

Addition of gypsum significantly increased P, K and Ca and decreased N and Na contents in grain and straw of barley compared to without gypsum (Table 1). Among the varieties BL-2 showed significantly higher content of P, K and Ca in grain and straw compared to other varieties. The superiority of BL-2 can be attributed to more K and less Na content resulting into wider K/Na ratio than to other varieties. Similar results were reported by Singh and Singh (1990) for barley varieties. Addition of gypsum significantly decreased pH but increased EC of sodic soil. Manchanda *et al.* (1985) and Singh & Abrol (1988) also reported similar results.

It is concluded that addition of gypsum @ 1/2 GR gave significantly higher yields compared to control in sodic soil. Barley variety BL-2 is relatively more tolerant than other varieties in sodic soil irrigated with high RSC waters.

References

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