

VARIETAL TRIAL ON DIFFERENT EXOTIC ROSE CULTIVARS UNDER THE CLIMATIC CONDITIONS OF D.I.KHAN.

ABDUL SABOOR KHATTAK, JALAL-UD-DIN BALOCH
AND MUHAMMAD MUNIR

Department of Horticulture, Faculty of Agriculture, Gomal University, D.I.Khan.

ABSTRACT

The evaluation trial on twenty exotic rose cultivars was made in D.I.Khan to study their performance and adaptability to select the best ones for this area. shocking Blue, Doris Tysterman, Day Dream, Red Sex, Chalas Perfume, Carebia, and Alexendra were some most promising cvs. and performed well.

Maximum days (24) were taken by "Smooky", while minimum days (18) were recorded in "Shocking Blue" to sprouting. The cv. Doris Tysterman was the tallest (107.33 cm) one. Maximum flowers/month (10) were bloomed by "Day Dream". The cultivar Smooky faded after (7) days and was also dense with 7 branches/plant. Maximum flower size (11.73 cm) was recorded in "Chalas Perfume". Big Purple produced greater number of petals (58) while minimum number of petals (20) were counted in "Cocktail". Among all cultivars "Chalas Perfume" was very fragrant.

INTRODUCTION

Introduction and selection are very old and important methods for increasing the population of a certain plant. Through these methods many cultivars of horticultural crops have been migrating from one area to the other. If the conditions of an area favour them, they succeed, otherwise, they fail.

Many scientists introduced and selected various rose varieties which performed best in their localities (Denchev and Groshkov, 1989; Kaminski and Tracz 1989; Tombolato *et al.*, 1990; Sohne, 1990; Collicutt, 1991; Ilsink, 1991; and Andersen *et al.*, 1992). Zieslin and Mor (1990) stated that light intensity is the most important factor affecting rose plant growth and flowering. Low light intensity and short duration of light period due to seasonal changes or shading result in low yield of roses. High intensity lightening, especially during periods of low solar radiation, increases the productivity and quality of flowers. Anderson (1991) studied 10 cultivars of English rose and reported that first flush of flowers occurred in mid-to late June, while second in early August. Vigorous