

**GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA**

UNSTARRED QUESTION NO:3743
ANSWERED ON:16.08.2000
NEW SEED FOR PRODUCTION OF PULSES
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Will the Minister of AGRICULTURE be pleased to state:

- (a) whether the research work is being carried out at various places in the country under the Indian Council of Agricultural Research;
- (b) if so, the names of the places where the same is being carried out under the above institution;
- (c) whether new seeds have been developed to increase the production of pulses in the last few years following the above research work;
- (d) if so, the names of such seeds and their per hectare production-rate; and
- (e) the quantum of production of above seeds likely to be available in current year?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (DR. DEBENDRA PRADHAN)

(a) Yes, Sir.

(b) At the national level, research on pulse crops is being carried out by Indian Institute of Pulses Research, Kanpur under Indian Council of Agricultural Research. In addition, four All India Coordinated Research Projects on Chickpea (Bengal gram), Pigeonpea (arhar), MULLaRP (mungbean, urdbean, lentil, lathyrus, rajmash and peas) and Arid Legumes (mothbean, guar, horsegram (Kulthi), cowpea (lobia) are also in operation with research centres located in different States.

(c) Yes, Sir.

(d) List of the improved varieties developed during the last five years along with their per hectare average yield is given at Annexure.

(e) The quantity of certified/quality seed of pulse crops produced during 1999-2000 and likely to be available during current year is 5.18 lakh quintals.

ANNEXURE

List of improved varieties of pulse crops released during the last five years

Name of variety/hybrid	Year of release	Yield q/ha	Area of adaptation	Remarks
Chickpea				
KWR 108	1995	20-25	NEPZ	Resistant to wilt, root rot
GNG 663 (Vardhan)	1995	24	NWPZ	Resistant to wilt
GPF 2	1995	21	NWPZ	Resistant to wilt and tolerant to Ascochyta
Pusa 362	1995	24	NWPZ	Bold seeded, tolerant to wilt
Pusa 391	1996	15-20	CZ	Drought tolerant, wilt resistant
GNG 469	1996	25-30	NWPZ	Resistant to wilt and root rot
Pant G-186	1996	20-25	Uttar Pradesh	-
DCP 92-3	1997	18-20	NWPZ	Resistant to wilt
KDG 1168 (Alok)	1997	20-25	NWPZ	Resistant to wilt and root rot
Vishal	1997	30-35	CZ	Resistant to wilt
PDG 3	1997	16-18	Punjab	Tolerant to pod borer
CSG 8962 (Karnal Channa-1)	1997	18-20	NWPZ	Resistant to wilt. Suitable for saline condition.
GCP 101 (Gujarat Gram-1)	1999	18-22	CZ	Tolerant to wilt

Pusa 1003 (Kabuli)	1999	18-20	NEPZ	Tolerant to wilt, bold seeded
BGD-72 (Pusa Pragati)	1999	20	CZ	Bold seeded, resistant to wilt and root rot, drought tolerant
BG 1053 (Pusa Chamatkar)	1999	20	NWPZ	Bold seeded and moderately resistant to root diseases.
JG-11	1999	18-22	SZ	Tolerant to Fusarium wilt
GCP 105	2000	18	NEPZ	Moderately resistant to wilt rot Pigeonpea
AL 201	1995	15	Punjab	Early maturing
BSMR 736	1996	12	Mahara	Resistant to sterility mosaic disease, Shtra wilt
Jawahar KM 7	1996	20	CZ	Tolerant to wilt and pod borer
PPH 4 (Hybrid)	1996	19	Punjab	-
COPH-1 (Hybrid) Nadu	1996	9	Tamil	Early maturing
COPH-2 (Hybrid) Nadu	1997	10	Tamil	Early maturing
Amar Pradesh to wilt	1997	16-20	Uttar	Resistant to sterility mosaic, tolerant
AKPH 4101 (Hybrid)	1997	20-22	CZ	Indeterminate to plant
Narendra Arhar-1 Pradesh	1997	20-22	Uttar	Resistant to SMD, tolerant to wilt
AKPH 2022 (Hybrid) shtra	1998	18-20	Mahara	-
Paras (H 82-1)	1998	15-20	Haryana	-
MA-3 (Malviya Vikalp)	1999	20-22	CZ	Moderately tolerant to wilt and pod fly
Durga (ICPL84031)	1999	18-20	Andhra Pradesh	-

Mungbean

Pusa 9072	1995	9	SZ	Tolerant to powdery mildew
Warangal-2	1995	14	Andhra	Suitable for kharif, rabi and summer
Madhira 295 Pradesh	1995	14	Andhra	-
LGG 407 Pradesh	1995	14	Andhra	Tolerant to yellow mosaic virus
LGG 450 Pradesh	1995	13	Andhra	Tolerant to yellow mosaic virus
JM 721 Pradesh	1996	12	Madhya	Tolerant to powdery mildew
ML 613	1996	13	Punjab	Resistant to yellow mosaic virus, bacterial and pod leaf spot
PDM 84-178 Pradesh	1996	8	Andhra	Tolerant to yellow mosaic virus and powdery mildew
TARM-1 6.5 (SZ) shtra	1996	12 (CZ)	Mahara	Resistant to powdery mildew
TARM 18 shtra	1996	12	Mahara	Resistant to powdery mildew
SML 134	1996	11	Punjab	Recommended for spring /summer
Pant Mung 4	1997	7	NEPZ	Resistant to yellow mosaic virus
(UPM 92-1)				
HUM-1 8 (SZ) SZ	1999	9 (CZ)	CZ and	Resistant to yellow mosaic virus
Co 6 Nadu	1999	10	Tamil	Resistant to yellow mosaic virus
PBM 2	2000	6	NEPZ	Resistant to yellow mosaic virus
Pusa 9531 to jassids and whitefly	2000	9	CZ	Resistant to yellow mosaic virus and tolerant
Pusa Bold-1 2000	2000	11	NWPZ	Resistant to yellow mosaic virus and (Vishal) tolerant to jassids and whitefly

Urdbean

WBU 108	1995	12	NWPZ, SZ	Tolerant to yellow mosaic virus
LBG 611	1995	14	Andhra Pradesh	Resistant to wilt
Mash 338	1996	8	Punjab	Resistant to yellow mosaic virus
Birsa Urd 1	1996	15	Bihar	Resistant to yellow mosaic virus
Mash 414	1996	9.5	Punjab	Tolerant to root rot
AKU-4	1996	10	Maharashtra	For rabi season
KBG 512	1996	7.5	Tamil Nadu	Tolerant to leaf spot and stem fly
Vamban-2	1997	8	Tamil Nadu	Resistant to yellow mosaic virus and tolerant to drought
Shekhar-1 (KU 301)	1997	13	SZ	Resistant to yellow mosaic virus and suitable for rabi season
TU 94-2	1999	15	SZ	Resistant to yellow mosaic virus, moderately resistant to powdery mildew and for rabi season
IPU 94-1 (Uttara)	1999	12	NWPZ, NEPZ	Resistant to yellow mosaic virus

KU 92-1	1999	10	NEPZ	Resistant to yellow mosaic virus, suitable for spring season
RBU 38 (Barkha)	1999	12.5	CZ and NEPZ	Resistant to Cercospora leaf spot, bold seeded
WBG 26	1999	9.5	SZ	Resistant to powdery mildew and yellow mosaic virus

Lentil

DPL 15 (Priya)	1995	15.5	NWPZ	Resistant to rust, tolerant to wilt and bold seeded
Pusa Vaibhav	1996	17.5	NWPZ	Resistant to rust and tolerant to pod (L 4147) borer
Garima (LH 82-6)	1996	14.5	Haryana	Tolerant to rust, wilt and blight, bold seeded
Narendra Masoor	1997	14	Uttar Pradesh	Resistant to rust, tolerant to wilt and -1 (NDL 92-1) bold seeded
DPL 62 (Sheri)	1997	17	NWPZ	Resistant to rust, tolerant to wilt and bold seeded
JL 3	1999	14.5	CZ	Resistant to wilt
IPL 81 (Noori)	2000	12.5	CZ	Tolerant to rust and bold seeded Fieldpea
DMR 7 (Alankar)	1996	23.5	NWPZ	Resistant to powdery mildew
Uttra (HFP 8909)	1996	22	NWPZ	Resistant to powdery mildew
KFP 144-1	1997	18	Uttar Pradesh	Resistant to powdery mildew
HUDP 15	1999	23-24	NEPZ	Resistant to powdery mildew (Malviya Matar 15)
DDR 23	2000	15.5	NEPZ	Resistant to powdery mildew

Lathyrus

Bio L 212 (Ratan)	1997	15	NEPZ	Low neurotoxin, suitable for Utera and drought prone conditions
Prateek	1999	13	Madhya Pradesh	Resistant to powdery mildew and tolerant to pod borer and low neurotoxin (0.07%)

Mothbean

RMO-225	1999	5-5.5	Rajasthan,	Drought tolerant
			Gujarat and Maharashtra	

FMM-96	1999	5-6	All moth	Suitable for light alluvium to heavy growing areas soils under rainfed conditions
CAZRI Moth-1	1999	5.5-6.5	All moth	Drought tolerant growing areas

Cowpea

GC-3	1999	10-11	SZ	Early maturing, suitable for arid and semi arid areas
Pusa Sampda	1999	9	NWPZ	Suitable for rainfed conditions

Horse gram

Palem-2	1996	8-9	Andhra Pradesh	Early maturity, suitable for rainfed conditions
AK-21	1999	8-8.5	NWPZ	Tolerant to anthracnose suitable for rainfed areas
Guar				

RGC-1003	1999	11	All guar	Suitable rainfed and well drained growing areas soils.
RGC-1002	1999	10	All guar	Suitable for rainfed conditions growing areas
RGC-986	1999	10	All guar	Suitable for rainfed conditions growing reas

SZ (South Zone) : Andhra Pradesh, Karnataka and Tamil Nadu
NEPZ (North Eastern Plain Zone) : Eastern Uttar Pradesh, Bihar, West Bengal and Orissa
CZ (Central Zone) : South West Uttar Pradesh, Madhya Pradesh, Maharashtra and Gujarat.
NWPZ (North Western Plain Zone) : Punjab, Haryana, Rajasthan, Delhi and Western Uttar Pradesh