Table 2 Effect of herbicides on plant height at different time interval on direct seeded rice cultivation at Chitwan during 2024

Treatments	Plant height (cm)					
	30 DAS	45 DAS	60 DAS	75 DAS	90 DAS	at Harvest
Weedy Check	44.7^{d}	52.9^{d}	65.1^{c}	81.0^{c}	85.9^{c}	87.4^{c}
Weedfree	49.5^{ab}	66.6^{a}	75.3^{a}	91.3^{a}	93.2^{a}	93.4^{a}
Pendimethalin	45.3^{cd}	66.1^{a}	71.7^{b}	81.8^{c}	86.4^{c}	91.1^{b}
Pretilachlor	46.0^{bcd}	64.8^{ab}	72.1^{b}	88.5^{b}	91.4^{ab}	92.2^{a}
Bispyribac sodium	45.7^{cd}	60.7^{c}	73.0^{b}	89.0^{b}	90.8^{b}	92.9^{a}
Pendi+2,4-D	43.5^{d}	61.6^{c}	70.5^{b}	86.4^{b}	90.7^{b}	91.5^{b}
Pretilachlor+2,4-D	40.5^{e}	60.6^{c}	71.5^{b}	88.1^{b}	91.5^{ab}	92.5^{a}
Oxadiargyl	48.3^{bc}	68.8^{a}	74.0^{a}	93.0^{a}	95.1^{a}	93.0^{a}
Bispyribac Sodium+ 2,4-D	50.5^{a}	73.5^{a}	76.5^{a}	94.0^{a}	95.7^{a}	93.4^{a}
SEm±	0.97	1.85	1.03	1.42	1.06	0.59
CV%	6.34	8.67	4.28	4.83	3.49	1.93
Mean	46.00	63.96	72.19	88.12	91.19	91.93

Note: DAS= Days after sowing, SEm = Standard error of mean and CV= Coefficient of variation

3.2 Dry matter production (g/m^2)

Dry matter production increased progressively from 30 to 90 DAS in all treatments. The weedy check had the lowest dry matter at every sampling date. Bispyribac sodium was numerically greatest at 30 DAS and 75 DAS, whereas bispyribac sodium + 2,4-D was numerically greatest at 45, 60, and 90 DAS. At 90 DAS, bispyribac sodium and bispyribac sodium + 2,4-D were in the same statistical group and had dry matter values of 2093.4 g/m^2 and 2120.8 g/m^2, respectively. The treatment differences and grouping letters are provided in Table 3.

Table 3 Effect of herbicides on dry matter production at different time interval on direct seeded rice cultivation at Chitwan during 2024

Treatments	Dry matter production (g/m^2)				
	30 DAS	45 DAS	60 DAS	75 DAS	90 DAS
Weedy Check	28.5^{d}	51.2^{d}	164.5^{c}	839.4^{d}	1114.5^{d}
Weedfree	44.3^{bc}	74.7^{ab}	357.7^{ab}	1343.5^{ab}	1786.6^{b}
Pendimethalin	40.7^{cd}	57.4^{cd}	256.9^{bc}	1210.7^{bc}	1670.6^{bc}
Pretilachlor	40.8^{cd}	70.4^{ab}	274.1^{bc}	1325.1^{ab}	1794.7^{b}
Bispyribac sodium	51.8^{a}	69.4^{ab}	342.2^{ab}	1431.7^{a}	2093.4^{a}
Pendi+2,4-D	46.3^{ab}	65.4^{bc}	315.9^{ab}	1147.4^{c}	1490.4^{c}
Pretilachlor+2,4-D	48.0^{ab}	56.7^{cd}	251.7^{bc}	1221.9^{bc}	1719.2^{bc}
Oxadiargyl	42.5^{bc}	73.5^{ab}	351.5^{ab}	1240.6^{bc}	1680.7^{bc}
Bispyribac Sodium+ 2,4-D	44.4^{bc}	76.0^{a}	380.0^{a}	1410.0^{a}	2120.8^{a}
SEm±	2.04	2.82	21.55	55.98	95.15
CV%	14.23	12.79	21.60	13.53	16.61
Mean	43.03	66.08	299.40	1241.14	1718.99

Note: Treatment means followed by the same letter (s) within the column are non-significantly different among each other at 5% level of significance. DAS= Days after sowing, SEm = Standard error of mean and CV= Coefficient of variation