

Performance of Selected Plants in F2 and F3 Generation for Yield and Yield Component Characters of New Plant Type Rice Genotypes at Aerobic Rice Culture

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Abstract	<p>Using the variability present in the F2 population originating from New Plant Type (NPT) rice population, selection was practiced for high grain yield. Expected response to selection was estimated in F3 generation and compared with F2 generation. The F3 generation showed significant positive selection response for plant height, number of grain per panicle, panicles length, and flowering (days to 50% flowering), thus indicating the effectiveness of selection for these characters. This indicates the effectiveness of selection for these characters in F2 generation. The correlation and regression coefficient between F2 and F3 generation was significant for these characters. But, grain yield per clump showed non significant response in F3 generation. The correlation and regression coefficient between F2 and F3 generation was non significant for grain yield per clump, which indicates straight selection for this character during early generation (F2) may not be effective. Selection for plant height, number of grain per panicle, panicles length, and flowering (days to 50% flowering) can be made in the early segregating generation. Grain yield per clump is not effective for selection in early generation.</p>
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