variety DL 74-1 was recommended by Pulse Workshop for cultivation in Central Region. This year Kharıf workshop identified varieties 4-84 and 4-64 as promising and recommended them for testing in farmers' fields.

(d) The new varieties of arhar developed by IARI have shown yield potential of about 25 q/ha under moderate level of water and fertilizer application.

New High Yielding and short duration seeds of Pulses, Soyabean

1971. SHRI BHOGENDRA JHA: Will the Minister of AGRICULTURE be pleased to state:

- (a) whether the IARI or other agricultural scientists of the country have developed new high yielding and short duration strains of pulses, beans including soyabeans and other protein containing eatables and seeds for edible oils;
 - (b) if so, details thereabout; and
- (c) the steps being taken for mass production of the same?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND RURAL RECONSTRUCTION (SHRI R. V. SWAMINATHAN). (a) Yes, Sir.

(b) A number of high yielding and short duration varieties of pulses, soyabean and edible oilseeds been developed. In pulses several short duration varieties like Pusa Baisakhi, PS-16 of Mung, T-9 and PS-1 of Urd, C-152 of Cowpea and Agati, Prabhat, UPAS-120, DL 74-I of Arhar 33866 and Hans of peas JG-62 Annigeri of Chickpea have been developed. The availability of short duration varieties has made the cultivation of summer Mung Arharwheat rotation and intercropping of arhar with mung or cowpeas, possible. In soyabean varieties such as Bragg. Punjab-2, Clark-63 and Lee have

been observed to be suitable in different areas of the country. A number of improved varieties have been developed in other seeds for edible oils in groundnut mention may be made of TMV-10, M-13 and J-113. In Safflower a variety 116-4-2 with higher oil content has been developed. T-27 of Tarmira, Sangam of Toria and Prakash of Raya are also some of the improved varieties of edible oilseeds.

seeds of these improved (c) The and short duration varieties is being multiplied by I.C.A.R. Institutes, Agricultural Universities National Corporation and State Seed Seed Corporation under the National Seed Project. With a view to popularise the existing production technology with the farmers both in dryland and irrigated areas, recently (1979-80) a Project namely "Intensification of Research and Training in Pulses Oilseeds" have been put into operation by the I.C.A.R. The efforts are being made to increase pulse and oilseed production by popularising the high yielding varieties along with appropriate production technology and by introducing pulses and oilseeds cultivation in intensive cropping systems.

Training of Foreign Students at Anand Dairy

1972 SHRI P. RAJAGOPAL NAIDU: Will the Minister of AGRI-CULTURE be pleased to state:

- (a) whether the students from other countries are being trained at Anand Dairy Development; and
- (b) whether other countries are approaching the N.D.D.B. seeking its advice on law to develop their dairy industry?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND RURAL RECONSTRUCTION (SHRI R. V. SWAMINATHAN): (a) Yes, Sir. National Dairy Develop-

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ment Board does not conduct academic courses but organises training programmes which are meant to acquaint the participants with Dairy Development based on Anand pattern.

(b) Some countries have approached National Dairy Development Board seeking its advice to develop their dairy industry.

Buffer Stocks of Foodgrains and Sugar

P. 1973. SHRI RAJAGOPAL NAIDU: Will the Minister of AGRI-CULTURE be pleased to state:

- (a) whether the Government are intending to build up a buffer stock of of foodgrains as a buffer stock; and
- (b) whether the Government are intending to build up a buffer stock of sugar?

THE MINISTER OF AGRICUL-TURE AND RURAL RECONSTRUC-TION AND IRRIGATION BIRENDRA SINGH RAO): (a) Government are considering to raise the buffer stock from the present level of 12 million tonnes to 15 million tonnes. This will be over and above the operational stocks which will be ranging between 3.5 to 8 million tonnes on different dates of the year.

(b) The production of sugar has come down steadily since the vear 1978-79. As against the total production of 64.62 lakh tonnes in 1977-78 and 58,44 laken tonnes in 1978-79, production during the season 1979-80 has been only about 39 lakh tonnes. The present situation is, therefore, not opportune for considering question of building buffer stock of sugar. The policy could, however, be reviewed at a future date when the circumstances are favourable for adopting the policy of buffer stocking.

Research on Quality and Production of Khandsari

P. RAJAGOPAL 1974. SHRI NAIDU: Will the Minister of AGRI-CULTURE be pleased to state:

- (a) whether any research is being carried on to improve the quality and production of khandsari; and
- results of latest re-(b) if so, the search?

THE MINISTER OF STATE THE MINISTRY OF AGRICULTURE AND RURAL RECONSTRUCTION (SHRI R. V. SWAMINATHAN): (a) Yes, Sir

(b) Research is a continuous process and the results of researches carried out by the National Sugar Institute, Kanpur to improve the quality and production of Khandsari is given in the attached statement.

Statement

Results of latest researches carried out by the National Sugar Institute, Kanpur to improve the quality and production of Khandsari sugar:

- steel 3-roller (i) Design of crusher (non-hydraulic) outmoded: replace the old wooden crusher.
- (ii) Design of 6-roller hydraulically loaded crusher with 2 sets of Knives and cane carwhich improved the rier, crushing rate and the sugar extraction can be 80 to 82 per cent and the juice extraction 65 to 68 per cent.
- (iii) Introduction of centrifugal machine for purging rab (massecuits) in place of old traditional Khanchi system, being adopted earlier for separation of sugar from the mother liquor.