Indian Potato Varieties and Their Salient Features

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ICAR-Central Potato Research Institute
Shimla – 171 001, HP, India
Printed: October 2014; 800 copies

Indian Potato Varieties and Their Salient Features
Revised and updated version of CPRI Technical Bulletin No. 78 (revised) - Indian potato varieties and their salient features by Vinod Kumar, SK Luthra, Jai Gopal and BP Singh 2011. 64p.

Editors : Vinod Kumar, SK Luthra, Vinay Bhardwaj and BP Singh

Production : NK Pandey, Dhiraj Kumar Singh and Deep Ram

Photographs : SK Luthra, Vinod Kumar and Vijay Kumar Gupta

Plate Design : Krishan Gopal

Correct Citation : Vinod Kumar, SK Luthra, Vinay Bhardwaj and BP Singh 2014. Indian Potato Varieties and their Salient Features. CPRI Technical Bulletin No. 78 (revised) ICAR-Central Potato Research Institute, Shimla, Himachal Pradesh, India.

Published by : BP Singh, Director
ICAR-Central Potato Research Institute
Shimla 171001, HP, India
Email: directorcpri@gmail.com

Printed at Venus Printers and Publishers, B62/8, Naraina Industrial Area, Phase-II, New Delhi-110 028. Mobile: 98100 53617; Email: pawannanda@gmail.com
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Foreword

I am pleased that Central Potato Research Institute, Shimla is publishing a technical bulletin *Indian Potato Varieties*.

Potato has been rightly identified as the future food crop by Food and Agricultural Organization, Rome. It is widely consumed as vegetable and processed into a variety of products viz. chips, French fries, flakes etc. Global production of potato reached to a record 365 million tons in 2012. In India, research on potato has progressed with the development of region-specific, high yielding varieties and production, protection as well processing technologies. India, now, is the second highest potato producing country in the world with a total production of 45 million tons during 2012-13.

Varietal development to harness the natural resources as well as the applied inputs efficiently is the prime focus of any commodity research institute. Since the establishment of the Central Potato Research Institute (CPRI) in 1949, concerted efforts of potato breeders have led to the development and release of 52 improved indigenous potato varieties suitable for varied agro-ecologies of India. In addition, one improved TPS population and 19 elite genetic stocks have been developed and registered. It is necessary that the information on potato agro-ecological zones and their varietal requirement, potato varieties developed, suitability of these varieties for different agro-ecologies, genetic stock developed and registered is compiled and documented to serve as a reference for future research.

I appreciate the efforts made by the authors for bringing out this technical bulletin. I am sure, this bulletin will serve as true guide for scientists, potato growers, teachers, students and other stakeholders who are associated with potato research and development.

(N. K. Krishna Kumar)
Preface

The Central Potato Research Institute, Shimla (CPRI) is a national institute devoted to R&D activities of potato. One of the mandates of the institute is to develop improved potato varieties for different agro-climatic conditions of the country. Nearly 80% of potato in India is grown in Indo-gangetic plains. Remaining area is in hills and plateau. The varietal requirements of these regions vary due to their varying agro-ecological conditions. Details in this regard have been tabulated and presented in this catalogue.

The genetic improvement of a crop is a continuous task as growers and consumers requirements go on changing, and new diseases, pests and abiotic stresses continue to evolve. Till now, the CPRI has developed 51 varieties and a TPS population for different agro-climatic regions of the country. These have successfully taken care of the needs of potato cultivation in India. Besides, table varieties, processing varieties have also been developed. These varieties have contributed substantially to the observed increase in production and productivity in the country. The varieties/hybrids from Indian program has benefited not only this country but also several other countries like Afghanistan, Bangladesh, Bhutan, Bolivia, Madagascar, Nepal, Philippines and Sri Lanka, where the Indian varieties/ hybrids have been adopted for commercial cultivation. Indian potato varieties/numbers grown in these countries are listed in the end.

The present catalogue is an update of the previous bulletins on Indian potato varieties and their salient features published by the CPRI. It provides information on major morphological as well as agronomic features of all potato varieties (except Kufri Kisan and Kufri Neelamani, which are no more available) developed by CPRI till date. Morphological features presented in the present catalogue were recorded as per DUS Descriptors
finalized by the CPRI in consultation with PPV&FR authority New Delhi.

Besides including a table on the year of release and the parentage of all the varieties, in the end the catalogue also lists the varieties now recommended for cultivation in the different regions of the country. The CPRI is also developing genetic stocks for use in the breeding programmes. The genetic stocks developed and registered are listed in the end.

Vinod Kumar
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Vinay Bhardwaj
BP Singh
Potato Agro-ecological zones and their varietal requirements

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<th>Region</th>
<th>Soil and climatic features</th>
<th>Crop season and whether irrigated or rainfed</th>
<th>Varietal requirements</th>
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</thead>
<tbody>
<tr>
<td>Hills</td>
<td>Himalayan very high hills (3, 000-3, 500 m asl)</td>
<td>Acidic soils of coarse to loamy texture, frost in early stages, moisture stress during early growth period, snowfall near harvest</td>
<td>Summer: June to September (irrigated)</td>
<td>Long day adapted and resistance to late blight</td>
</tr>
<tr>
<td></td>
<td>Himalayan high hills (1, 800-3, 000 m asl)</td>
<td>Acidic soils of varying texture, frost and hails in early stages, moisture stress during early growth, excess moisture during and after tuberization</td>
<td>Summer: March/April to August/September (rainfed)</td>
<td>Long day adapted and high resistance to late blight</td>
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<tr>
<td></td>
<td>Himalayan mid hills (1,000-1,800 m asl)</td>
<td>Acidic soils of varying texture, frost and hails after planting of spring crop, frost before lifting of autumn crop</td>
<td>Spring: January/February to May/June (irrigated) Autumn: August/September to November/December (irrigated)</td>
<td>Resistance to early blight, late blight, bacterial wilt and viruses</td>
</tr>
<tr>
<td></td>
<td>Low hills (600-1000 m asl)</td>
<td>Sandy and fine texture black soils, short and mild winter, warm rainy season with indifferent soil moisture conditions</td>
<td>Winter: November to February/March (irrigated) Kharif: July/August to September/October (rainfed)</td>
<td>Resistance to early blight, late blight, bacterial wilt, viral wilt, viruses and tuber rots</td>
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<td></td>
<td>Southern hills (1,000 –2, 000 m asl)</td>
<td>Acidic soils of varying texture, moisture stress in early stages in summer crop</td>
<td>Spring: January/February to May/June (irrigated) Summer: March/April to August/September (rainfed) Autumn: September to December (irrigated)</td>
<td>Resistance to late blight and cyst nematodes</td>
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<tr>
<td>Region</td>
<td>Soils and Weather Conditions</td>
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<td>Sikkim and North-Bengal hills (1,000–2, 000 m asl)</td>
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<td>North-western plains (&lt; 300 m asl)</td>
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<td>Short day adapted, early maturity, resistance to early blight, late blight, black scurf, scab and viruses and tolerance to frost</td>
<td></td>
</tr>
<tr>
<td>North-central plains (&lt; 300 m asl)</td>
<td>Neutral to slightly alkaline deep alluvial soils, warm at planting of early autumn crop and frost in later stages of main autumn crop, warm during later stages of late autumn crop</td>
<td>Early autumn: September to November/December (irrigated) Main autumn: October to January/February (irrigated) Late autumn: November/December to March (irrigated)</td>
<td>Short day adapted, early to medium maturity, resistance to early blight, late blight and viruses and tolerance to frost</td>
<td></td>
</tr>
<tr>
<td>North-eastern plains (&lt; 300 m asl)</td>
<td>Slightly acidic to slightly alkaline deep alluvial soils, short and mild winter</td>
<td>Winter: November to March (irrigated)</td>
<td>Short day adapted, resistance to early blight, late blight, charcoal rot and viruses, red tubers preferred</td>
<td></td>
</tr>
<tr>
<td>Central plains (&lt; 300 m asl)</td>
<td>Slightly alkaline sandy to heavy soils, short and mild winter</td>
<td>Winter: November to March (irrigated)</td>
<td>Short day adapted, resistance to early blight, late blight, charcoal rot and viruses</td>
<td></td>
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</table>
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Kharif: June –August to September/October (rainfed) | Resistance to early blight, late blight, bacterial wilt, viruses and tuber rots and heat tolerant |
List of potato varieties and TPS population developed by CPRI, their year of release and parentage

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<tr>
<th>Sr. No.</th>
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<th>Selection number</th>
<th>Year of release</th>
<th>Parentage</th>
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<td>1</td>
<td>Kufri Kisan</td>
<td>PS 454</td>
<td>1958</td>
<td>Up-to-date x Sd. 16</td>
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<td>2</td>
<td>Kufri Kuber</td>
<td>ON 2236</td>
<td>1958</td>
<td>(S. curtisobum x S. tuberosum) x S. andigenum</td>
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<td>3</td>
<td>Kufri Kumar</td>
<td>S 1758</td>
<td>1958</td>
<td>Lumbri x Katahdin</td>
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<td>4</td>
<td>Kufri Kundan</td>
<td>Hybrid-9</td>
<td>1958</td>
<td>Ekishirazu x Katahdin</td>
</tr>
<tr>
<td>5</td>
<td>Kufri Red</td>
<td>-</td>
<td>1958</td>
<td>Clonal selection from Darjeeling Red Round</td>
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<td>6</td>
<td>Kufri Safed</td>
<td>-</td>
<td>1958</td>
<td>Clonal selection from Phulwa</td>
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<td>7</td>
<td>Kufri Neela</td>
<td>A 1528</td>
<td>1963</td>
<td>Katahdin x Shamrock</td>
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<td>8</td>
<td>Kufri Sindhuri</td>
<td>C 140</td>
<td>1967</td>
<td>Kufri Red x Kufri Kundan</td>
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<td>9</td>
<td>Kufri Alankar</td>
<td>A 3649</td>
<td>1968</td>
<td>Kennebec x ON 2090</td>
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<td>10</td>
<td>Kufri Chamatkar</td>
<td>ON 1202</td>
<td>1968</td>
<td>Ekishirazu x Phulwa</td>
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<td>11</td>
<td>Kufri Chandramukhi</td>
<td>A 2708</td>
<td>1968</td>
<td>Seedling 4485 x Kufri Kuber</td>
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<td>12</td>
<td>Kufri Jeevan</td>
<td>SLB/E 427</td>
<td>1968</td>
<td>M 109-3 x Seedling 698-D</td>
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<td>13</td>
<td>Kufri Jyoti</td>
<td>SLB/Z-389(b)</td>
<td>1968</td>
<td>3069d(4) x 2814a(1)</td>
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<td>14</td>
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<td>1968</td>
<td>Taborky x Seedling 698-D</td>
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<td>15</td>
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<td>16</td>
<td>Kufri Neelamani</td>
<td>A 7871</td>
<td>1968</td>
<td>Kufri Kundan x 134-D</td>
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<td>17</td>
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<td>C 3745</td>
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<td>18</td>
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<td>19</td>
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<td>Serkov x Adina</td>
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<td>20</td>
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<td>C 3804</td>
<td>1973</td>
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<td>21</td>
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<td>JF 4870</td>
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<td>Kufri Jyoti x Kufri Alankar</td>
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<td>22</td>
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<td>1980</td>
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<td>23</td>
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<td>Cultivar</td>
<td>Registration No.</td>
<td>Year</td>
<td>Parentage</td>
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<td>25</td>
<td>Kufri Swarna</td>
<td>PCN/76-110</td>
<td>1985</td>
<td>Kufri Jyoti x (VTn)2 62.33.3</td>
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<td>JI 5857</td>
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<td>1996</td>
<td>EM/C-1020 x Allerfrüheste Gelbe</td>
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<td>MP/91-G</td>
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<td>1998</td>
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<td>34</td>
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<td>Kufri Ashoka x PH/F-1430</td>
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<td>Kufri Kanchan</td>
<td>SE/I-1307</td>
<td>1999</td>
<td>SLB/Z-405(a) x Pimpernel</td>
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<td>36</td>
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<td>MS/92-2105</td>
<td>2005</td>
<td>Kufri Lalima x MS/82-797</td>
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<td>2005</td>
<td>QB/A 9-120 x Spatz</td>
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<td>2005</td>
<td>Kufri Jyoti x EX/A 680-16</td>
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<td>39</td>
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<td>HT/92-621</td>
<td>2006</td>
<td>Kufri Lauvkar x LT-1</td>
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<td>40</td>
<td>Kufri Chipsona-3</td>
<td>MP/97-583</td>
<td>2006</td>
<td>MP/91-86 x Kufri Chipsona-2</td>
</tr>
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<td>41</td>
<td>Kufri Himalini</td>
<td>SM/91-1515</td>
<td>2006</td>
<td>I-1062 x Tollocan</td>
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<td>42</td>
<td>Kufri Himsona</td>
<td>MP/97-644</td>
<td>2008</td>
<td>MP/92-35 x Kufri Chipsona-2</td>
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<td>43</td>
<td>Kufri Sadabahar</td>
<td>MS/93-1344</td>
<td>2008</td>
<td>MS/81-145 x PH/F-1545</td>
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<td>44</td>
<td>Kufri Girdhari</td>
<td>SM/93-237</td>
<td>2008</td>
<td>Kufri Megha x Bulk pollen of 10 genotypes</td>
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<td>45</td>
<td>Kufri Khyati</td>
<td>J/93-86</td>
<td>2008</td>
<td>MS/82-638 x Kufri Pukhrat</td>
</tr>
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<td>46</td>
<td>Kufri Frysona</td>
<td>MP/98-71</td>
<td>2009</td>
<td>MP/92-30 x MP/90-94</td>
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<td>48</td>
<td>Kufri Chipsona-4</td>
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<td>2010</td>
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<td>49</td>
<td>Kufri Garima</td>
<td>MS/99-1871</td>
<td>2012</td>
<td>PH/F 1045 x MS/82-638</td>
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<td>50</td>
<td>Kufri Gaurav</td>
<td>JX576</td>
<td>2012</td>
<td>JE 812 x Kufri Jyoti</td>
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<td>51</td>
<td>Kufri Lalit</td>
<td>2001-P-55</td>
<td>2014</td>
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<td>52</td>
<td>TPS Population</td>
<td>92-PT-27</td>
<td>2007</td>
<td>83-P-47 x D-150</td>
</tr>
</tbody>
</table>
Kufri Alankar

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with purple pigment lightly scattered throughout
- **Leaflet**: Ovate-lanceolate
- **Flower**: White
- **Tuber**: White-cream, ovoid with medium eyes and cream flesh
- **Sprout**: Pink

**Agronomic features**

- **Adaptability**: North Indian plains
- **Maturity**: Medium
- **Average yield potential**: 200-250 q/ha
- **Storability**: Average
- **Reaction to diseases/pests**: Early blight – susceptible
  - Late blight – moderately resistant
  - Charcoal rot – susceptible
  - Wart – susceptible
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- **Consumer and processing quality**: Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
- **Special attribute**: Early bulker
Kufri Anand

**Morphological features**

Canopy : Semi-compact

Stem : Green with purple pigment lightly scattered throughout

Leaflet : Ovate

Flower : Red-violet

Tuber : White-cream, oblong with shallow eyes and white flesh

Sprout : Red-purple

**Agronomic features**

Adaptability : North Indian plains

Maturity : Medium

Average yield potential : 350-400 q/ha

Storability : Average to good

Reaction to diseases/pests : Early blight – not tested

: Late blight – moderately resistant

: Charcoal rot – susceptible

: Wart – immune

: Viruses – not tested

: Cyst nematodes – not tested

Consumer and processing quality : Easy to cook, texture floury, flavour mild, free from after-cooking discoloration

Special attributes : Tolerant to hopper burn and frost, good for growing in spring season
Kufri Arun

**Morphological features**

Canopy : Semi-compact

Stem : Red purple with green pigment highly scattered throughout

Leaflet : Lanceolate

Flower : Red-violet

Tuber : Red, ovoid with medium eyes and cream flesh

Sprout : Red-purple

**Agronomic features**

Adaptability : North India plains

Maturity : Medium

Average yield potential : 300-350 q/ha

Storability : Good

Reaction to diseases/pests : Early blight – not tested

: Late blight – moderately resistant

: Charcoal rot – not tested

: Wart – not tested

: Viruses – not tested

: Cyst nematodes – not tested

Consumer and processing quality : Easy to cook, texture mealy, flavour mild, free from after-cooking discoloration
Kufri Ashoka

**Morphological features**
- Canopy: Semi-compact
- Stem: Green
- Leaflet: Ovate-lanceolate
- Flower: Red-violet
- Tuber: White-cream, ovoid with medium-deep eyes and white cream flesh
- Sprout: Red-purple

**Agronomic features**
- Adaptability: North Indian plains
- Maturity: Early
- Average yield potential: 250-300 q/ha
- Storability: Good
- Reaction to diseases/pests:
  - Early blight – not tested
  - Late blight – susceptible
  - Charcoal rot – susceptible
  - Wart – susceptible
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- Consumer and processing quality: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Badshah

Morphological features
Canopy : Semi-compact
Stem : Green with red brown pigment highly scattered throughout
Leaflet : Ovate-lanceolate
Flower : White
Tuber : White-cream, ovoid with shallow eyes and cream flesh
Sprout : Red-purple

Agronomic features
Adaptability : North Indian plains and plateau
Maturity : Medium
Average yield potential : 300-350 q/ha
Storability : Average
Reaction to diseases/pests : Early blight – resistant
: Late blight – resistant
: Charcoal rot – susceptible
: Wart – susceptible
: Viruses – resistant to PVX
: Cyst nematodes – susceptible
Consumer and processing quality : Easy to cook, texture floury, flavour mild, free from after-cooking discoloration, colouration on exposure to light
**Kufri Bahar**

**Morphological features**
- Canopy: Semi-compact
- Stem: Green
- Leaflet: Ovate-lanceolate
- Flower: White
- Tuber: White-cream, ovoid with medium deep eyes and white flesh
- Sprout: White-green

**Agronomic features**
- Adaptability: North Indian plains
- Maturity: Medium
- Average yield potential: 300-350 q/ha
- Storability: Good
- Reaction to diseases/pests:
  - Early blight – susceptible
  - Late blight – susceptible
  - Charcoal rot – susceptible
  - Wart – immune
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- Consumer and processing quality: Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
- Special attributes: Early bulker. Tolerant to gemini virus and slow rate of degeneration
Kufri Chamatkar

**Morphological features**

Canopy : Semi-compact

Stem : Green with purple pigment only at base

Leaflet : Lanceolate

Flower : White

Tuber : Yellow, round with medium-deep eyes and yellow flesh

Sprout : White-green

**Agronomic features**

Adaptability : North Indian plains

Maturity : Late

Average yield potential : 200-250 q/ha

Storability : Poor

Reaction to diseases/pests : Early blight – resistant

: Late blight – susceptible

: Charcoal rot – resistant

: Wart – immune

: Viruses – susceptible

: Cyst nematodes – susceptible

Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration

Special attributes : Mainly medium size tubers
Kufri Chandramukhi

**Morphological features**
- Canopy: Semi-compact
- Stem: Green with red-brown pigment highly scattered throughout
- Leaflet: Ovate-lanceolate
- Flower: Red-violet
- Tuber: White-cream, ovoid with shallow eyes and white flesh
- Sprout: Red-purple

**Agronomic features**
- Adaptability: North Indian plains and plateau
- Maturity: Early
- Average yield potential: 200-250 q/ha
- Storability: Good
- Reaction to diseases/pests: 
  - Early blight – susceptible
  - Late blight – susceptible
  - Charcoal rot – susceptible
  - Wart – susceptible
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- Consumer and processing quality: Easy to cook, texture floury, flavour mild, free from after-cooking discoloration, suitable for processing also
- Special attributes: Attractive tubers, excellent taste
Kufri Chipsona-1

Morphological features
Canopy : Semi-compact
Stem : Green
Leaflet : Ovate-lanceolate
Flower : White
Tuber : White-cream, ovoid with shallow eyes and white-cream flesh
Sprout : White-green

Agronomic features
Adaptability : North Indian plains
Maturity : Medium
Average yield potential : 300-350 q/ha
Storability : Good
Reaction to diseases/pests : Early blight – not tested
: Late blight – resistant
: Charcoal rot – susceptible
: Wart – susceptible
: Viruses – susceptible
: Cyst nematodes – susceptible
Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration. High dry matter, low reducing sugars and low phenols. Suitable for making chips and French fries
Special attributes : Attractive tubers, excellent taste
Kufri Chipsona-2

**Morphological features**

- **Canopy**: Open
- **Stem**: Green
- **Leaflet**: Lanceolate
- **Flower**: White
- **Tuber**: White-cream, round with medium deep eyes and cream flesh
- **Sprout**: Red-purple

**Agronomic features**

- **Adaptability**: North Indian plains
- **Maturity**: Medium
- **Average yield potential**: 300-350 q/ha
- **Storability**: Average
- **Reaction to diseases/pests**: 
  - Early blight – not tested
  - Late blight – resistant
  - Charcoal rot – susceptible
  - Wart – immune
  - Viruses – not tested
  - Cyst nematodes – susceptible

**Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration. High dry matter, low reducing sugars and low phenols. Suitable for making chips

**Special attributes**: Good for growing in spring season, frost tolerant
Kufri Chipsona-3

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with red brown pigment only at base
- **Leaflet**: Ovate-lanceolate
- **Flower**: White
- **Tuber**: White-cream, ovoid with shallow eyes and white flesh
- **Sprout**: Red-purple

**Agronomic features**

- **Adaptability**: North Indian plains
- **Maturity**: Medium
- **Average yield potential**: 300-350 q/ha
- **Storability**: Good
- **Reaction to diseases/pests**:
  - Early blight – not tested
  - Late blight – resistant
  - Charcoal rot – not tested
  - Wart – susceptible
  - Viruses – susceptible
  - Cyst nematodes – not tested
- **Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration. High dry matter, low reducing sugars and low phenols. Suitable for making chips and French fries
Kufri Chipsona-4

**Morphological features**

Canopy : Compact

Stem : Green with red brown pigment lightly scattered throughout

Leaflet : Ovate-lanceolate

Flower : White

Tuber : White-cream, round with shallow eyes and white flesh

Sprout : Red-purple

**Agronomic features**

Adaptability : Karnataka, West-Bengal and Madhya Pradesh

Maturity : Medium

Average yield potential : 300-350 q/ha

Storability : Good

Reaction to diseases/pests :
- Early blight – not tested
- Late blight – field resistant
- Charcoal rot – not tested
- Wart – susceptible
- Viruses – susceptible
- Cyst nematodes – not tested

Consumer and processing quality : Easy to cook, texture mealy, flavour mild, free from after-cooking discoloration. High dry matter, low reducing sugars and low phenols. Suitable for making chips.
Kufri Dewa

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with red brown pigment highly scattered throughout
- **Leaflet**: Ovate-lanceolate
- **Flower**: Red-violet
- **Tuber**: White-cream, ovoid with pink and deep eyes and cream flesh
- **Sprout**: Red-purple

**Agronomic features**

- **Adaptability**: North Indian plains
- **Maturity**: Late
- **Average yield potential**: 200-250 q/ha
- **Storability**: Very good
- **Reaction to diseases/pests**: Early blight – susceptible
  - Late blight – susceptible
  - Charcoal rot – susceptible
  - Wart – susceptible
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- **Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
- **Special attributes**: Frost tolerant and good keeper
**Kufri Frysona**

**Morphological features**
- **Canopy**: Open
- **Stem**: Green with purple pigment highly scattered throughout
- **Leaflet**: Ovate-lanceolate
- **Flower**: Red-violet
- **Tuber**: White-cream, Long-oblong with shallow eyes and white flesh
- **Sprout**: Red-purple

**Agronomic features**
- **Adaptability**: North Indian plains
- **Maturity**: Medium
- **Average yield potential**: 300-350 q/ha
- **Storability**: Good
- **Reaction to diseases/pests**:
  - Early blight – not tested
  - Late blight – field resistant
  - Charcoal rot – not tested
  - Wart – immune
  - Viruses – not tested
  - Cyst nematodes – not tested

**Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration. High dry matter, low reducing sugars and low phenols. Suitable for making French fries
Kufri Garima

Morphological features
Canopy : Compact
Stem : Grey green
Leaflet : Ovate-lanceolate
Flower : White
Tuber : Light yellow, ovoid with shallow eyes and light yellow flesh
Sprout : Red-purple

Agronomic features
Adaptability : Uttar Pradesh, Bihar and West-Bengal
Maturity : Medium
Average yield potential : 300-350 q/ha
Storability : Good
Reaction to diseases/pests : Early blight – not tested
: Late blight – field resistant
: Charcoal rot – not tested
: Wart – not tested
: Viruses – not tested
: Cyst nematodes – not tested
Consumer and processing quality : Easy to cook, texture mealy, flavour mild, free from after-cooking discoloration.
Kufri Gaurav

Morphological features
Canopy : Semi-compact
Stem : Green
Leaflet : Ovate-lanceolate
Flower : White
Tuber : White-cream, ovoid with medium-deep eyes and white-cream flesh
Sprout : White-green

Agronomic features
Adaptability : Punjab, Haryana, Uttarakhand plains and Western Uttar Pradesh
Maturity : Medium
Average yield potential : 300-350 q/ha
Storability : Good
Reaction to diseases/pests : Early blight – not tested
: Late blight – susceptible
: Charcoal rot – not tested
: Wart – not tested
: Viruses – not tested
: Cyst nematodes – not tested
Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Special attributes : Nutrient use efficient even at sub-optimal doses
**Kufri Girdhari**

**Morphological features**

Canopy : Open  
Stem : Green  
Leaflet : Ovate-lanceolate  
Flower : White  
Tuber : White-cream, ovoid with shallow eyes and white flesh  
Sprout : Pink

**Agronomic features**

Adaptability : Indian hills  
Maturity : Medium  
Average yield potential : 300-350 q/ha  
Storability : Average  
Reaction to diseases/pests :  
  - Early blight – not tested  
  - Late blight – highly resistant  
  - Charcoal rot – not tested  
  - Wart – susceptible  
  - Viruses – not tested  
  - Cyst nematodes – not tested  

Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration  
Special attributes : Long dormancy of tubers
Kufri Giriraj

**Morphological features**

Canopy : Semi-compact

Stem : Green with red brown pigment highly scattered throughout

Leaflet : Ovate

Flower : Red-violet

Tuber : White-cream, ovoid with shallow eyes and white flesh

Sprout : Red-purple

**Agronomic features**

Adaptability : North-Indian hills

Maturity : Medium

Average yield potential : 200-250 q/ha

Storability : Average

Reaction to diseases/pests : Early blight – not tested
: Late blight – moderately resistant
: Charcoal rot – not tested
: Wart – immune
: Viruses – not tested
: Cyst nematodes – susceptible

Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Himalini

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with red pigment only at base
- **Leaflet**: Ovate
- **Flower**: Red-violet
- **Tuber**: White-cream, ovoid with medium-deep eyes and yellow flesh
- **Sprout**: Pink

**Agronomic features**

- **Adaptability**: North Indian hills
- **Maturity**: Medium
- **Average yield potential**: 300-350 q/ha
- **Storability**: Average
- **Reaction to diseases/pests**
  - Early blight – not tested
  - Late blight – moderately resistant
  - Charcoal rot – not tested
  - Wart – susceptible
  - Viruses – not tested
  - Cyst nematodes – not tested
- **Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
- **Special attributes**: Day-neutral
Kufri Himsona

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with red brown pigment only at lower nodes
- **Leaflet**: Ovate-lanceolate
- **Flower**: Red-violet
- **Tuber**: White-cream, round with shallow eyes and cream flesh
- **Sprout**: Pink

**Agronomic features**

- **Adaptability**: Indian hills
- **Maturity**: Late
- **Average yield potential**: 150-200 q/ha
- **Storability**: Good
- **Reaction to diseases/pests**: Early blight – not tested
  - Late blight – moderately resistant
  - Charcoal rot – not tested
  - Wart – immune
  - Viruses – not tested
  - Cyst nematodes – not tested

**Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration. High dry matter, low reducing sugars and low phenols. Suitable for chip making.
**Kufri Jawahar**

**Morphological features**
- Canopy: Compact
- Stem: Green
- Leaflet: Ovate
- Flower: White
- Tuber: White-cream, round with medium-deep eyes and cream flesh
- Sprout: Red-purple

**Agronomic features**
- Adaptability: North-Indian plains and plateau
- Maturity: Early
- Average yield potential: 250-300 q/ha
- Storability: Average
- Reaction to diseases/pests: Early blight – not tested
  - Late blight – moderately resistant
  - Charcoal rot – susceptible
  - Wart – immune
  - Viruses – not tested
  - Cyst nematodes – susceptible
- Consumer and processing quality: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration.
- Special attributes: Slow rate of degeneration and suitable for inter-cropping
Kufri Jeevan

**Morphological features**

Canopy : Open

Stem : Green with purple pigment randomly distributed

Leaflet : Ovate-lanceolate

Flower : White

Tuber : White-cream, ovoid with shallow eyes and white-cream flesh

Sprout : White-green

**Agronomic features**

Adaptability : North Indian hills

Maturity : Late

Average yield potential : 150-200 q/ha

Storability : Average

Reaction to diseases/pests : Early blight – moderately resistant

: Late blight – moderately resistant (also tuber)

: Charcoal rot – susceptible

: Wart – susceptible

: Viruses – susceptible

: Cyst nematodes – susceptible

Consumer and processing quality : Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
Kufri Jyoti

**Morphological features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canopy</td>
<td>Compact</td>
</tr>
<tr>
<td>Stem</td>
<td>Green with red brown pigment highly scattered throughout</td>
</tr>
<tr>
<td>Leaflet</td>
<td>Ovate</td>
</tr>
<tr>
<td>Flower</td>
<td>White</td>
</tr>
<tr>
<td>Tuber</td>
<td>White-cream, ovoid with shallow eyes and cream flesh</td>
</tr>
<tr>
<td>Sprout</td>
<td>Red-purple</td>
</tr>
</tbody>
</table>

**Agronomic features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptability</td>
<td>Hills, plains and plateau</td>
</tr>
<tr>
<td>Maturity</td>
<td>Medium</td>
</tr>
<tr>
<td>Average yield potential</td>
<td>250-300 q/ha</td>
</tr>
<tr>
<td>Storability</td>
<td>Good</td>
</tr>
<tr>
<td>Reaction to diseases/pests</td>
<td>Early blight – moderately resistant</td>
</tr>
<tr>
<td></td>
<td>Late blight – moderately resistant</td>
</tr>
<tr>
<td></td>
<td>Charcoal rot – susceptible</td>
</tr>
<tr>
<td></td>
<td>Wart – immune</td>
</tr>
<tr>
<td></td>
<td>Viruses – susceptible</td>
</tr>
<tr>
<td></td>
<td>Cyst nematodes – susceptible</td>
</tr>
<tr>
<td>Consumer and processing quality</td>
<td>Easy to cook, texture waxy, flavour mild, good for processing, free from after-cooking discoloration</td>
</tr>
<tr>
<td>Special attributes</td>
<td>Wide adaptability, early bulker and slow rate of degeneration</td>
</tr>
</tbody>
</table>
Kufri Kanchan

**Morphological features**

Canopy : Semi-compact

Stem : Red-purple with green pigment 
highly scattered throughout

Leaflet : Ovate-lanceolate

Flower : Blue-violet

Tuber : Pink, ovoid with medium-deep 
eyes and cream flesh

Sprout : Pink

**Agronomic features**

Adaptability : North-Bengal hills and Sikkim

Maturity : Medium

Average yield potential : 250-300 q/ha

Storability : Good

Reaction to diseases/pests :
- Early blight – not tested
- Late blight – moderately resistant
- Charcoal rot – not tested
- Wart – immune
- Viruses – not tested
- Cyst nematodes – susceptible

Consumer and processing quality : Easy to cook, texture waxy, flavour mild, 
free from after-cooking discoloration.

Special attributes : Slow rate of degeneration
# Kufri Khasigaro

## Morphological features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canopy</td>
<td>Semi-compact</td>
</tr>
<tr>
<td>Stem</td>
<td>Green with purple pigment highly scattered throughout</td>
</tr>
<tr>
<td>Leaflet</td>
<td>Lanceolate</td>
</tr>
<tr>
<td>Flower</td>
<td>Red-violet</td>
</tr>
<tr>
<td>Tuber</td>
<td>Yellow, round with medium-deep eyes and cream flesh</td>
</tr>
<tr>
<td>Sprout</td>
<td>Red-purple</td>
</tr>
</tbody>
</table>

## Agronomic features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptability</td>
<td>North-eastern hills</td>
</tr>
<tr>
<td>Maturity</td>
<td>Late</td>
</tr>
<tr>
<td>Average yield potential</td>
<td>200-250 q/ha</td>
</tr>
<tr>
<td>Storability</td>
<td>Average</td>
</tr>
<tr>
<td>Reaction to diseases/pests</td>
<td>Early blight – moderately resistant</td>
</tr>
<tr>
<td></td>
<td>Late blight – moderately resistant</td>
</tr>
<tr>
<td></td>
<td>Charcoal rot – susceptible</td>
</tr>
<tr>
<td></td>
<td>Wart – immune</td>
</tr>
<tr>
<td></td>
<td>Viruses – susceptible</td>
</tr>
<tr>
<td></td>
<td>Cyst nematodes – susceptible</td>
</tr>
<tr>
<td>Consumer and processing quality</td>
<td>Easy to cook, texture floury, flavour mild, free from after-cooking discoloration</td>
</tr>
</tbody>
</table>
**Kufri Khyati**

**Morphological features**
- Canopy : Semi-compact
- Stem : Green with purple pigment lightly scattered throughout
- Leaflet : Ovate-lanceolate
- Flower : White
- Tuber : White-cream, ovoid with medium-deep eyes and white-cream flesh
- Sprout : Red-purple

**Agronomic features**
- Adaptability : North Indian plains
- Maturity : Early
- Average yield potential : 250-300 q/ha
- Storability : Good
- Reaction to diseases/pests : Early blight – field resistant
  : Late blight – field resistant
  : Charcoal rot – not tested
  : Wart – not tested
  : Viruses – not tested
  : Cyst nematodes – not tested
- Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
- Special attributes : Early bulker, suitable for high cropping intensity
Kufri Kuber

**Morphological features**

Canopy : Semi-compact

Stem : Green with red brown pigment only at base

Leaflet : Ovate

Flower : Red-violet

Tuber : White-cream, ovoid with medium-deep eyes and white flesh

Sprout : Red-purple

**Agronomic features**

Adaptability : North Indian plains and plateau

Maturity : Early

Average yield potential : 150-200 q/ha

Storability : Poor

Reaction to diseases/pests :
- Early blight – susceptible
- Late blight – susceptible
- Charcoal rot – susceptible
- Wart – susceptible
- Viruses – resistant to PLRV
- Cyst nematodes – susceptible

Consumer and processing quality :
Cooks on prolonged boiling, texture floury, flavour mild, free from after-cooking discoloration
Kufri Kumar

Morphological features
Canopy : Semi-compact
Stem : Green with purple pigment lightly scattered throughout
Leaflet : Ovate-lanceolate
Flower : Red-violet
Tuber : Yellow, ovoid with shallow eyes and white flesh
Sprout : Red-purple

Agronomic features
Adaptability : North Indian hills
Maturity : Late
Average yield potential : 150-200 q/ha
Storability : Good
Reaction to diseases/pests : Early blight – susceptible
: Late blight – moderately resistant
: Charcoal rot – resistant
: Wart – immune
: Viruses – susceptible
: Cyst nematodes – susceptible
Consumer and processing quality : Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
Kufri Kundan

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with purple pigment lightly scattered throughout
- **Leaflet**: Ovate-lanceolate
- **Flower**: Red-violet
- **Tuber**: White-cream, ovoid with medium-deep eyes and white flesh
- **Sprout**: Red-purple

**Agronomic features**

- **Adaptability**: North Indian hills
- **Maturity**: Medium
- **Average yield potential**: 150-200 q/ha
- **Storability**: Poor
- **Reaction to diseases/pests**
  - Early blight – susceptible
  - Late blight – moderately resistant
  - Charcoal rot – resistant
  - Wart – susceptible
  - Viruses – susceptible
  - Cyst nematodes – susceptible

**Consumer and processing quality**: Cooks on prolonged boiling, texture floury, flavour mild, free from after-cooking discoloration
**Kufri Lalima**

**Morphological features**
- Canopy: Semi-compact
- Stem: Red purple with green pigment highly scattered throughout
- Leaflet: Ovate-lanceolate
- Flower: Red-violet
- Tuber: Red, round with medium-deep eyes and white flesh
- Sprout: Red-purple

**Agronomic features**
- Adaptability: North Indian plains
- Maturity: Medium
- Average yield potential: 200-250 q/ha
- Storability: Average
- Reaction to diseases/pests:
  - Early blight – moderately resistant
  - Late blight – susceptible
  - Charcoal rot – susceptible
  - Wart – susceptible
  - Viruses – resistant to PVY
  - Cyst nematodes – susceptible
- Consumer and processing quality:
  - Cooks on prolonged boiling, texture floury, flavour mild, free from after-cooking discoloration
Kufri Lalit

**Morphological features**

Canopy : Compact

Stem : Green with some purple pigment only at base

Leaflet : Ovate

Flower : Red-violet

Tuber : Light red, round with medium-deep eyes and yellow flesh

Sprout : Pink

**Agronomic features**

Adaptability : Eastern plains

Maturity : Medium

Average yield potential : 300-350 q/ha

Storability : Good

Reaction to diseases/pests :
- Early blight – not tested
- Late blight – field resistant
- Charcoal rot – not tested
- Wart – not tested
- Viruses – not tested
- Cyst nematodes – not tested

Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Lauvkar

**Morphological features**

Canopy : Semi-compact

Stem : Green with purple pigment lightly scattered throughout

Leaflet : Ovate

Flower : White

Tuber : White-cream, round with medium-deep eyes and cream flesh

Sprout : Red-purple

**Agronomic features**

Adaptability : Plateau

Maturity : Early

Average yield potential : 200-250 q/ha

Storability : Average

Reaction to diseases/pests : Early blight – susceptible

: Late blight – susceptible

: Charcoal rot – susceptible

: Wart – susceptible

: Viruses – susceptible

: Cyst nematodes – susceptible

Consumer and processing quality : Easy to cook, texture floury, flavour mild, good for processing, free from after-cooking discoloration

Special attribute : Heat tolerant
Kufri Megha

Morphological features

- Canopy: Semi-compact
- Stem: Green with red brown pigment highly scattered throughout
- Leaflet: Ovate-lanceolate
- Flower: White
- Tuber: White-cream, ovoid with medium-deep eyes and cream flesh
- Sprout: Red-purple

Agronomic features

- Adaptability: North-eastern hills
- Maturity: Medium
- Average yield potential: 250-300 q/ha
- Storability: Good
- Reaction to diseases/pests:
  - Early blight – moderately resistant
  - Late blight – resistant
  - Charcoal rot – not tested
  - Wart – not tested
  - Viruses – not tested
  - Cyst nematodes – susceptible
- Consumer and processing quality: Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
Kufri Muthu

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with red brown pigment lightly scattered throughout
- **Leaflet**: Ovate
- **Flower**: White
- **Tuber**: White-cream, ovoid with shallow eyes and cream flesh
- **Sprout**: Red-purple

**Agronomic features**

- **Adaptability**: South Indian hills
- **Maturity**: Medium
- **Average yield potential**: 250-300 q/ha
- **Storability**: Poor
- **Reaction to diseases/pests**
  - Early blight – susceptible
  - Late blight – moderately resistant
  - Charcoal rot – susceptible
  - Wart – immune
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- **Consumer and processing quality**: Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
- **Special attribute**: Tolerant to hopper burn
Kufri Naveen

**Morphological features**

- **Canopy**: Semi-compact
- **Stem**: Green with red brown pigment only at base
- **Leaflet**: Ovate-lanceolate
- **Flower**: White
- **Tuber**: White-cream, round with medium -deep eyes and yellow flesh
- **Sprout**: Red-purple

**Agronomic features**

- **Adaptability**: North-eastern hills
- **Maturity**: Late
- **Average yield potential**: 200-250 q/ha
- **Storability**: Poor
- **Reaction to diseases/pests**: Early blight – susceptible
  - Late blight – moderately resistant
    (also tuber)
  - Charcoal rot – susceptible
  - Wart – immune
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- **Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Neela

**Morphological features**
- **Canopy**: Semi-compact
- **Stem**: Red purple with green pigment highly scattered throughout
- **Leaflet**: Ovate-lanceolate
- **Flower**: White
- **Tuber**: White-cream, reddish purple splashed, ovoid with shallow eyes and cream flesh
- **Sprout**: Blue

**Agronomic features**
- **Adaptability**: South Indian hills
- **Maturity**: Late
- **Average yield potential**: 200-250 q/ha
- **Storability**: Average
- **Reaction to diseases/pests**: Early blight – susceptible
  - Late blight – moderately resistant
  - Charcoal rot – not tested
  - Wart – not tested
  - Viruses – susceptible
  - Cyst nematodes – resistant
- **Consumer and processing quality**: Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
Kufri Neelima

Morphological features
Canopy : Semi-compact
Stem : Green
Leaflet : Ovate-lanceolate
Flower : White
Tuber : White, ovoid with shallow eyes and white flesh
Sprout : Purple

Agronomic features
Adaptability : Nilgiri hills
Maturity : Medium
Average yield potential : 250-300 q/ha
Storability : Good
Reaction to diseases/pests : Early blight – not tested
: Late blight – resistant
: Charcoal rot – not tested
: Wart – not tested
: Viruses – not tested
: Cyst nematodes – highly resistant
Consumer and processing quality : Easy to cook, texture floury, flavour mild, free from after-cooking discoloration.
Kufri Pukhraj

**Morphological features**

Canopy: Semi-compact

Stem: Green with purple pigment highly scattered throughout

Leaflet: Ovate-lanceolate

Flower: White

Tuber: Yellow, ovoid with shallow-medium eyes and yellow flesh

Sprout: Purple

**Agronomic features**

Adaptability: North Indian plains and plateau

Maturity: Early to medium

Average yield potential: 350-400 q/ha

Storability: Medium

Reaction to diseases/pests:
- Early blight – resistant
- Late blight – moderately resistant
- Charcoal rot – not tested
- Wart – immune
- Viruses – not tested
- Cyst nematodes – not tested

Consumer and processing quality: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration. Coloration on exposure to light

Special attributes: Early bulker, suitable for low input eco-system
Kufri Pushkar

**Morphological features**

**Canopy** : Semi-compact

**Stem** : Green with red brown pigment only at base

**Leaflet** : Ovate-lanceolate

**Flower** : White

**Tuber** : Yellow, ovoid with medium-deep eyes and cream flesh

**Sprout** : Purple

**Agronomic features**

**Adaptability** : North Indian plains

**Maturity** : Medium

**Average yield potential** : 300-350 q/ha

**Storability** : Very Good

**Reaction to diseases/pests** : Early blight – not tested

: Late blight – resistant

: Charcoal rot – not tested

: Wart – immune

: Viruses – not tested

: Cyst nematodes – not tested

**Consumer and processing quality** : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Red

**Morphological features**

Canopy : Open

Stem : Green with red brown pigment lightly scattered throughout

Leaflet : Lanceolate

Flower : Red-violet

Tuber : Red, round with medium-deep eyes and cream flesh

Sprout : Red-purple

**Agronomic features**

Adaptability : North–eastern plains

Maturity : Medium

Average yield potential : 200-250 q/ha

Storability : Good

Reaction to diseases/pests : Early blight – susceptible
: Late blight – susceptible
: Charcoal rot – susceptible
: Wart – susceptible
: Viruses – susceptible
: Cyst nematodes – susceptible

Consumer and processing quality : Cooks on prolonged boiling, texture waxy, flavour strong, free from after-cooking discoloration
Kufri Sadabahar

**Morphological features**
- **Canopy**: Compact
- **Stem**: Green with purple pigment highly scattered throughout
- **Leaflet**: Ovate-lanceolate
- **Flower**: White
- **Tuber**: White cream, ovoid with shallow eyes and white flesh
- **Sprout**: Red-purple

**Agronomic features**
- **Adaptability**: Uttar Pradesh and adjoining areas
- **Maturity**: Medium
- **Average yield potential**: 300-350 q/ha
- **Storability**: Good
- **Reaction to diseases/pests**:  
  - Early blight – not tested  
  - Late blight – moderately resistant  
  - Charcoal rot – not tested  
  - Wart – not tested  
  - Viruses – not tested  
  - Cyst nematodes – not tested
- **Consumer and processing quality**: Easy to cook, texture mealy, flavour mild, free from after-cooking discoloration
- **Special attributes**: Early bulker
Kufri Safed

**Morphological features**
- Canopy: Semi-compact
- Stem: Green
- Leaflet: Ovate-lanceolate
- Flower: Red-violet
- Tuber: White-cream, round with purple and medium-deep eyes and cream flesh
- Sprout: White-green

**Agronomic features**
- Adaptability: North Indian plains
- Maturity: Late
- Average yield potential: 200-250 q/ha
- Storability: Good
- Reaction to diseases/pests:
  - Early blight – susceptible
  - Late blight – susceptible
  - Charcoal rot – susceptible
  - Wart – susceptible
  - Viruses – susceptible
  - Cyst nematodes – susceptible
- Consumer and processing quality:
  - Cooks on prolonged boiling, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Shailja

**Morphological features**
- **Canopy**: Semi-compact
- **Stem**: Green with purple pigment highly scattered throughout
- **Leaflet**: Ovate-lanceolate
- **Flower**: Red-violet
- **Tuber**: White-cream, ovoid with shallow eyes and white flesh
- **Sprout**: Red-purple

**Agronomic features**
- **Adaptability**: North Indian hills
- **Maturity**: Medium
- **Average yield potential**: 300-350 q/ha
- **Storability**: Average
- **Reaction to diseases/pests**: Early blight – not tested
  - Late blight – moderately resistant
  - Charcoal rot – not tested
  - Wart – not tested
  - Viruses – not tested
  - Cyst nematodes – not tested
- **Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Sheetman

Morphological features
Canopy : Open
Stem : Green with red brown pigment highly scattered throughout
Leaflet : Ovate-lanceolate
Flower : Red-violet
Tuber : White-cream, round with medium-deep eyes and cream flesh
Sprout : Red-purple

Agronomic features
Adaptability : North-western plains
Maturity : Medium
Average yield potential : 200-250 q/ha
Storability : Good
Reaction to diseases/pests : Early blight – susceptible
: Late blight – moderately resistant
: Charcoal rot – moderately resistant
: Wart – immune
: Viruses – susceptible
: Cyst nematodes – susceptible
Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Special attributes : Frost tolerant
Kufri Sherpa

**Morphological features**
- Canopy: Semi-compact
- Stem: Green
- Leaflet: Ovate-lanceolate
- Flower: Red-violet
- Tuber: Yellow, round with medium-deep eyes and cream flesh
- Sprout: Red-purple

**Agronomic features**
- Adaptability: North-Bengal hills and Sikkim
- Maturity: Medium
- Average yield potential: 150-200 q/ha
- Storability: Poor
- Reaction to diseases/pests:
  - Early blight – moderately resistant
  - Late blight – resistant (also tuber)
  - Charcoal rot – susceptible
  - Wart – immune
  - Virus diseases – moderately resistant to PVY
  - Cyst nematodes – susceptible
- Consumer and processing quality: Easy to cook, texture floury, flavour mild, free from after-cooking discoloration
**Kufri Sindhuri**

**Morphological features**
- **Canopy**: Open
- **Stem**: Green with purple pigment highly scattered throughout
- **Leaflet**: Lanceolate
- **Flower**: Red-violet
- **Tuber**: Red, round with deep eyes and cream flesh
- **Sprout**: Purple

**Agronomic features**
- **Adaptability**: North Indian plains
- **Maturity**: Late
- **Average yield potential**: 300-350 q/ha
- **Storability**: Good
- **Reaction to diseases/pests**: Early blight – moderately resistant
  - Late blight – susceptible
  - Charcoal rot – susceptible
  - Wart – susceptible
  - Viruses – susceptible to mosaic but tolerant to leaf roll
  - Cyst nematodes – not tested
- **Consumer and processing quality**: Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
- **Special attributes**: Suitable for low input eco-system
# Kufri Surya

## Morphological features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canopy</td>
<td>Semi-compact</td>
</tr>
<tr>
<td>Stem</td>
<td>Green with purple pigment lightly scattered throughout</td>
</tr>
<tr>
<td>Leaflet</td>
<td>Ovate-lanceolate</td>
</tr>
<tr>
<td>Flower</td>
<td>Red-violet</td>
</tr>
<tr>
<td>Tuber</td>
<td>White-cream, Oblong with shallow eyes and cream flesh</td>
</tr>
<tr>
<td>Sprout</td>
<td>Red-purple</td>
</tr>
</tbody>
</table>

## Agronomic features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptability</td>
<td>North Indian plains and plateau</td>
</tr>
<tr>
<td>Maturity</td>
<td>Early</td>
</tr>
<tr>
<td>Average yield potential</td>
<td>250-300 q/ha</td>
</tr>
<tr>
<td>Storability</td>
<td>Good</td>
</tr>
<tr>
<td>Reaction to diseases/pests</td>
<td>Early blight – not tested</td>
</tr>
<tr>
<td></td>
<td>Late blight – susceptible</td>
</tr>
<tr>
<td></td>
<td>Charcoal rot – not tested</td>
</tr>
<tr>
<td></td>
<td>Wart – immune</td>
</tr>
<tr>
<td></td>
<td>Viruses – not tested</td>
</tr>
<tr>
<td></td>
<td>Cyst nematodes – not tested</td>
</tr>
<tr>
<td>Consumer and processing quality</td>
<td>Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration, good for making French fries</td>
</tr>
<tr>
<td>Special attributes</td>
<td>Heat tolerant, suitable for early planting in plains, tolerant to hopper and mite burn</td>
</tr>
</tbody>
</table>
Kufri Sutlej

**Morphological features**

Canopy : Semi-compact

Stem : Green with purple pigment lightly scattered throughout

Leaflet : Ovate-lanceolate

Flower : White

Tuber : White-cream, ovoid with shallow eyes and white flesh

Sprout : White-green

**Agronomic features**

Adaptability : North Indian plains

Maturity : Medium

Average yield potential : 300-350 q/ha

Storability : Average

Reaction to diseases/pests :
- Early blight – not tested
- Late blight – moderately resistant
- Charcoal rot – not tested
- Wart – immune
- Viruses – not tested
- Cyst nematodes – susceptible

Consumer and processing quality : Easy to cook, texture waxy, flavour mild, free from after-cooking discoloration
Kufri Swarna

Morphological features
Canopy : Semi-compact
Stem : Green with purple pigment lightly scattered throughout
Leaflet : Ovate-lanceolate
Flower : White
Tuber : White-cream, ovoid with shallow eyes and white flesh
Sprout : Purple

Agronomic features
Adaptability : South Indian hills
Maturity : Medium
Average yield potential : 300-350 q/ha
Storability : Poor
Reaction to diseases/pests : Early blight – resistant
 : Late blight – resistant
 : Charcoal rot – not tested
 : Wart – immune
 : Viruses – not tested
 : Cyst nematodes – highly resistant
Consumer and processing quality : Easy to cook, texture floury, free from after-cooking discoloration
TPS Population 92-PT-27

It is a true potato seed (TPS) segregating population produced by crossing potato clone 83-P-47 as female with male clone TPS/D-150. The crop raised from this population is heterogeneous, but the produce has acceptable uniformity for tuber characters. Tubers are white to cream yellow, round to oval-long with shallow to medium deep eyes. It is suitable for cultivation in eastern region as a seedling crop in field as well as for production of tuberlets in nursery beds. Tuberlets are used as seed for growing a normal potato crop. Seedling crop matures in 110-120 days after transplanting, whereas the crop grown from tuberlets can be harvested after 90-100 days. It is resistant to late blight. Both of its parents flower under short days in plains and thus its TPS can be produced in the plains.

<table>
<thead>
<tr>
<th>Parents</th>
<th>Female (83-P-47)</th>
<th>Male (TPS/D-150)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morphological features</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canopy</td>
<td>Semi-compact</td>
<td>Semi-compact</td>
</tr>
<tr>
<td>Stem</td>
<td>Red-brown with green pigment highly scattered throughout</td>
<td>Green with purple pigment highly scattered throughout</td>
</tr>
<tr>
<td>Leaflet</td>
<td>Ovate-lanceolate</td>
<td>Ovate-lanceolate</td>
</tr>
<tr>
<td>Flower</td>
<td>White</td>
<td>Purple</td>
</tr>
<tr>
<td>Tuber</td>
<td>Yellow, ovoid with medium–deep eyes and yellow flesh</td>
<td>White, round with medium–deep eyes and yellow flesh</td>
</tr>
<tr>
<td>Sprout</td>
<td>Purple</td>
<td>Purple</td>
</tr>
<tr>
<td>Agronomic features</td>
<td>Female (83-P-47)</td>
<td>Male (TPS/D-150)</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td><strong>Adaptability</strong></td>
<td>Eastern Indo-Gangetic plains</td>
<td>Eastern Indo-Gangetic plains</td>
</tr>
<tr>
<td><strong>Maturity</strong></td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>Average yield potential</strong></td>
<td>250-300 q/ha</td>
<td>200-250 q/ha</td>
</tr>
<tr>
<td><strong>Storability</strong></td>
<td>Good</td>
<td>Poor</td>
</tr>
<tr>
<td><strong>Reaction to diseases/pest</strong></td>
<td>Early blight – moderately resistant</td>
<td>Early blight – resistant</td>
</tr>
<tr>
<td></td>
<td>Late blight – moderately resistant</td>
<td>Late blight – resistant</td>
</tr>
<tr>
<td></td>
<td>Charcoal rot – not tested</td>
<td>Charcoal rot – not tested</td>
</tr>
<tr>
<td></td>
<td>Wart – not tested</td>
<td>Wart – not tested</td>
</tr>
<tr>
<td></td>
<td>Viruses – not tested</td>
<td>Viruses – not tested</td>
</tr>
<tr>
<td></td>
<td>Cyst nematodes – not tested</td>
<td>Cyst nematodes – not tested</td>
</tr>
<tr>
<td><strong>Special features</strong></td>
<td>Flowers are functionally sterile. Thus no emasculation required for use as female</td>
<td>Profuse flowering under short days and has high pollen fertility. Thus suitable as male parent</td>
</tr>
</tbody>
</table>

Female (83-P-47)  
Male (TPS/D-150)
# Potato varieties presently recommended for cultivation in different agro-ecological zones of India

<table>
<thead>
<tr>
<th>Agro-ecological zones</th>
<th>Duration*</th>
<th>Recommended varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td>North-western plains</td>
<td>Early</td>
<td>Kufri Ashoka, Kufri Chandramukhi, Kufri Jawahar, Kufri Khyati, Kufri Pukhraj, Kufri Surya</td>
</tr>
<tr>
<td>West-central plains</td>
<td>Early</td>
<td>Kufri Chandramukhi, Kufri Jawahar, Kufri Khyati, Kufri Pukhraj, Kufri Lauvkar, Kufri Surya</td>
</tr>
<tr>
<td></td>
<td>Late</td>
<td>Kufri Sindhuri</td>
</tr>
<tr>
<td>North-eastern plains</td>
<td>Early</td>
<td>Kufri Ashoka, Kufri Chandramukhi, Kufri Khyati, Kufri Pukhraj, Kufri Surya</td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>Kufri Arun, Kufri Bahar, Kufri Chipsona-1, Kufri Chipsona-3, Kufri Frysona, Kufri Garima, Kufri Gaurav, (In Table Row No. 7) Kufri Jyoti, Kufri Kanchan, Kufri Lalima, Kufri Lalit, Kufri Pukhraj, Kufri Pushkar, Kufri Sutlej</td>
</tr>
<tr>
<td></td>
<td>Late</td>
<td>Kufri Sindhuri</td>
</tr>
<tr>
<td>Region</td>
<td>Duration</td>
<td>Varieties</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>----------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Plateau region</td>
<td>Early</td>
<td>Kufri Chandramukhi, Kufri Jawahar, Kufri Khyati, Kufri Lauvkar, Kufri Pukhraj, Kufri Surya</td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>Kufri Badshah, Kufri Garima, Kufri Jyoti, Kufri Lauvkar, Kufri Pukhraj</td>
</tr>
<tr>
<td>North-western hills</td>
<td>Medium</td>
<td>Kufri Girdhari, Kufri Giriraj, Kufri Himalini, Kufri Himsona, Kufri Jyoti, Kufri Shailja</td>
</tr>
<tr>
<td>North-eastern hills</td>
<td>Medium</td>
<td>Kufri Girdhari, Kufri Giriraj, Kufri Himalini, Kufri Jyoti, Kufri Megha, Kufri Shailja</td>
</tr>
<tr>
<td>North-Bengal and Sikkim hills</td>
<td>Medium</td>
<td>Kufri Girdhari, Kufri Jyoti, Kufri Kanchan</td>
</tr>
<tr>
<td>Southern hills</td>
<td>Medium</td>
<td>Kufri Girdhari, Kufri Giriraj, Kufri Himalini, Kufri Jyoti, Kufri Neelima, Kufri Shailja, Kufri Swarna</td>
</tr>
</tbody>
</table>

* Plains: Early (70-90 days), Medium (90-110 days) and Late (>110 days)
Hills: Early (100-110 days), Medium (110-120 days) and Late (> 120 days)
Breeding lines registered by CPRI as elite genetic stock

<table>
<thead>
<tr>
<th>Germplasm</th>
<th>Registration Number</th>
<th>Salient features</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX/A-680-16</td>
<td>INGR 01011</td>
<td>Resistant to late blight and exceptionally good combiner for agronomic characters</td>
</tr>
<tr>
<td>QB/A-9-120</td>
<td>INGR 04057</td>
<td>Highly resistant to late blight and good general combiner for agronomic traits.</td>
</tr>
<tr>
<td>QB/B-92-4</td>
<td>INGR 04058</td>
<td>High tuber dry matter and low reducing sugars. Good general combiner for dry matter.</td>
</tr>
<tr>
<td>PS/F-220</td>
<td>INGR 04059</td>
<td>Resistant to potato stem necrosis (PSND)</td>
</tr>
<tr>
<td>MP/99-322</td>
<td>INGR 04109</td>
<td>High starch/dry matter, low amylase (27.3% of total starch) and high amylopectin (72.7%). Resistant to late blight.</td>
</tr>
<tr>
<td>E/79-42</td>
<td>INGR 05022</td>
<td>Combined resistance to cyst nematode and late blight.</td>
</tr>
<tr>
<td>JW96</td>
<td>INGR 05023</td>
<td>Earliness</td>
</tr>
<tr>
<td>JX 123</td>
<td>INGR 06021</td>
<td>Earliness and resistant to early blight.</td>
</tr>
<tr>
<td>JN 189</td>
<td>INGR 07040</td>
<td>Resistant to stem necrosis and leaf hopper</td>
</tr>
<tr>
<td>JX 90</td>
<td>INGR 09069</td>
<td>Combined resistance to late blight and early blight.</td>
</tr>
<tr>
<td>D4</td>
<td>INGR 09067</td>
<td>Male fertile androgenic dihaploid of JTH/C107 with mutate white flowers.</td>
</tr>
<tr>
<td>C-13</td>
<td>INGR 09068</td>
<td>Male fertile, dwarf androgenic dihaploid of Kufri Chipsona-2 with high resistance to late blight.</td>
</tr>
<tr>
<td>SS 2040</td>
<td>INGR 09120</td>
<td>Frost tolerant clone of Solanum tuberosum ssp. andigena.</td>
</tr>
<tr>
<td>SS 1725-22</td>
<td>INGR 09121</td>
<td>Frost tolerant diploid clone of Solanum spegazzinii.</td>
</tr>
<tr>
<td>Variety</td>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>YY 6/3 C-11</td>
<td>INGR10143</td>
<td>Possesses Potato virus Y extreme resistance gene (Ryadg) in Triplex (YYYy) condition. Produces 96% progeny resistant to PVY.</td>
</tr>
<tr>
<td>E 1-3</td>
<td>INGR 11050</td>
<td>Interspecific somatic hybrid of dihaploid Solanum tuberosum L. (C-13) and S. etuberosum. It is tetraploid, male fertile and possesses resistance to potato virus Y.</td>
</tr>
<tr>
<td>P 7</td>
<td>INGR 11051</td>
<td>Interspecific somatic hybrid of dihaploid Solanum tuberosum L. (C-13) and S. pinnatisectum. It is tetraploid, male fertile and possesses resistance to potato late blight.</td>
</tr>
<tr>
<td>MP/97-921</td>
<td>INGR13049</td>
<td>Possesses acceptable processing traits, high resistance to late blight and extreme resistance (ER) to potato virus Y (PVY).</td>
</tr>
<tr>
<td>SS 1735-02</td>
<td>INGR13048</td>
<td>High late blight resistant and low cold induced sweetening clone of Solanum demissum.</td>
</tr>
</tbody>
</table>
**Indian potato varieties/ hybrids commercially grown in other countries**

<table>
<thead>
<tr>
<th>Country</th>
<th>Varieties/Hybrids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afghanistan</td>
<td>Kufri Chandramukhi</td>
</tr>
<tr>
<td>Nepal</td>
<td>Kufri Jyoti, Kufri Sindhuri</td>
</tr>
<tr>
<td>Bhutan</td>
<td>Kufri Jyoti</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>Kufri Sindhuri</td>
</tr>
<tr>
<td>Mexico</td>
<td>I-654 as CCM-69.1</td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>I-822 as cv. Khrushi, I-1085 as cv. Sita</td>
</tr>
<tr>
<td>Philippines</td>
<td>I-1035 as cv. Montanosa, I-1085 as cv. BSUP-04</td>
</tr>
<tr>
<td>Madagascar</td>
<td>I-1035 as Malaika</td>
</tr>
<tr>
<td>Bolivia</td>
<td>I-1039 as cv. India</td>
</tr>
<tr>
<td>Vietnam</td>
<td>I-1039 as cv. Red skin</td>
</tr>
</tbody>
</table>
General Procedure for Potato Breeding

1st year

Variety

2nd year

3rd to 8th year

9th to 12th year