YIELD AND SUGAR ACCUMULATION PATTERN Fasini and his Co-workers [Taal RADUS All wing sugar beet a grow-

There has been controvertial statements relating to the grow

ing period of 8 months, gave the highest root and sugar yield. How SADIQUE MOHAMMAD, MIR HATAM Department of Agronomy, Agricultural University, Peshawar. gar content. Similary Parashar and

[3] reported that in any QNA bination of sowing and harves-

ting dates, the root yie'd was CAMHA TILIAHAN the growing period was

Faculty of Agriculture, Gomal University, D. I. Khan. val for sugar content and found active synthesis of sugar from the 10th

to 16 1st day of growth. From 16 1st day to the 182 nd day of grantedA

the sugar content remined practically constant. Jan [5] conducted Sugar beet samples were harvested at weekly interval, 4,3,2 and I week before harvest for determining the root yield and sucrose accumulation pattern during two consecutive years, (1979-80 and 1980-81). Sugar beet accumulated 1170 and 2380 kg/ha of root weight at the rate of 39 and 79.3 kg/ha/ day during the last month before harvest. Total suger increased in a similar pattern but dropped due to loss in sucrose content at harvest. Sugar content gradually increased towards maturity and then declined. In massing and the pattern of sugar beet yield accumulation and sugar content, par-

ticulary in the last month before harvest

Introduction

Sugar beet (Beta vulgaris L.) a herbaceous dicotyledon, stands second to sugar cane in respect of sugar production and provides four percent of the total world sugar. It contains 30 percent more sugar than sugar cane. North West Frontier Province is the only region in Pakistan suitable for the cultivation of sugar beet. In this region sugar beet is grown as winter crop well fitted to the cropping pattern of the area. Sugar beet is ready for crushing after the sugar cane season is over and thus prolongs the processing period of the sugar factories. This is why no sugar manufacturing unit in the country can turn annually as much sugar similar to the Peshawar Valley. harvested one each at 1) four weeks 2) three weeks 3) two weeks and