WHEAT AGRONOMY EXPERIMENT NO. IR-DOS

NORTH WESTERN PLAINS ZONE 2019-2020

TITLE: Performance of new wheat genotypes at different dates of sowing under irrigated conditions.

OBJECTIVE: To evaluate the performance of genotypes at different dates of sowing.

TREATMENTS
A. Dates of sowing (Main-plots): 03
   D₁  Timely (5th to 11th Nov)
   D₂  Late (10th Dec. to 16th Dec.)
   D₃  Very Late (1st Jan. to 7th Jan.)

B. Genotypes (Sub-plots): 12
   1. HD3298  2. HD3059 (c)  3. DBW173 (c)  4. WH1021 (c)
   5. WH1124 (c)  6. PBW771(l)

Seed Required: 2.5 kg per location/entry

DESIGN: Split-plot

REPlications: Three

PLOT SIZE: GROSS: 1.60 m x 8 m = 12.80 sq. m. (8 rows at 20 cm spacing)
            NET:  1.20 m x 7 m  = 8.40 sq. m. (6 inner rows x 7 m long)

FERTILISER  150:60:40 kg N, P₂O₅ and K₂O/ha. Apply 1/3rd nitrogen, full phosphorus and potash to be applied as basal dose and the remaining 2/3rd nitrogen as 1/3rd at first irrigation and 1/3rd at second irrigation.

SEED RATE:  100 kg/ha for timely sown and 125 kg/ha for late and very late sown conditions (Adjust seed rate considering 1000 grains weight as 38 g).

CENTRES: Agra, Delhi, Durgapura, Gurdaspur, Hisar, Jammu, Karnal, Ludhiana, Pantnagar and Sriganganagar.
WHEAT AGRONOMY EXPERIMENT NO. RIR-TS-TAS

NORTH EASTERN PLAINS ZONE 2019-2020

TITLE: Performance of new wheat genotypes under restricted irrigation conditions.

OBJECTIVE: To evaluate the performance of timely sown genotypes at different irrigation schedules.

TREATMENTS
A. Irrigation levels (Main-plots): 03
   I₁ - No Irrigation
   I₂ - One irrigation at CRI (20-25 DAS)
   I₃ - Two irrigations at CRI and Boot leaf (80-85 DAS)

B. Genotypes (Sub-plots): 06
   1. HD3293
   2. HI1612 (c)
   3. HD3171 (c)
   4. K1317 (c)
   5. HD2888 (c)
   6. DBW252(I)

Seed Required: 2.5 kg per location/entry

DESIGN: Split-plot

REPLICATIONS: Three

PLOT SIZE: GROSS: 1.60 m x 8 m = 12.80 sq. m. (8 rows at 20 cm spacing)
NET: 1.20 m x 7 m = 8.40 sq. m. (6 inner rows x 7 m long)

FERTILISER: 90:60:40 kg N, P₂O₅ and K₂O/ha. Apply full dose of NPK as basal in I₁ and 1/3rd nitrogen, full phosphorus and potash as basal in other treatments and the remaining 2/3rd nitrogen at first irrigation.

SEED RATE: 100 kg/ha (Adjust seed rate considering 1000 grains weight as 38 g).

CENTRES: Burdwan, Coochbehbar, Faizabad, Kalyani, Kanpur, Ranchi, RAU Pusa, IARI Pusa, Sabour, Shillongani, Varanasi.

Randomize varieties in sub plots
TITLE: Performance of new wheat genotypes at different dates of sowing under irrigated conditions.

OBJECTIVE: To evaluate the performance of genotypes at different dates of sowing.

TREATMENTS

A. Dates of sowing (Main-plots): 03
   D₁  Timely (5th to 11th Nov)
   D₂  Late (3rd Dec. to 9th Dec.)
   D₃  Very Late (24th Dec. to 31st Dec.)

B. Genotypes (Sub-plots): 06
   1. CG1029   2. HI 1634   3. HD 2932 (c)   4. HD 2864 (c)   5. MP 3336 (c)
   6. MP 4010 (c)

Seed Required: 2.5 kg per location/entry

DESIGN: Split-plot

REPLICATIONS: Three

PLOT SIZE: GROSS: 1.80 m x 8 m = 14.40 sq. m. (9 rows at 20 cm spacing)
            NET: 1.40 m x 7 m = 9.80 sq. m. (7 inner rows x 7 m long)

FERTILISER 120:60:40 kg N, P₂O₅ and K₂O/ha. Apply 1/3rd nitrogen, full phosphorus and potash to be applied as basal dose and the remaining 2/3rd nitrogen as 1/3rd at first irrigation and 1/3rd at second irrigation.

SEED RATE: 100 kg/ha for timely sown and 125 kg/ha for late and very late sown conditions (Adjust seed rate considering 1000 grains weight as 38 g).

CENTRES: Bilaspur, Gwalior, Indore, Jabalpur, Junagarh, Powarkheda, Udaipur, Vijapur.
WHEAT AGRONOMY EXPERIMENT NO. IR-DOS

PENINSULAR ZONE 2019-2020

TITLE: Performance of new wheat genotypes at different dates of sowing under irrigated conditions.

OBJECTIVE: To evaluate the performance of genotypes at different dates of sowing.

TREATMENTS
A. Dates of sowing (Main-plots): 03
   D₁  Timely (5th to 11th Nov)
   D₂  Late (26th Nov. to 2nd Dec.)
   D₃  Very Late (17th Dec. to 23rd Dec.)

B. Genotypes (Sub-plots): 04
   1. DDW 48  2. DDW 49 (d)  3. HI1633  4. MACS 6478(c)
   5. MACS 6222(c)  6. MACS 3949(dc)  7. UAS 428 (dc)  8. Raj 4083 (c)
   9. HD 2932 (c)

Seed Required: 2.5 kg per location/entry

DESIGN: Split-plot

REPLICATIONS: Three

PLOT SIZE: GROSS: 1.80 m x 8 m = 14.40 sq. m. (9 rows at 20 cm spacing)
           NET: 1.40 m x 7 m = 9.80 sq. m. (7 inner rows x 7 m long)

FERTILISER 120:60:40 kg N, P₂O₅ and K₂O/ha. Apply 1/3rd nitrogen, full phosphorus and potash to be applied as basal dose and the remaining 2/3rd nitrogen as 1/3rd at first irrigation and 1/3rd at second irrigation.

SEED RATE: 100 kg/ha for timely sown and 125 kg/ha for late and very late sown conditions (Adjust seed rate considering 1000 grains weight as 38 g).

CENTRES: Akola, Dharwad, Niphad, Pune, Washim.

LAYOUT

```
  D₁  D₂  D₃  D₁  D₃  D₁  D₃  D₁  D₂
  R₁  R₂  R₃  4
```

Randomize varieties in sub plots
WHEAT AGRONOMY EXPERIMENT NO. RIR-TS-TAS

PENINSULAR ZONE 2019-2020

TITLE: Performance of new wheat genotypes under restricted irrigation conditions.

OBJECTIVE: To evaluate the performance of timely sown genotypes at different irrigation schedules.

TREATMENTS

A. Irrigation levels (Main-plots):03
   I₁ - No Irrigation
   I₂ - One irrigation at CRI (20-25 DAS)
   I₃ - Two irrigations at CRI and Boot leaf (80-85 DAS)

B. Genotypes (Sub-plots): 07
   1. NIDW 1149 (d)  2. HI 1605 (c)  3. AKDW 2997-16 (dc)  4. UAS 446 (dc)
   5. NIAW 3170 (l)  6. HI 8805 (dl)

Seed Required: 2.5 kg per location/entry

DESIGN: Split-plot
REPLICATIONS: Three
PLOT SIZE: GROSS: 1.80 m x 8 m = 14.40 sq. m. (9 rows at 20 cm spacing)
            NET: 1.40 m x 7 m = 9.80 sq. m. (7 inner rows x 7 m long)
FERTILISER: 90:60:40 kg N₃P₂O₅ and K₂O/ha. Apply full dose of NPK as basal in I₁ and 1/3rd nitrogen, full phosphorus and potash as basal in other treatments and the remaining 2/3rd nitrogen at first irrigation.
SEED RATE: 100 kg/ha (Adjust seed rate considering 1000 grains weight as 38 g).
CENTRES: Akola, Dharwad, Niphad, Pune, Washim.
WHEAT AGRONOMY EXPERIMENT NO. SPL-IR-ES-HYT

NORTH WESTERN PLAINS ZONE 2019-2020

TITLE: Evaluation of wheat genotypes targeted to achieve 8 t/ha productivity

OBJECTIVE: Finalising the package of practices to achieve targeted productivity.

TREATMENTS

A. Nutrient management option (Main-plots): 03
   NM₁  Recommended Fertiliser Dose (RFD)
   NM₂  RFD+ FYM15 t/ha
   NM₃  150% RFD+ FYM15 t/ha+Growth Regulators*  

*NOTE: Two sprays as tank mix-Chlormequat chloride (Lihocin) @ 0.2%+ tebuconazole (Folicur 430 SC) @ 0.1% of commercial product dose at First Node and Flag leaf (Tank mix application)

B. Genotypes (Sub-plots): 04
   1. DBW 187  2. DBW 303  3. DBW 327  4. DBW 328  5. DBW 329
   11. WH 1252  12. WH 1270  13. DBW 222  14. HD 3086 (c)  15. HD 2967 (c)

Seed Required: 2.5 kg per location/entry

SOWING TIME: 20th to 25th October

DESIGN: Split-plot

REPLICATIONS: Three

PLOT SIZE: GROSS: 1.80 m x 8 m = 14.40 sq. m. (9 rows at 20 cm spacing)
            NET:  1.40 m x 7 m = 9.80 sq. m. (7 inner rows x 7 m long)

FERTILISER  Apply 1/3rd nitrogen, full phosphorus and potash as basal dose and
           the remaining 2/3rd nitrogen as 1/3rd at first irrigation and 1/3rd at
           second irrigation.

SEED RATE:  100 kg /ha for timely sown and 125 kg/ha for late and very late sown
           conditions (Adjust seed rate considering 1000 grains weight as 38 g).

CENTRES: Delhi, Gurdaspur, Hisar, Karnal, Ladowal (BISA), Ludhiana, Pantnagar.

LAYOUT

Randomize nutrient treatments in main plots and genotypes in subplots
# LIST OF CENTRES AND COOPERATING SCIENTISTS WORKING UNDER RESOURCE MANAGEMENT PROGRAMME OF THE AICW&BIP (2019-20)

## NORTHERN HILLS ZONE

<table>
<thead>
<tr>
<th>No.</th>
<th>Centre</th>
<th>Scientist/Scientist (Agronomy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Almora</td>
<td>Dr Dibakar Mahanta, Scientist (Agronomy), Division of CPD, VPKAS, Almora, Uttarakhand-263 601.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:dibakar_mahanta@yahoo.com">dibakar_mahanta@yahoo.com</a>, Mobile: 09456108508</td>
</tr>
<tr>
<td>2.</td>
<td>Bajaura*</td>
<td>Dr Gurudev Singh, Assistant Agronomist, CSK HPKV, HAREC, Bajaura-175 125, Kullu, HP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:gdevsaandil@rediffmail.com">gdevsaandil@rediffmail.com</a>, Mobile: 09418479856</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:ahshah71@gmail.com">ahshah71@gmail.com</a>, Mobile: 09906688383.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:adbindra03@yahoo.co.in">adbindra03@yahoo.co.in</a>, Mobile: 094181 49795</td>
</tr>
<tr>
<td>5.</td>
<td>Shimla</td>
<td>Dr Dharam Pal, Senior Scientist (Plant Breeding), IARI Regional Station, Tutikandi, Shimla-171 004, HP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:dpwalia@rediffmail.com">dpwalia@rediffmail.com</a>; Mobile:09817163305</td>
</tr>
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## NORTH WESTERN PLAINS ZONE

<table>
<thead>
<tr>
<th>No.</th>
<th>Centre</th>
<th>Scientist/Scientist (Agronomy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Agra</td>
<td>Dr Sant Bahadur Singh, Head, Department of Agronomy, RBS College, Bichpuri, Agra, UP-283105.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:singhsbrbs28@rediffmail.com">singhsbrbs28@rediffmail.com</a>, Mobile: 8077332948 ,9451113256</td>
</tr>
<tr>
<td>2.</td>
<td>Durgapura*</td>
<td>Dr MR Yadav, Agronomist , AICRP on Wheat and Barley, RARI, Durgapura, Jaipur (Rajasthan)-302015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:mryadavrari@gmail.com">mryadavrari@gmail.com</a>, Mobile:07027930165</td>
</tr>
<tr>
<td>3.</td>
<td>Gurdaspur</td>
<td>Dr (Mrs) Charanjit Kaur, Agronomist, PAU Regional Research Station, Gurdaspur- 143521, Punjab.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:virgocharan@yahoo.com">virgocharan@yahoo.com</a>, Mobile-09417287920</td>
</tr>
<tr>
<td>4.</td>
<td>Hisar*</td>
<td>Dr Bhagat Singh, Assistant Wheat Agronomist, Department of Plant Breeding, CCS HAU, Hisar (Haryana)-125 004.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:bsdahiya@gmail.com">bsdahiya@gmail.com</a>, Mobile:09813078155</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:drmaheshagron@gmail.com">drmaheshagron@gmail.com</a>, Mobile:09419203116</td>
</tr>
<tr>
<td>6.</td>
<td>Karnal</td>
<td>Dr RK Sharma, Principal Investigator &amp; PI (RM), ICAR-IIWBR, Karnal-132001, Haryana</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:RK.Sharma@icar.gov.in">RK.Sharma@icar.gov.in</a>, Mobile: 09416252374</td>
</tr>
<tr>
<td>7.</td>
<td>Ludhiana*</td>
<td>Dr Hari Ram Saharan, Senior Wheat Agronomist, Deptt. of Plant Breeding, and Genetics, PAU, Ludhiana - 141 004.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:hr_saharan@yahoo.com">hr_saharan@yahoo.com</a>, Mobile:09501002967</td>
</tr>
<tr>
<td>8.</td>
<td>New Delhi</td>
<td>Dr Shiva Dhar, Principal Scientist (Agronomy), Division of Agronomy, IARI, New Delhi - 110 012.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:drdmise@gmail.com">drdmise@gmail.com</a>, Mobile:09868354933</td>
</tr>
<tr>
<td>9.</td>
<td>Pantnagar*</td>
<td>Dr VP Singh, Prof (Agronomy), Email: <a href="mailto:singhvijaypal100@gmail.com">singhvijaypal100@gmail.com</a>, Mobile:09451407245</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dr Rajeew Kumar, Jr. Research Officer, Email: <a href="mailto:shuklarajejew@gmail.com">shuklarajejew@gmail.com</a>, Mobile:0941320357</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Agronomy Science, College of Agriculture, GBPUA&amp;T, Pantnagar, US Nagar, Uttarakhand, - 263 145</td>
</tr>
</tbody>
</table>
10. Sriganganagar  Dr Balram Godara, Wheat Agronomist, Agricultural Research Station, Karni Road, Sriganganagar- 335 001, Email: balram.g.ars@gmail.com, Mobile: 09413155287

NORTH EASTERN PLAINS ZONE

1. Burdwan  Dr PK Saha, Chief Agronomist & Ex-officio Joint Director of Agriculture, Dr Sujoy Dutta, Field Crop Research Station, Kalna Road, PO- Burdwan, District- Purba Bardhaman, West Bengal-713 101. Email: cajdacrfs@gmail.com; sujoyagro@rediffmail.com, Mobile: 09474579733, 09434669537.

2. Coochbehar*  Dr Biplab Mitra, Assistant Professor (Sr. Scale), Department of Agronomy, Uttar Banga Krishi Viswavidyalaya, Pundibari, Coochbehar, West Bengal-736165. Email: bipmitra@yahoo.com; Mobile: 09434502292

3. Faizabad*  Dr AK Singh, Agronomist (AICW&BIP), Department of Genetics & Plant Breeding, NDUA&T, Kumarganj, Faizabad- 224 229 (UP).

4. Kalyani*  Dr Dhiman Mukherjee, Associate Prof. (Agronomy), AICWIP, BCKV, Kalyani, District Nadia, West Bengal-741 235.

5. Kanpur*  Dr Ram Ashish Yadav, Professor (Agronomy), Section of EB (Rabi Cereals), CSAUAT, Kanpur- 208 002, UP. Email: ramashish94@yahoo.in; Mobile: 09450129685.

6. Pusa (IARI)  Dr Mohammad Hashim, Scientist (Agronomy), IARI Regional Station, Pusa-848125. Distt. Samastipur, Bihar. Email: hashim.agronomy@rediffmail.com; Mobile:094316 49172

7. PUSA (RAU)  Dr DK Roy, Sr. Scientist (Wheat Agronomist) Deptt. of Agronomy, RAU, Pusa-848 125, Distt. Samastipur, Bihar. Email: dr_dhirendra_krroy@yahoo.com, Mobile: 09430181071


9. Sabour*  Dr Seema, Agronomist, Department of Agronomy, Bihar Agricultural College, Sabour-813 210, District- Bhagalpur, Bihar Email: seemapript.1@gmail.com; Mobile: 09102386608

10. Shillongani*  Dr TP Saikia, Principal Scientist (Agronomy), Regional Agricultural Research Station, Assam Agricultural University, Shillongani, Nagaon-782 002, Assam.

11. Varanasi*  Dr RK Singh, Agronomist (AICW&BIP), Department of Agronomy, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi- 221 005 (UP).

CENTRAL ZONE

1. Bilaspur*  Dr Dinesh Pandey, Scientist (Agron), TCB College of Agriculture & Research Station, IGKV, Sarkanda, Bilaspur, Chhattisgarh, MP-495 001. Phone: 07752-254379-80. Email: pdp1974@rediffmail.com, Mobile: 0908546806

2. Dhandhuka  Dr RN Choudhary, Scientist (Agron), Agricultural Research Station, Anand Agricultural University, Dhandhuka, Gujarat-382460. Email: arsdhk@aua.in, Mobile: 09427007773
3. **Gwalior***
Dr SPS Tomar, Senior Scientist (Agronomy),
Wheat Improvement Project, College of Agriculture,
RVSKV, Gwalior-474 002, MP.
Email: spstomar.agri@hotmail.com; Mobile: 098266 39230

4. **Indore**
Dr KC Sharma, Senior Scientist (Agronomy),
IARI Regional Station, Old Sehore Road, Indore- 452 001, MP.
Email: kc_64sharma@yahoo.com, Mobile: 07489893860

5. **Jabalpur**
Dr Amit Jha, Agronomist,
Wheat Improvement Project, Deptt of Plant Breeding,
JNKVV, Jabalpur-482 004 (MP)
Email: amitagcrewa@rediffmail.com, Mobile: 09479869854

6. **Junagarh***
Dr VB Ramani, Assistant Research Scientist (Agronomy),
Wheat Research Station, JAU, Junagarh-362 001, Gujarat.
Email: vinod@jau.in; Mobile: 09428775044

7. **Powarkheda***
Dr RK Mestram, Wheat Agronomist,
Wheat Improvement Project, Zonal Agricultural Research Station,
Powarkheda, Distt. Hoshangabad, MP-461 110.
Email: kmgrogro06@gmail.com, Mobile: 09179761772

8. **Udaipur***
Dr Jagdish Choudhary, Assist. Professor (Agronomy),
Department of Agronomy, Rajasthan College of Agriculture,
Udaipur, Rajasthan-313 001.
Email: aicrp.wheat.udaipur@gmail.com, jaggiudr@gmail.com, Mobile: 09460632522

9. **Vijapur***
Sh AS Patel, Associate Research Scientist (Agronomy),
Centre of Excellence for Research on Wheat, SD Agricultural University, Vijapur - 382 870, District- Mehsana, Gujarat.
Email: patelamrut1965@gmail.com, Mobile: 09099226333

**PENINSULAR ZONE**

1. **Akola***
Dr PV Mahatale, Agronomist (Wheat),
Wheat Research Unit, Crop Research Station,
PKV, Akola, Maharashtra.
Email: mahatale1978@rediffmail.com, Mobile: 09421755536

2. **Dapoli**
Dr AS Dalvi, Agronomist,
RARS, Karjat, Raigad DBSKKV, Dapoli, Maharashtra.
Email: nnitalvi@gmail.com; Mobile: 09404302826

3. **Dharwad***
Dr Kumar D Lamani, Agronomist (Wheat)
AICW&BIP, UAS, Dharwad-580 005, Karnataka.
Email: kumarlmn@gmail.com; Mobile: 09611809833

4. **Niphad***
Dr S C Wadile, Assistant professor, Agronomy
Agricultural Research Station, MPK, Niphad-422 303,
Distt. Nasik, Maharashtra.
Email: scwadile72@gmail.com, arsniphad@yahoo.co.in; Mobile: 09850576081

5. **Pune***
Dr Vijendra S Baviskar, Scientist ‘B’
Agharkar Research Institute, Experimental Research Farm,
Sortewadi, 8th phata, Post Karanje, Taluka Baramati, District Pune,
Maharashtra – 412 306. Email: vijendra22kar@gmail.com,
vxbaviskar@aripune.org
Phone: 02112 282164; Mobile: 09374174797

6. **Washim**
Dr PS Solunke, Associate Professor,
Agricultural Research Station, Washim, District Washim- 444 505.
Email: pssolunke@yahoo.com; Mobile: 09404512645

7. **Wellington**
Dr M Sivasamy, Senior Scientist,
IARI Regional Station, Wellington, Nilgiris, Tamil Nadu-643 231.
Email: iariwheatsiva@rediffmail.com, iariwheatsiva@gmail.com,
head_well@iari.res.in, Phone: 0423-2237969, Mobile: 09442350239

*Funded Centres*