup> (0.52)	4.85 <sup>a</sup> (1.23)
Paskum	9.25 <sup>abc</sup> (0.50)	65.16 <sup>cd</sup> (4.50)	26.34 <sup>abc</sup> (3.08)	23.60 <sup>cd</sup> (1.44)	28.81 <sup>abc</sup> (3.10)	8.18 <sup>abc</sup> (0.59)	5.45 <sup>abc</sup> (1.88)
Soad	10.25 <sup>c</sup> (0.51)	55.24 <sup>abc</sup> (4.62)	28.71 <sup>bc</sup> (2.13)	26.68 <sup>d</sup> (2.17)	36.22 <sup>c</sup> (4.14)	9.61 <sup>cd</sup> (0.71)	6.46 <sup>c</sup> (1.85)

Population	Mean leaf thickness (SE) mm	Mean dry weight (SE) g	Mean shoot diameter (SE) mm	Mean petiole length (SE) cm	Mean leaf yield per plant (SE) g	Mean primary branches per plant (SE)	Mean moisture content (SE) %
Khardong	.60 <sup>a</sup> (0.02)	12.46 <sup>bc</sup> (0.56)	4.66 <sup>abc</sup> (0.25)	2.59 <sup>a</sup> (0.16)	16.33 <sup>abc</sup> (2.24)	26.72 <sup>bc</sup> (1.67)	87.54 <sup>ab</sup> (0.56)
Tangyar	.64 <sup>a</sup> (0.02)	12.04 <sup>abc</sup> (0.20)	4.87 <sup>abc</sup> (0.21)	2.80 <sup>ab</sup> (0.12)	18.91 <sup>abc</sup> (2.11)	26.23 <sup>abc</sup> (1.38)	87.96 <sup>abc</sup> (0.20)
Gonpa	.64 <sup>a</sup> (0.08)	12.27 <sup>ab</sup> (0.36)	4.07 <sup>c</sup> (0.23)	2.58 <sup>ab</sup> (0.12)	13.99 <sup>c</sup> (2.02)	23.44 <sup>abc</sup> (1.55)	87.73 <sup>bc</sup> (0.36)
Khungru	.62 <sup>a</sup> (0.03)	11.74 <sup>bc</sup> (0.16)	4.67 <sup>a</sup> (0.18)	2.58 <sup>a</sup> (0.11)	18.82 <sup>ab</sup> (1.90)	24.64 <sup>ab</sup> (1.49)	88.26 <sup>ab</sup> (0.16)
Aghyam	.71 <sup>a</sup> (0.09)	12.31 <sup>abc</sup> (0.28)	4.83 <sup>abc</sup> (0.39)	2.62 <sup>a</sup> (0.20)	20.58 <sup>abc</sup> (3.33)	29.47 <sup>abc</sup> (1.13)	87.69 <sup>abc</sup> (0.28)
Chiktan	.61 <sup>a</sup> (0.06)	11.95 <sup>abc</sup> (0.47)	4.85 <sup>abc</sup> (0.31)	3.76 <sup>ab</sup> (0.50)	19.60 <sup>abc</sup> (2.89)	20.40 <sup>abc</sup> (2.01)	88.05 <sup>abc</sup> (0.47)
Shenam	.64 <sup>a</sup> (0.02)	11.94 <sup>c</sup> (0.18)	4.80 <sup>ab</sup> (0.14)	2.78 <sup>ab</sup> (0.09)	18.54 <sup>abc</sup> (1.68)	22.98 <sup>ab</sup> (0.97)	88.06 <sup>a</sup> (0.18)
Murghi	.60 <sup>a</sup> (0.03)	11.96 <sup>bc</sup> (0.34)	5.08 <sup>abc</sup> (0.33)	3.04 <sup>ab</sup> (0.14)	23.44 <sup>abc</sup> (4.03)	23.00 <sup>c</sup> (2.99)	88.04 <sup>ab</sup> (0.34)
Panamik	.67 <sup>a</sup> (0.05)	12.63 <sup>abc</sup> (0.24)	4.27 <sup>abc</sup> (0.33)	2.47 <sup>c</sup> (0.24)	11.61 <sup>abc</sup> (1.98)	23.93 <sup>a</sup> (1.62)	87.37 <sup>abc</sup> (0.24)
Hunder	.66 <sup>a</sup> (0.04)	11.50 <sup>abc</sup> (0.23)	5.38 <sup>abc</sup> (0.27)	2.81 <sup>ab</sup> (0.16)	26.84 <sup>abc</sup> (5.73)	24.53 <sup>ab</sup> (1.17)	88.50 <sup>abc</sup> (0.23)

Udmaru	.60 <sup>a</sup> (0.03)	12.64 <sup>abc</sup> (0.24)	4.67 <sup>bc</sup> (0.18)	2.98 <sup>ab</sup> (0.17)	17.54 <sup>bc</sup> (1.84)	20.76 <sup>ab</sup> (1.42)	87.36 <sup>abc</sup> (0.24)
Diskit	.59 <sup>a</sup> (0.01)	12.01 <sup>c</sup> (0.36)	4.83 <sup>ab</sup> (0.25)	2.66 <sup>a</sup> (0.15)	22.25 <sup>a</sup> (3.75)	24.51 <sup>abc</sup> (2.18)	87.99 <sup>a</sup> (0.36)
Ackchamal	.67 <sup>a</sup> (0.03)	11.08 <sup>a</sup> (0.38)	4.22 <sup>ab</sup> (0.33)	2.71 <sup>ab</sup> (0.21)	15.12 <sup>ab</sup> (2.51)	23.22 <sup>ab</sup> (1.50)	88.92 <sup>c</sup> (0.38)
Pakskum	.64 <sup>a</sup> (0.02)	12.03 <sup>abc</sup> (0.20)	4.67 <sup>abc</sup> (0.28)	2.76 <sup>ab</sup> (0.15)	19.12 <sup>abc</sup> (2.83)	21.58 <sup>ab</sup> (1.30)	87.97 <sup>abc</sup> (0.20)
Soad	.62 <sup>a</sup> (0.02)	11.43 <sup>ab</sup> (0.28)	5.28 <sup>c</sup> (0.29)	3.22 <sup>b</sup> (0.27)	22.76 <sup>bc</sup> (2.47)	25.81 <sup>abc</sup> (2.83)	88.58 <sup>bc</sup> (0.28)

Population	Inflorescence length per plant (SE) cm	Number of inflorescence per plant (SE)	Seed yield per plant (SE) g	Seed size (SE) mm	Seed weight (SE) g
Khardong	16.33 <sup>abc</sup> (2.24)	20.17 <sup>a</sup> (2.07)	48.60 <sup>ab</sup> (7.24)	2.05 <sup>abcd</sup> (.06)	2.91 <sup>ab</sup> (.13)
Tangyar	18.91 <sup>abc</sup> (2.11)	22.33 <sup>abc</sup> (1.39)	41.99 <sup>a</sup> (4.12)	1.99 <sup>ab</sup> (.04)	2.56 <sup>ab</sup> (.10)
Gonpa	13.99 <sup>abc</sup> (2.02)	23.15 <sup>abc</sup> (1.16)	41.98 <sup>ab</sup> (6.04)	2.03 <sup>abcd</sup> (.05)	2.89 <sup>ab</sup> (.38)
Khungru	18.82 <sup>abc</sup> (1.90)	25.27 <sup>abc</sup> (1.15)	42.02 <sup>a</sup> (4.63)	1.99 <sup>abcd</sup> (.05)	2.55 <sup>ab</sup> (.08)
Aghyam	20.58 <sup>bc</sup> (3.33)	25.40 <sup>abcd</sup> (1.86)	67.39 <sup>a</sup> (12.22)	2.20 <sup>ab</sup> (.06)	3.12 <sup>ab</sup> (.16)
Chiktan	19.60 <sup>abc</sup> (2.89)	27.07 <sup>abc</sup> (2.07)	45.36 <sup>a</sup> (6.34)	1.91 <sup>bcd</sup> (.07)	2.64 <sup>ab</sup> (.14)
Shenam	18.54 <sup>abc</sup> (1.68)	24.10 <sup>abc</sup> (1.07)	47.56 <sup>a</sup> (3.96)	2.09 <sup>cd</sup> (.03)	2.80 <sup>b</sup> (.07)
Murgi	23.44 <sup>bc</sup> (4.03)	29.47 <sup>abcd</sup> (1.13)	53.88 <sup>b</sup> (9.92)	1.97 <sup>d</sup> (.07)	2.56 <sup>ab</sup> (.16)
Panamik	11.61 <sup>bc</sup> (1.98)	20.40 <sup>cd</sup> (2.01)	32.25 <sup>a</sup> (6.93)	2.07 <sup>a</sup> (.06)	2.66 <sup>ab</sup> (.12)
Hunder	26.84 <sup>c</sup> (5.73)	23.27 <sup>abc</sup> (1.59)	54.09 <sup>ab</sup> (7.53)	2.03 <sup>bcd</sup> (.04)	2.68 <sup>ab</sup> (.09)
Udmaru	17.54 <sup>d</sup> (1.84)	23.18 <sup>d</sup> (1.08)	44.11 <sup>ab</sup> (5.45)	2.19 <sup>ab</sup> (.04)	3.40 <sup>ab</sup> (.11)
Diskit	22.25 <sup>a</sup> (3.75)	23.15 <sup>ab</sup> (1.58)	45.07 <sup>a</sup> (7.42)	2.10 <sup>abcd</sup> (.05)	2.59 <sup>ab</sup> (.10)
Ackchamal	15.12 <sup>ab</sup> (2.51)	24.33 <sup>abcd</sup> (1.63)	36.06 <sup>a</sup> (7.73)	2.02 <sup>abc</sup> (.07)	2.45 <sup>a</sup> (.14)
Pakskum	19.12 <sup>abc</sup> (2.83)	20.33 <sup>ab</sup> (1.35)	38.44 <sup>a</sup> (3.75)	1.98 <sup>ab</sup> (.03)	2.73 <sup>ab</sup> (.18)
Soad	22.76 <sup>c</sup> (2.47)	25.86 <sup>bcd</sup> (2.65)	45.45 <sup>a</sup> (5.56)	2.20 <sup>d</sup> (.07)	4.15 <sup>c</sup> (.94)