

## 1901-NIVT-1A-IR-TS-TAS-NAT-ZONE, 2019-20

## LOCATIONWISE MEAN YIELD (q/ha)

| SN               | Variety    | Code  | NWPZ     |    |   |          |    |   |           |    |   |             |    |   |              |    |   |           |    |   |
|------------------|------------|-------|----------|----|---|----------|----|---|-----------|----|---|-------------|----|---|--------------|----|---|-----------|----|---|
|                  |            |       | Delhi    |    |   | Punjab   |    |   | Haryana   |    |   | Uttarakhand |    |   |              |    |   |           |    |   |
|                  |            |       | Delhi    |    |   | Ludhiana |    |   | Gurdaspur |    |   | Hisar       |    |   | IIWBR-Karnal |    |   | Pantnagar |    |   |
|                  |            |       | Yield    | RK | G | Yield    | RK | G | Yield     | RK | G | Yield       | RK | G | Yield        | RK | G | Yield     | RK | G |
| 1                | Raj4548    | N-101 | 43.3     | 27 | 0 | 68.6     | 17 | 0 | 59.3      | 5  | 1 | 65.6        | 14 | 0 | 73.6         | 2  | 1 | 51.6      | 31 | 0 |
| 2                | UP3052     | N-102 | 48.5     | 19 | 0 | 67.2     | 20 | 0 | 51.6      | 13 | 0 | 52.0        | 34 | 0 | 46.1         | 32 | 0 | 58.7      | 17 | 0 |
| 3                | HD3348     | N-103 | 57.8     | 6  | 1 | 66.6     | 21 | 0 | 54.4      | 11 | 0 | 77.2        | 3  | 1 | 64.9         | 15 | 0 | 66.2      | 3  | 1 |
| 4                | DBW334     | N-104 | 50.1     | 15 | 0 | 64.6     | 23 | 0 | 54.8      | 10 | 0 | 56.4        | 30 | 0 | 60.7         | 22 | 0 | 55.1      | 27 | 0 |
| 5                | UP3053     | N-105 | 55.3     | 8  | 1 | 74.5     | 7  | 1 | 62.3      | 4  | 1 | 65.4        | 15 | 0 | 69.8         | 8  | 1 | 64.9      | 4  | 1 |
| 6                | HUW 839    | N-106 | 51.3     | 13 | 0 | 66.5     | 22 | 0 | 43.0      | 23 | 0 | 55.3        | 33 | 0 | 65.4         | 13 | 0 | 62.6      | 9  | 0 |
| 7                | K1901      | N-107 | 50.1     | 15 | 0 | 70.7     | 11 | 1 | 37.5      | 28 | 0 | 64.0        | 18 | 0 | 57.7         | 25 | 0 | 54.2      | 29 | 0 |
| 8                | HD3352     | N-108 | 61.0     | 1  | 1 | 78.0     | 1  | 1 | 37.5      | 29 | 0 | 68.6        | 11 | 0 | 64.1         | 16 | 0 | 59.8      | 14 | 0 |
| 9                | KRL1810    | N-109 | 59.9     | 3  | 1 | 63.9     | 24 | 0 | 49.4      | 18 | 0 | 48.1        | 35 | 0 | 61.0         | 21 | 0 | 52.3      | 30 | 0 |
| 10               | DBW309     | N-110 | 21.0     | 36 | 0 | 75.6     | 5  | 1 | 46.3      | 22 | 0 | 59.9        | 27 | 0 | 68.1         | 10 | 1 | 50.4      | 34 | 0 |
| 11               | PBW828     | N-111 | 48.2     | 20 | 0 | 54.8     | 29 | 0 | 66.1      | 1  | 1 | 63.1        | 20 | 0 | 66.5         | 11 | 0 | 56.7      | 21 | 0 |
| 12               | HD3349     | N-113 | 43.2     | 28 | 0 | 77.1     | 2  | 1 | 46.5      | 21 | 0 | 78.0        | 2  | 1 | 71.6         | 5  | 1 | 55.4      | 24 | 0 |
| 13               | PBW841     | N-114 | 45.0     | 25 | 0 | 72.0     | 9  | 1 | 39.3      | 26 | 0 | 77.0        | 5  | 1 | 55.7         | 26 | 0 | 63.9      | 7  | 1 |
| 14               | PBW829     | N-116 | 31.2     | 35 | 0 | 68.6     | 16 | 0 | 42.6      | 24 | 0 | 61.3        | 24 | 0 | 61.3         | 19 | 0 | 58.5      | 18 | 0 |
| 15               | DBW308     | N-117 | 54.6     | 9  | 1 | 61.6     | 26 | 0 | 46.8      | 20 | 0 | 64.6        | 17 | 0 | 68.5         | 9  | 1 | 67.8      | 2  | 1 |
| 16               | AAI-W29    | N-118 | 32.7     | 34 | 0 | 43.3     | 36 | 0 | 32.8      | 34 | 0 | 45.2        | 36 | 0 | 12.0         | 36 | 0 | 42.8      | 36 | 0 |
| 17               | HD3353     | N-119 | 41.9     | 31 | 0 | 67.7     | 19 | 0 | 55.5      | 9  | 0 | 61.3        | 23 | 0 | 40.0         | 35 | 0 | 55.2      | 26 | 0 |
| 18               | DBW306     | N-120 | 38.4     | 32 | 0 | 51.5     | 30 | 0 | 34.5      | 33 | 0 | 63.3        | 19 | 0 | 63.8         | 18 | 0 | 55.2      | 25 | 0 |
| 19               | WH1284     | N-121 | 49.5     | 18 | 0 | 76.6     | 4  | 1 | 37.2      | 31 | 0 | 61.1        | 25 | 0 | 61.2         | 20 | 0 | 58.0      | 19 | 0 |
| 20               | UP3051     | N-122 | 46.9     | 23 | 0 | 69.3     | 14 | 0 | 35.0      | 32 | 0 | 72.6        | 7  | 1 | 66.4         | 12 | 0 | 51.1      | 33 | 0 |
| 21               | WH1272     | N-123 | 51.6     | 12 | 0 | 69.0     | 15 | 0 | 59.1      | 6  | 0 | 62.4        | 21 | 0 | 40.1         | 34 | 0 | 60.0      | 12 | 0 |
| 22               | HD3350     | N-124 | 51.7     | 11 | 0 | 71.5     | 10 | 1 | 49.8      | 15 | 0 | 71.2        | 9  | 1 | 65.2         | 14 | 0 | 55.0      | 28 | 0 |
| 23               | Raj4547    | N-126 | 50.1     | 17 | 0 | 46.8     | 33 | 0 | 52.3      | 12 | 0 | 60.1        | 26 | 0 | 41.3         | 33 | 0 | 59.0      | 16 | 0 |
| 24               | UP3054     | N-127 | 58.9     | 4  | 1 | 62.6     | 25 | 0 | 49.7      | 16 | 0 | 78.7        | 1  | 1 | 72.7         | 4  | 1 | 68.0      | 1  | 1 |
| 25               | NW7079     | N-128 | 44.1     | 26 | 0 | 48.3     | 32 | 0 | 63.3      | 3  | 1 | 59.7        | 28 | 0 | 49.3         | 30 | 0 | 60.6      | 10 | 0 |
| 26               | PBW827     | N-129 | 42.3     | 30 | 0 | 56.6     | 28 | 0 | 46.9      | 19 | 0 | 66.9        | 13 | 0 | 71.2         | 6  | 1 | 56.3      | 22 | 0 |
| 27               | HD3351     | N-130 | 58.3     | 5  | 1 | 75.5     | 6  | 1 | 49.7      | 17 | 0 | 61.9        | 22 | 0 | 48.1         | 31 | 0 | 63.2      | 8  | 0 |
| 28               | PBW826     | N-132 | 50.7     | 14 | 0 | 76.7     | 3  | 1 | 55.9      | 8  | 0 | 76.8        | 6  | 1 | 70.5         | 7  | 1 | 57.0      | 20 | 0 |
| 29               | Raj4546    | N-133 | 47.4     | 21 | 0 | 68.4     | 18 | 0 | 40.5      | 25 | 0 | 57.0        | 29 | 0 | 63.9         | 17 | 0 | 43.0      | 35 | 0 |
| 30               | WH1273     | N-134 | 53.3     | 10 | 0 | 59.2     | 27 | 0 | 28.6      | 36 | 0 | 67.8        | 12 | 0 | 58.7         | 24 | 0 | 51.2      | 32 | 0 |
| 31               | DBW307     | N-135 | 43.1     | 29 | 0 | 72.9     | 8  | 1 | 38.4      | 27 | 0 | 56.3        | 31 | 0 | 51.6         | 28 | 0 | 59.9      | 13 | 0 |
| 32               | WH1271     | N-136 | 47.4     | 21 | 0 | 70.1     | 12 | 0 | 50.9      | 14 | 0 | 77.1        | 4  | 1 | 79.6         | 1  | 1 | 64.7      | 5  | 1 |
| 33               | K1006 (C)  | N-112 | 36.8     | 33 | 0 | 45.2     | 34 | 0 | 30.9      | 35 | 0 | 55.9        | 32 | 0 | 54.0         | 27 | 0 | 56.0      | 23 | 0 |
| 34               | HD2967 (C) | N-115 | 55.7     | 7  | 1 | 45.1     | 35 | 0 | 37.4      | 30 | 0 | 69.7        | 10 | 0 | 51.2         | 29 | 0 | 60.6      | 11 | 0 |
| 35               | HD3086 (C) | N-125 | 60.9     | 2  | 1 | 49.9     | 31 | 0 | 65.2      | 2  | 1 | 64.8        | 16 | 0 | 58.7         | 23 | 0 | 59.3      | 15 | 0 |
| 36               | DBW187 (C) | N-131 | 45.4     | 24 | 0 | 69.7     | 13 | 0 | 57.2      | 7  | 0 | 71.8        | 8  | 1 | 73.3         | 3  | 1 | 63.9      | 6  | 1 |
| G.M.             |            |       | 48.0     |    |   | 64.6     |    |   | 47.4      |    |   | 64.4        |    |   | 59.7         |    |   | 57.7      |    |   |
| S.E.(M)          |            |       | 2.951    |    |   | 3.273    |    |   | 2.912     |    |   | 3.423       |    |   | 5.413        |    |   | 1.746     |    |   |
| C.D. (10%)       |            |       | 7.0      |    |   | 7.8      |    |   | 7.0       |    |   | 8.2         |    |   | 12.9         |    |   | 4.2       |    |   |
| C.V.             |            |       | 8.7      |    |   | 7.2      |    |   | 8.7       |    |   | 7.5         |    |   | 12.8         |    |   | 4.3       |    |   |
| D.O.S.(dd.mm.yy) |            |       | 13.11.19 |    |   | 08.11.19 |    |   | 14.11.19  |    |   | 01.11.19    |    |   | 01.11.19     |    |   | 07.11.19  |    |   |

No. of Trials : Proposed = 21 Conducted = 21  
Trials not reported (03) = Jammu (LSM), Shillongani (LSM), Ranchi (RMT)

## 1901-NIVT-1A-IR-TS-TAS-NAT-ZONE, 2019-20

## LOCATIONWISE MEAN YIELD (q/ha)

| SN               | Variety    | Code  | NWPZ      |    |   |            |    |   |           |    |   | NEPZ     |    |   |          |    |   |          |    |   |
|------------------|------------|-------|-----------|----|---|------------|----|---|-----------|----|---|----------|----|---|----------|----|---|----------|----|---|
|                  |            |       | Rajasthan |    |   | U.P.       |    |   |           |    |   | U.P.     |    |   |          |    |   |          |    |   |
|                  |            |       | Durgapura |    |   | Bulandshah |    |   | Modipuram |    |   | Kanpur   |    |   | Faizabad |    |   | Varanasi |    |   |
|                  |            |       | Yield     | RK | G | Yield      | RK | G | Yield     | RK | G | Yield    | RK | G | Yield    | RK | G | Yield    | RK | G |
| 1                | Raj4548    | N-101 | 73.5      | 3  | 0 | 56.2       | 9  | 0 | 55.4      | 17 | 0 | 61.8     | 24 | 0 | 49.1     | 30 | 0 | 53.2     | 10 | 0 |
| 2                | UP3052     | N-102 | 48.9      | 28 | 0 | 56.7       | 8  | 0 | 45.8      | 33 | 0 | 60.7     | 26 | 0 | 55.2     | 15 | 0 | 51.7     | 15 | 0 |
| 3                | HD3348     | N-103 | 48.9      | 27 | 0 | 45.5       | 29 | 0 | 50.0      | 24 | 0 | 64.4     | 17 | 1 | 48.6     | 33 | 0 | 54.8     | 5  | 1 |
| 4                | DBW334     | N-104 | 63.2      | 10 | 0 | 63.5       | 3  | 0 | 48.0      | 26 | 0 | 68.8     | 5  | 1 | 55.2     | 15 | 0 | 42.5     | 29 | 0 |
| 5                | UP3053     | N-105 | 45.3      | 33 | 0 | 47.6       | 19 | 0 | 47.8      | 27 | 0 | 70.0     | 4  | 1 | 60.4     | 6  | 1 | 52.6     | 13 | 0 |
| 6                | HUW 839    | N-106 | 58.5      | 16 | 0 | 62.5       | 4  | 0 | 52.2      | 22 | 0 | 65.5     | 13 | 1 | 49.9     | 29 | 0 | 45.3     | 25 | 0 |
| 7                | K1901      | N-107 | 72.2      | 5  | 0 | 47.7       | 17 | 0 | 46.9      | 30 | 0 | 67.6     | 10 | 1 | 50.0     | 28 | 0 | 39.1     | 34 | 0 |
| 8                | HD3352     | N-108 | 59.7      | 14 | 0 | 46.5       | 25 | 0 | 43.8      | 34 | 0 | 55.7     | 31 | 0 | 59.7     | 7  | 1 | 44.0     | 27 | 0 |
| 9                | KRL1810    | N-109 | 31.2      | 35 | 0 | 58.8       | 6  | 0 | 46.1      | 32 | 0 | 64.0     | 21 | 0 | 56.3     | 14 | 0 | 36.1     | 35 | 0 |
| 10               | DBW309     | N-110 | 53.2      | 23 | 0 | 60.7       | 5  | 0 | 52.3      | 21 | 0 | 57.1     | 30 | 0 | 50.2     | 27 | 0 | 50.4     | 17 | 0 |
| 11               | PBW828     | N-111 | 59.4      | 15 | 0 | 67.5       | 1  | 1 | 46.9      | 29 | 0 | 70.3     | 3  | 1 | 57.1     | 13 | 0 | 48.5     | 21 | 0 |
| 12               | HD3349     | N-113 | 64.1      | 9  | 0 | 46.6       | 23 | 0 | 62.8      | 2  | 1 | 67.9     | 9  | 1 | 59.0     | 8  | 1 | 49.2     | 20 | 0 |
| 13               | PBW841     | N-114 | 61.9      | 11 | 0 | 49.9       | 14 | 0 | 52.9      | 20 | 0 | 68.2     | 6  | 1 | 62.9     | 2  | 1 | 50.1     | 18 | 0 |
| 14               | PBW829     | N-116 | 47.8      | 29 | 0 | 41.5       | 34 | 0 | 58.5      | 6  | 0 | 63.9     | 22 | 0 | 54.2     | 17 | 0 | 40.0     | 33 | 0 |
| 15               | DBW308     | N-117 | 55.5      | 21 | 0 | 66.5       | 2  | 1 | 46.5      | 31 | 0 | 62.3     | 23 | 0 | 61.8     | 5  | 1 | 53.8     | 7  | 1 |
| 16               | AAI-W29    | N-118 | 28.8      | 36 | 0 | 47.4       | 20 | 0 | 37.9      | 36 | 0 | 48.7     | 36 | 0 | 47.6     | 35 | 0 | 33.2     | 36 | 0 |
| 17               | HD3353     | N-119 | 55.3      | 22 | 0 | 41.7       | 33 | 0 | 51.8      | 23 | 0 | 64.4     | 18 | 0 | 53.1     | 19 | 0 | 54.3     | 6  | 1 |
| 18               | DBW306     | N-120 | 73.4      | 4  | 0 | 41.3       | 36 | 0 | 57.1      | 10 | 0 | 68.0     | 8  | 1 | 50.9     | 26 | 0 | 56.2     | 2  | 1 |
| 19               | WH1284     | N-121 | 47.5      | 30 | 0 | 57.8       | 7  | 0 | 53.2      | 19 | 0 | 64.0     | 20 | 0 | 63.5     | 1  | 1 | 46.3     | 23 | 0 |
| 20               | UP3051     | N-122 | 56.2      | 19 | 0 | 47.2       | 21 | 0 | 60.6      | 4  | 1 | 64.9     | 16 | 1 | 62.8     | 3  | 1 | 54.9     | 4  | 1 |
| 21               | WH1272     | N-123 | 87.1      | 1  | 1 | 45.8       | 26 | 0 | 63.4      | 1  | 1 | 58.2     | 29 | 0 | 52.8     | 20 | 0 | 43.8     | 28 | 0 |
| 22               | HD3350     | N-124 | 51.1      | 26 | 0 | 54.1       | 10 | 0 | 56.3      | 13 | 0 | 65.1     | 15 | 1 | 51.4     | 25 | 0 | 41.6     | 31 | 0 |
| 23               | Raj4547    | N-126 | 68.3      | 7  | 0 | 45.2       | 30 | 0 | 59.2      | 5  | 1 | 58.5     | 28 | 0 | 51.7     | 24 | 0 | 45.1     | 26 | 0 |
| 24               | UP3054     | N-127 | 61.3      | 12 | 0 | 45.8       | 27 | 0 | 62.5      | 3  | 1 | 67.0     | 12 | 1 | 57.6     | 11 | 0 | 55.1     | 3  | 1 |
| 25               | NW7079     | N-128 | 52.8      | 24 | 0 | 49.7       | 15 | 0 | 57.1      | 9  | 0 | 64.4     | 19 | 0 | 48.3     | 34 | 0 | 53.6     | 9  | 1 |
| 26               | PBW827     | N-129 | 70.7      | 6  | 0 | 41.3       | 35 | 0 | 56.1      | 14 | 0 | 72.0     | 1  | 1 | 51.9     | 22 | 0 | 52.9     | 12 | 0 |
| 27               | HD3351     | N-130 | 56.5      | 18 | 0 | 47.7       | 18 | 0 | 55.8      | 15 | 0 | 52.7     | 35 | 0 | 51.9     | 22 | 0 | 42.4     | 30 | 0 |
| 28               | PBW826     | N-132 | 84.0      | 2  | 1 | 41.8       | 32 | 0 | 55.8      | 15 | 0 | 70.5     | 2  | 1 | 59.0     | 8  | 1 | 52.0     | 14 | 0 |
| 29               | Raj4546    | N-133 | 67.5      | 8  | 0 | 45.6       | 28 | 0 | 54.2      | 18 | 0 | 54.7     | 33 | 0 | 48.8     | 32 | 0 | 45.9     | 24 | 0 |
| 30               | WH1273     | N-134 | 47.4      | 31 | 0 | 47.0       | 22 | 0 | 57.2      | 8  | 0 | 61.4     | 25 | 0 | 62.8     | 3  | 1 | 40.8     | 32 | 0 |
| 31               | DBW307     | N-135 | 52.1      | 25 | 0 | 53.0       | 12 | 0 | 48.4      | 25 | 0 | 59.2     | 27 | 0 | 49.0     | 31 | 0 | 49.9     | 19 | 0 |
| 32               | WH1271     | N-136 | 57.3      | 17 | 0 | 46.5       | 24 | 0 | 56.6      | 12 | 0 | 68.2     | 7  | 1 | 52.1     | 21 | 0 | 46.6     | 22 | 0 |
| 33               | K1006 (C)  | N-112 | 38.4      | 34 | 0 | 53.5       | 11 | 0 | 57.0      | 11 | 0 | 53.3     | 34 | 0 | 54.2     | 17 | 0 | 53.6     | 8  | 1 |
| 34               | HD2967 (C) | N-115 | 46.7      | 32 | 0 | 52.5       | 13 | 0 | 41.8      | 35 | 0 | 65.4     | 14 | 1 | 47.0     | 36 | 0 | 51.5     | 16 | 0 |
| 35               | HD3086 (C) | N-125 | 59.8      | 13 | 0 | 48.2       | 16 | 0 | 47.2      | 28 | 0 | 55.7     | 32 | 0 | 57.3     | 12 | 0 | 56.6     | 1  | 1 |
| 36               | DBW187 (C) | N-131 | 55.9      | 20 | 0 | 44.6       | 31 | 0 | 57.9      | 7  | 0 | 67.2     | 11 | 1 | 58.2     | 10 | 0 | 53.1     | 11 | 0 |
| G.M.             |            |       | 57.3      |    |   | 50.4       |    |   | 52.9      |    |   | 63.1     |    |   | 54.5     |    |   | 48.4     |    |   |
| S.E.(M)          |            |       | 1.815     |    |   | 0.744      |    |   | 1.904     |    |   | 3.147    |    |   | 2.184    |    |   | 1.304    |    |   |
| C.D. (10%)       |            |       | 4.4       |    |   | 1.8        |    |   | 4.5       |    |   | 7.6      |    |   | 5.2      |    |   | 3.1      |    |   |
| C.V.             |            |       | 4.5       |    |   | 2.1        |    |   | 5.1       |    |   | 7.1      |    |   | 5.7      |    |   | 3.8      |    |   |
| D.O.S.(dd.mm.yy) |            |       | 15.11.19  |    |   | 12.11.19   |    |   | 05.11.19  |    |   | 23.11.19 |    |   | 22.11.19 |    |   | 21.11.19 |    |   |

## 1901-NIVT-1A-IR-TS-TAS-NAT-ZONE, 2019-20

## LOCATIONWISE MEAN YIELD (q/ha)

| SN               | Variety    | Code  | NEPZ      |    |   |            |    |   |          |    |   |          |    |           |          |            |   |          |    |   |
|------------------|------------|-------|-----------|----|---|------------|----|---|----------|----|---|----------|----|-----------|----------|------------|---|----------|----|---|
|                  |            |       | Bihar     |    |   |            |    |   | W.B.     |    |   |          |    |           |          |            |   |          |    |   |
|                  |            |       | IARI-Pusa |    |   | RPCAU-Pusa |    |   | Sabour   |    |   | Kalyani  |    | Manikchak |          | Coochbehar |   |          |    |   |
| Yield            | RK         | G     | Yield     | RK | G | Yield      | RK | G | Yield    | RK | G | Yield    | RK | G         | Yield    | RK         | G |          |    |   |
| 1                | Raj4548    | N-101 | 39.2      | 30 | 0 | 47.9       | 8  | 0 | 48.0     | 17 | 0 | 39.2     | 21 | 0         | 37.5     | 26         | 0 | 36.7     | 26 | 0 |
| 2                | UP3052     | N-102 | 47.6      | 8  | 0 | 46.5       | 16 | 0 | 36.2     | 29 | 0 | 47.2     | 4  | 1         | 42.8     | 15         | 0 | 40.7     | 22 | 0 |
| 3                | HD3348     | N-103 | 41.8      | 19 | 0 | 43.8       | 27 | 0 | 50.7     | 13 | 0 | 52.1     | 1  | 1         | 43.5     | 12         | 1 | 51.6     | 6  | 1 |
| 4                | DBW334     | N-104 | 50.1      | 5  | 0 | 47.2       | 11 | 0 | 39.9     | 24 | 0 | 45.5     | 9  | 1         | 37.0     | 28         | 0 | 32.8     | 32 | 0 |
| 5                | UP3053     | N-105 | 42.4      | 17 | 0 | 43.1       | 29 | 0 | 58.7     | 6  | 1 | 44.6     | 11 | 1         | 40.6     | 19         | 0 | 21.7     | 36 | 0 |
| 6                | HUW 839    | N-106 | 44.2      | 14 | 0 | 44.4       | 24 | 0 | 34.9     | 31 | 0 | 46.5     | 7  | 1         | 35.6     | 31         | 0 | 31.8     | 34 | 0 |
| 7                | K1901      | N-107 | 40.6      | 24 | 0 | 42.4       | 31 | 0 | 48.9     | 16 | 0 | 47.6     | 3  | 1         | 39.6     | 22         | 0 | 35.4     | 27 | 0 |
| 8                | HD3352     | N-108 | 44.0      | 15 | 0 | 44.4       | 23 | 0 | 39.5     | 25 | 0 | 45.0     | 10 | 1         | 36.3     | 29         | 0 | 42.7     | 14 | 0 |
| 9                | KRL1810    | N-109 | 38.5      | 31 | 0 | 46.9       | 15 | 0 | 24.4     | 35 | 0 | 38.9     | 23 | 0         | 30.2     | 35         | 0 | 33.5     | 31 | 0 |
| 10               | DBW309     | N-110 | 41.4      | 23 | 0 | 47.2       | 11 | 0 | 58.0     | 7  | 1 | 34.0     | 34 | 0         | 45.0     | 8          | 1 | 42.3     | 17 | 0 |
| 11               | PBW828     | N-111 | 47.2      | 10 | 0 | 50.0       | 5  | 0 | 51.8     | 10 | 0 | 38.8     | 24 | 0         | 38.7     | 24         | 0 | 47.0     | 10 | 0 |
| 12               | HD3349     | N-113 | 52.3      | 1  | 1 | 47.2       | 11 | 0 | 63.3     | 1  | 1 | 33.2     | 36 | 0         | 47.9     | 4          | 1 | 35.1     | 28 | 0 |
| 13               | PBW841     | N-114 | 51.7      | 3  | 1 | 47.8       | 10 | 0 | 34.5     | 32 | 0 | 38.2     | 27 | 0         | 44.6     | 9          | 1 | 41.1     | 21 | 0 |
| 14               | PBW829     | N-116 | 44.5      | 13 | 0 | 53.5       | 3  | 1 | 59.2     | 4  | 1 | 46.5     | 5  | 1         | 43.0     | 14         | 1 | 46.8     | 11 | 0 |
| 15               | DBW308     | N-117 | 34.5      | 34 | 0 | 48.6       | 7  | 0 | 43.1     | 22 | 0 | 40.1     | 19 | 0         | 42.1     | 17         | 0 | 53.5     | 2  | 1 |
| 16               | AAI-W29    | N-118 | 42.8      | 16 | 0 | 42.4       | 31 | 0 | 21.4     | 36 | 0 | 38.2     | 27 | 0         | 26.5     | 36         | 0 | 40.4     | 24 | 0 |
| 17               | HD3353     | N-119 | 33.1      | 35 | 0 | 45.8       | 20 | 0 | 41.5     | 23 | 0 | 37.9     | 30 | 0         | 33.1     | 33         | 0 | 34.2     | 30 | 0 |
| 18               | DBW306     | N-120 | 31.6      | 36 | 0 | 42.4       | 31 | 0 | 47.4     | 19 | 0 | 41.7     | 16 | 0         | 44.5     | 10         | 1 | 43.0     | 12 | 0 |
| 19               | WH1284     | N-121 | 41.6      | 21 | 0 | 44.4       | 24 | 0 | 38.3     | 27 | 0 | 42.2     | 14 | 0         | 45.3     | 7          | 1 | 50.3     | 7  | 1 |
| 20               | UP3051     | N-122 | 40.6      | 25 | 0 | 51.4       | 4  | 1 | 60.3     | 3  | 1 | 41.7     | 17 | 0         | 51.4     | 1          | 1 | 42.4     | 16 | 0 |
| 21               | WH1272     | N-123 | 48.3      | 6  | 0 | 43.1       | 29 | 0 | 51.1     | 12 | 0 | 33.7     | 35 | 0         | 36.3     | 30         | 0 | 32.0     | 33 | 0 |
| 22               | HD3350     | N-124 | 39.2      | 29 | 0 | 47.2       | 11 | 0 | 43.9     | 21 | 0 | 37.1     | 32 | 0         | 38.4     | 25         | 0 | 53.0     | 3  | 1 |
| 23               | Raj4547    | N-126 | 46.4      | 11 | 0 | 41.0       | 34 | 0 | 37.5     | 28 | 0 | 38.6     | 25 | 0         | 39.3     | 23         | 0 | 34.6     | 29 | 0 |
| 24               | UP3054     | N-127 | 39.6      | 28 | 0 | 45.1       | 21 | 0 | 59.2     | 5  | 1 | 45.5     | 8  | 1         | 48.5     | 3          | 1 | 31.5     | 35 | 0 |
| 25               | NW7079     | N-128 | 50.4      | 4  | 0 | 39.6       | 36 | 0 | 47.7     | 18 | 0 | 39.3     | 20 | 0         | 40.3     | 20         | 0 | 41.2     | 20 | 0 |
| 26               | PBW827     | N-129 | 38.4      | 32 | 0 | 47.9       | 8  | 0 | 63.2     | 2  | 1 | 44.5     | 12 | 1         | 47.0     | 5          | 1 | 42.1     | 18 | 0 |
| 27               | HD3351     | N-130 | 47.3      | 9  | 0 | 49.3       | 6  | 0 | 33.5     | 33 | 0 | 38.2     | 27 | 0         | 34.5     | 32         | 0 | 52.9     | 4  | 1 |
| 28               | PBW826     | N-132 | 46.3      | 12 | 0 | 45.8       | 18 | 0 | 51.2     | 11 | 0 | 43.7     | 13 | 0         | 40.2     | 21         | 0 | 51.9     | 5  | 1 |
| 29               | Raj4546    | N-133 | 35.5      | 33 | 0 | 44.4       | 24 | 0 | 53.2     | 9  | 0 | 40.3     | 18 | 0         | 44.1     | 11         | 1 | 38.2     | 25 | 0 |
| 30               | WH1273     | N-134 | 47.9      | 7  | 0 | 40.3       | 35 | 0 | 26.9     | 34 | 0 | 39.1     | 22 | 0         | 32.0     | 34         | 0 | 41.9     | 19 | 0 |
| 31               | DBW307     | N-135 | 40.2      | 26 | 0 | 55.6       | 2  | 1 | 50.0     | 14 | 0 | 37.4     | 31 | 0         | 47.0     | 6          | 1 | 42.9     | 13 | 0 |
| 32               | WH1271     | N-136 | 51.8      | 2  | 1 | 43.4       | 28 | 0 | 45.3     | 20 | 0 | 37.0     | 33 | 0         | 40.8     | 18         | 0 | 49.5     | 8  | 0 |
| 33               | K1006 (C)  | N-112 | 41.8      | 20 | 0 | 45.1       | 21 | 0 | 39.2     | 26 | 0 | 42.1     | 15 | 0         | 42.3     | 16         | 0 | 40.5     | 23 | 0 |
| 34               | HD2967 (C) | N-115 | 41.6      | 22 | 0 | 46.5       | 16 | 0 | 35.6     | 30 | 0 | 38.3     | 26 | 0         | 37.3     | 27         | 0 | 55.2     | 1  | 1 |
| 35               | HD3086 (C) | N-125 | 42.0      | 18 | 0 | 55.9       | 1  | 1 | 49.6     | 15 | 0 | 49.4     | 2  | 1         | 43.2     | 13         | 1 | 49.3     | 9  | 0 |
| 36               | DBW187 (C) | N-131 | 39.6      | 27 | 0 | 45.8       | 18 | 0 | 54.9     | 8  | 0 | 46.5     | 5  | 1         | 50.0     | 2          | 1 | 42.5     | 15 | 0 |
| G.M.             |            |       | 42.9      |    |   | 46.2       |    |   | 45.6     |    |   | 41.4     |    |           | 40.7     |            |   | 41.7     |    |   |
| S.E.(M)          |            |       | 0.782     |    |   | 1.984      |    |   | 2.993    |    |   | 3.185    |    |           | 3.575    |            |   | 2.191    |    |   |
| C.D. (10%)       |            |       | 1.9       |    |   | 4.7        |    |   | 7.2      |    |   | 7.6      |    |           | 8.5      |            |   | 5.3      |    |   |
| C.V.             |            |       | 2.6       |    |   | 6.1        |    |   | 9.3      |    |   | 10.9     |    |           | 12.4     |            |   | 7.4      |    |   |
| D.O.S.(dd.mm.yy) |            |       | 18.11.19  |    |   | 20.11.19   |    |   | 15.11.19 |    |   | 19.11.19 |    |           | 20.11.19 |            |   | 18.11.19 |    |   |

**1901-NIVT-1A-IR-TS-TAS-NAT-ZONE, 2019-20**  
**ZONAL AND NATIONAL MEANS (q/ha)**

| SN         | Variety    | Code  | NWPZ  |    |   | NEPZ  |    |   | NATIONAL |    |   |
|------------|------------|-------|-------|----|---|-------|----|---|----------|----|---|
|            |            |       | Yield | RK | G | Yield | RK | G | Yield    | RK | G |
| 1          | Raj4548    | N-101 | 60.8  | 4  | 0 | 45.9  | 24 | 0 | 53.3     | 13 | 0 |
| 2          | UP3052     | N-102 | 52.8  | 29 | 0 | 47.6  | 17 | 0 | 50.2     | 28 | 0 |
| 3          | HD3348     | N-103 | 59.1  | 10 | 0 | 50.1  | 8  | 0 | 54.6     | 6  | 0 |
| 4          | DBW334     | N-104 | 57.4  | 17 | 0 | 46.6  | 21 | 0 | 52.0     | 18 | 0 |
| 5          | UP3053     | N-105 | 59.2  | 8  | 0 | 48.2  | 15 | 0 | 53.7     | 12 | 0 |
| 6          | HUW 839    | N-106 | 57.5  | 15 | 0 | 44.2  | 31 | 0 | 50.8     | 22 | 0 |
| 7          | K1901      | N-107 | 55.7  | 22 | 0 | 45.7  | 27 | 0 | 50.7     | 24 | 0 |
| 8          | HD3352     | N-108 | 57.7  | 13 | 0 | 45.7  | 26 | 0 | 51.7     | 19 | 0 |
| 9          | KRL1810    | N-109 | 52.3  | 31 | 0 | 41.0  | 35 | 0 | 46.6     | 35 | 0 |
| 10         | DBW309     | N-110 | 54.2  | 24 | 0 | 47.3  | 18 | 0 | 50.7     | 23 | 0 |
| 11         | PBW828     | N-111 | 58.8  | 11 | 0 | 49.9  | 9  | 0 | 54.4     | 7  | 0 |
| 12         | HD3349     | N-113 | 60.6  | 5  | 0 | 50.6  | 6  | 1 | 55.6     | 3  | 0 |
| 13         | PBW841     | N-114 | 57.5  | 14 | 0 | 48.8  | 12 | 0 | 53.2     | 14 | 0 |
| 14         | PBW829     | N-116 | 52.4  | 30 | 0 | 50.2  | 7  | 0 | 51.3     | 20 | 0 |
| 15         | DBW308     | N-117 | 59.2  | 9  | 0 | 48.9  | 11 | 0 | 54.0     | 10 | 0 |
| 16         | AAI-W29    | N-118 | 35.9  | 36 | 0 | 37.9  | 36 | 0 | 36.9     | 36 | 0 |
| 17         | HD3353     | N-119 | 52.3  | 33 | 0 | 44.2  | 32 | 0 | 48.2     | 32 | 0 |
| 18         | DBW306     | N-120 | 53.2  | 27 | 0 | 47.3  | 19 | 0 | 50.2     | 27 | 0 |
| 19         | WH1284     | N-121 | 55.8  | 21 | 0 | 48.4  | 13 | 0 | 52.1     | 16 | 0 |
| 20         | UP3051     | N-122 | 56.1  | 20 | 0 | 52.3  | 1  | 1 | 54.2     | 8  | 0 |
| 21         | WH1272     | N-123 | 59.9  | 7  | 0 | 44.4  | 30 | 0 | 52.1     | 17 | 0 |
| 22         | HD3350     | N-124 | 58.4  | 12 | 0 | 46.3  | 23 | 0 | 52.4     | 15 | 0 |
| 23         | Raj4547    | N-126 | 53.6  | 26 | 0 | 43.6  | 34 | 0 | 48.6     | 31 | 0 |
| 24         | UP3054     | N-127 | 62.2  | 2  | 1 | 49.9  | 10 | 0 | 56.1     | 2  | 1 |
| 25         | NW7079     | N-128 | 53.9  | 25 | 0 | 47.2  | 20 | 0 | 50.5     | 25 | 0 |
| 26         | PBW827     | N-129 | 56.5  | 19 | 0 | 51.1  | 3  | 1 | 53.8     | 11 | 0 |
| 27         | HD3351     | N-130 | 57.4  | 16 | 0 | 44.8  | 29 | 0 | 51.1     | 21 | 0 |
| 28         | PBW826     | N-132 | 63.2  | 1  | 1 | 51.2  | 2  | 1 | 57.2     | 1  | 1 |
| 29         | Raj4546    | N-133 | 54.2  | 23 | 0 | 45.0  | 28 | 0 | 49.6     | 29 | 0 |
| 30         | WH1273     | N-134 | 52.3  | 32 | 0 | 43.7  | 33 | 0 | 48.0     | 33 | 0 |
| 31         | DBW307     | N-135 | 52.8  | 28 | 0 | 47.9  | 16 | 0 | 50.4     | 26 | 0 |
| 32         | WH1271     | N-136 | 61.1  | 3  | 1 | 48.3  | 14 | 0 | 54.7     | 5  | 0 |
| 33         | K1006 (C)  | N-112 | 47.5  | 35 | 0 | 45.8  | 25 | 0 | 46.7     | 34 | 0 |
| 34         | HD2967 (C) | N-115 | 51.2  | 34 | 0 | 46.5  | 22 | 0 | 48.8     | 30 | 0 |
| 35         | HD3086 (C) | N-125 | 57.1  | 18 | 0 | 51.0  | 4  | 1 | 54.1     | 9  | 0 |
| 36         | DBW187 (C) | N-131 | 60.0  | 6  | 0 | 50.9  | 5  | 1 | 55.4     | 4  | 0 |
| G.M.       |            |       | 55.8  |    |   | 47.2  |    |   | 51.5     |    |   |
| S.E.(M)    |            |       | 0.990 |    |   | 0.843 |    |   | 0.650    |    |   |
| C.D. (10%) |            |       | 2.3   |    |   | 2.0   |    |   | 1.5      |    |   |

**Summary of Disease Data and Agronomic Characteristics**

North Western Plains Zone

Trial: NIVT-1A-IR-TS-TAS, 2019-20

| SN | Variety    | Code  | Disease Reaction |      |      | Agronomic Characteristics |         |      |         |       |         |      |      | Grain Characteristics |      |      |       |       |
|----|------------|-------|------------------|------|------|---------------------------|---------|------|---------|-------|---------|------|------|-----------------------|------|------|-------|-------|
|    |            |       | YI               | ACI  | Br   | ACI                       | Hd.R    | Hd.M | Mat.R   | Mat.M | Ht.R    | Ht.M | Lod. | Thr.                  | Col. | Tex. | TGW.R | TGW.M |
| 1  | Raj4548    | N-101 | 20S              | 8.6  | 10S  | 4.0                       | 79-110  | 91   | 140-165 | 149   | 90-112  | 101  | 20   | Ey                    | A    | H    | 34-49 | 43    |
| 2  | UP3052     | N-102 | 80S              | 32.9 | 10S  | 2.2                       | 97-112  | 104  | 146-168 | 154   | 92-114  | 105  | 20   | Ey                    | A    | SH   | 30-37 | 35    |
| 3  | HD3348     | N-103 | 20S              | 10.0 | tS   | 0.2                       | 98-113  | 106  | 144-165 | 156   | 85-127  | 105  | 15   | Ey                    | A    | SH   | 35-54 | 45    |
| 4  | DBW334     | N-104 | 60S              | 33.6 | 5S   | 1.2                       | 89-112  | 102  | 144-165 | 154   | 85-113  | 103  | 20   | Ey                    | A    | SH   | 32-48 | 39    |
| 5  | UP3053     | N-105 | 40S              | 23.6 | 10S  | 2.0                       | 95-116  | 104  | 144-168 | 154   | 85-118  | 105  | 25   | Ey                    | A    | SH   | 30-50 | 41    |
| 6  | HUW 839    | N-106 | 20S              | 9.0  | 0    | 0.0                       | 86-115  | 104  | 142-165 | 153   | 84-123  | 105  | 15   | Ey                    | A    | SH   | 33-44 | 39    |
| 7  | K1901      | N-107 | 80S              | 27.7 | 5S   | 1.0                       | 90-110  | 101  | 143-165 | 152   | 95-115  | 105  | 15   | Ey                    | A    | SH   | 34-46 | 42    |
| 8  | HD3352     | N-108 | 40S              | 12.9 | 10S  | 3.0                       | 99-110  | 106  | 144-160 | 154   | 80-109  | 101  | 15   | Ey                    | A    | SH   | 33-47 | 41    |
| 9  | KRL1810    | N-109 | 40S              | 19.3 | 10S  | 3.0                       | 99-115  | 108  | 145-165 | 155   | 85-121  | 107  | 20   | Ey                    | A    | H    | 30-50 | 43    |
| 10 | DBW309     | N-110 | 40S              | 23.6 | 5S   | 1.0                       | 88-116  | 101  | 139-165 | 151   | 88-114  | 102  | 20   | Ey                    | A    | SH   | 31-53 | 41    |
| 11 | PBW828     | N-111 | 60S              | 25.7 | 5S   | 2.0                       | 90-115  | 101  | 141-165 | 153   | 87-113  | 103  | 20   | Ey                    | A    | SH   | 34-46 | 42    |
| 12 | HD3349     | N-113 | 10S              | 3.7  | 0    | 0.0                       | 89-115  | 99   | 140-165 | 150   | 90-115  | 105  | 20   | Ey                    | A    | H    | 34-46 | 41    |
| 13 | PBW841     | N-114 | 40S              | 9.6  | 0    | 0.0                       | 100-112 | 106  | 145-169 | 155   | 78-112  | 101  | 20   | Ey                    | A    | SH   | 30-46 | 39    |
| 14 | PBW829     | N-116 | 10S              | 2.7  | 5S   | 1.0                       | 100-112 | 106  | 145-162 | 152   | 90-106  | 99   | 20   | Ey                    | A    | SH   | 29-51 | 41    |
| 15 | DBW308     | N-117 | 20S              | 7.1  | 5S   | 1.0                       | 99-112  | 105  | 143-161 | 154   | 85-114  | 101  | 25   | Ey                    | A    | H    | 35-47 | 43    |
| 16 | AAI-W29    | N-118 | 80S              | 60.0 | 40S  | 20.0                      | 100-116 | 105  | 144-162 | 153   | 95-127  | 108  | 10   | Ey                    | A    | H    | 23-47 | 35    |
| 17 | HD3353     | N-119 | 60S              | 32.0 | 10S  | 2.0                       | 91-112  | 104  | 142-162 | 153   | 75-117  | 103  | 25   | Ey                    | A    | SH   | 33-45 | 38    |
| 18 | DBW306     | N-120 | 20S              | 10.9 | 5S   | 1.2                       | 93-112  | 102  | 144-161 | 153   | 92-112  | 105  | 20   | Ey                    | A    | SH   | 32-55 | 45    |
| 19 | WH1284     | N-121 | 60S              | 28.6 | 10MR | 0.8                       | 89-112  | 101  | 144-165 | 152   | 87-117  | 104  | 20   | Ey                    | A    | SH   | 34-47 | 39    |
| 20 | UP3051     | N-122 | 80S              | 34.0 | 20S  | 4.0                       | 96-110  | 104  | 144-165 | 154   | 95-117  | 106  | 25   | Ey                    | A    | SH   | 35-51 | 41    |
| 21 | WH1272     | N-123 | 80S              | 20.0 | 10MS | 1.6                       | 95-116  | 106  | 143-165 | 152   | 90-113  | 102  | 15   | Ey                    | A    | H    | 28-48 | 39    |
| 22 | HD3350     | N-124 | 60S              | 22.1 | 10S  | 2.2                       | 88-114  | 100  | 143-162 | 153   | 88-112  | 100  | 25   | Ey                    | A    | H    | 36-49 | 43    |
| 23 | Raj4547    | N-126 | 60S              | 32.0 | 0    | 0.0                       | 96-112  | 104  | 144-162 | 153   | 85-111  | 100  | 20   | Ey                    | A    | SH   | 27-42 | 37    |
| 24 | UP3054     | N-127 | 40S              | 13.4 | 5S   | 1.0                       | 95-112  | 103  | 142-160 | 152   | 85-113  | 102  | 15   | Ey                    | A    | H    | 33-53 | 45    |
| 25 | NW7079     | N-128 | 60S              | 28.3 | 20S  | 5.0                       | 93-112  | 103  | 143-162 | 151   | 90-119  | 105  | 15   | Ey                    | A    | H    | 34-41 | 38    |
| 26 | PBW827     | N-129 | 20S              | 2.9  | 0    | 0.0                       | 94-114  | 105  | 141-165 | 152   | 94-117  | 104  | 10   | Ey                    | A    | SH   | 33-50 | 44    |
| 27 | HD3351     | N-130 | 60S              | 32.1 | 40S  | 9.0                       | 95-110  | 103  | 144-160 | 153   | 88-120  | 105  | 10   | Ey                    | A    | SH   | 35-54 | 43    |
| 28 | PBW826     | N-132 | 60S              | 20.0 | 10S  | 2.0                       | 89-116  | 99   | 142-165 | 151   | 80-117  | 99   | 15   | Ey                    | A    | SH   | 36-50 | 44    |
| 29 | Raj4546    | N-133 | 60S              | 16.3 | 5MR  | 0.4                       | 85-116  | 98   | 144-165 | 151   | 104-131 | 111  | 20   | Ey                    | A    | SH   | 40-50 | 45    |
| 30 | WH1273     | N-134 | 40S              | 11.4 | 5S   | 1.0                       | 99-116  | 106  | 145-165 | 153   | 82-111  | 100  | 10   | Ey                    | A    | SH   | 25-46 | 37    |
| 31 | DBW307     | N-135 | 60S              | 26.3 | 5S   | 1.0                       | 91-112  | 102  | 143-165 | 153   | 85-116  | 104  | 25   | Ey                    | A    | H    | 31-47 | 40    |
| 32 | WH1271     | N-136 | 20S              | 6.4  | 5S   | 1.8                       | 99-116  | 105  | 145-165 | 155   | 80-112  | 101  | 10   | Ey                    | A    | SH   | 33-57 | 43    |
| 33 | K1006 (C)  | N-112 | 60S              | 34.3 | 5S   | 1.0                       | 94-116  | 102  | 145-165 | 155   | 92-114  | 102  | 20   | Ey                    | A    | H    | 31-44 | 38    |
| 34 | HD2967 (C) | N-115 | 40S              | 25.7 | 20S  | 4.0                       | 102-119 | 109  | 145-165 | 157   | 88-115  | 102  | 15   | Ey                    | A    | SH   | 30-45 | 39    |
| 35 | HD3086 (C) | N-125 | 60S              | 26.3 | 20S  | 7.0                       | 94-112  | 101  | 143-162 | 152   | 70-113  | 99   | 15   | Ey                    | A    | SH   | 33-46 | 40    |
| 36 | DBW187 (C) | N-131 | 10S              | 4.6  | 5S   | 1.0                       | 91-114  | 101  | 143-162 | 153   | 75-115  | 101  | 30   | Ey                    | A    | SH   | 32-53 | 43    |

1. Ancillary data from Bulandshahr, Modipuram, Durgapura, Delhi, Jammu, Ludhiana, Gurdaspur, Hisar, Karnal and Pantnagar.
2. Yellow rust data from Delhi, Hisar, Jammu, Ludhiana, Gurdaspur, Pantnagar and Karnal.
3. Brown rust data from Delhi, Hisar, Jammu, Ludhiana, Pantnagar.

**NIVT-1A-IR-TS-TAS, 2019-20**  
**North Western Plains Zone**  
**Individual Station Rust Data**

| S. No. | Variety    | Code  | Yellow Rust |          |       |           |       |        |           | Brown Rust |          |       |           |       |
|--------|------------|-------|-------------|----------|-------|-----------|-------|--------|-----------|------------|----------|-------|-----------|-------|
|        |            |       | Jammu       | Ludhiana | Hisar | Pantnagar | Delhi | Karnal | Gurdaspur | Jammu      | Ludhiana | Hisar | Pantnagar | Delhi |
| 1      | Raj4548    | N-101 | 20S         | 10S      | 0     | 0         | 0     | 20S    | 10S       | 10S        | 0        | 0     | 0         | 10S   |
| 2      | UP3052     | N-102 | 40S         | 40S      | 20S   | 10S       | 0     | 80S    | 40S       | 0          | 0        | 0     | tS        | 10S   |
| 3      | HD3348     | N-103 | 20S         | 10S      | 0     | 0         | 0     | 20S    | 20S       | 0          | 0        | 0     | tMS       | 0     |
| 4      | DBW334     | N-104 | 60S         | 60S      | 0     | 5S        | 10S   | 60S    | 40S       | 0          | 0        | 5S    | tS        | 0     |
| 5      | UP3053     | N-105 | 40S         | 40S      | 0     | 5S        | 0     | 40S    | 40S       | 0          | 0        | 0     | 0         | 10S   |
| 6      | HUW 839    | N-106 | 20S         | 20MS     | 5S    | 5MS       | 0     | 5MR    | 20MS      | 0          | 0        | 0     | 0         | 0     |
| 7      | K1901      | N-107 | 60S         | 10S      | 0     | 5MS       | 0     | 80S    | 40S       | 0          | 0        | 0     | 0         | 5S    |
| 8      | HD3352     | N-108 | 20S         | 10S      | 0     | 0         | 0     | 40S    | 20S       | 0          | 0        | 0     | 5S        | 10S   |
| 9      | KRL1810    | N-109 | 40S         | 10S      | 0     | 5S        | 0     | 40S    | 40S       | 0          | 0        | 10S   | 0         | 5S    |
| 10     | DBW309     | N-110 | 40S         | 40S      | 0     | 5S        | 0     | 40S    | 40S       | 0          | 0        | 0     | 5S        | 0     |
| 11     | PBW828     | N-111 | 60S         | 40S      | 0     | 0         | 0     | 60S    | 20S       | 0          | 0        | 5S    | tMS       | 10MR  |
| 12     | HD3349     | N-113 | 10S         | 5MR      | 0     | 0         | 5S    | 10MR   | 5S        | 0          | 0        | 0     | 0         | 0     |
| 13     | PBW841     | N-114 | 0           | 5MR      | 0     | 0         | 5S    | 40S    | 20S       | 0          | 0        | 0     | 0         | 0     |
| 14     | PBW829     | N-116 | 10S         | 5MR      | 0     | 0         | 0     | 5MR    | 5S        | 0          | 0        | 0     | 0         | 5S    |
| 15     | DBW308     | N-117 | 10S         | 20S      | 0     | 0         | 0     | 10S    | 10S       | 0          | 0        | 0     | 0         | 5S    |
| 16     | AAI-W29    | N-118 | 80S         | 80S      | 40S   | 40S       | 20S   | 80S    | 80S       | 0          | 0        | 40S   | 20S       | 40S   |
| 17     | HD3353     | N-119 | 60S         | 40S      | 0     | 5MS       | 0     | 60S    | 60S       | 0          | 0        | 0     | 0         | 10S   |
| 18     | DBW306     | N-120 | 20S         | 20S      | 5S    | tS        | 0     | 20S    | 10S       | 0          | 0        | 0     | tMS       | 5S    |
| 19     | WH1284     | N-121 | 60S         | 60S      | 0     | 0         | 0     | 60S    | 20S       | 0          | 0        | 0     | 0         | 10MR  |
| 20     | UP3051     | N-122 | 60S         | 40S      | 5MS   | 5MS       | 10S   | 80S    | 40S       | 0          | 0        | 0     | 0         | 20S   |
| 21     | WH1272     | N-123 | 0           | 40S      | 0     | 0         | 0     | 60S    | 40S       | 0          | 0        | 0     | 0         | 10MS  |
| 22     | HD3350     | N-124 | 60S         | 40S      | 5S    | tMS       | 0     | 40S    | 10S       | 0          | 0        | 0     | tS        | 10S   |
| 23     | Raj4547    | N-126 | 60S         | 60S      | 5MS   | tMS       | 0     | 60S    | 40S       | 0          | 0        | 0     | 0         | 0     |
| 24     | UP3054     | N-127 | 10S         | 20S      | 0     | 5MS       | 0     | 40S    | 20S       | 0          | 5S       | 0     | 0         | 0     |
| 25     | NW7079     | N-128 | 60S         | 60S      | 5MS   | 5MS       | 0     | 60S    | 10S       | 0          | 0        | 0     | 5S        | 20S   |
| 26     | PBW827     | N-129 | 0           | 0        | 0     | 0         | 0     | 20S    | tR        | 0          | 0        | 0     | 0         | 0     |
| 27     | HD3351     | N-130 | 60S         | 60S      | 0     | 5S        | 0     | 60S    | 40S       | 0          | 0        | 0     | 5S        | 40S   |
| 28     | PBW826     | N-132 | 20S         | 40S      | 5S    | 5S        | 0     | 60S    | 10S       | 0          | 0        | 0     | 0         | 10S   |
| 29     | Raj4546    | N-133 | 60S         | 20S      | 5MR   | 5MS       | 0     | 10MS   | 20S       | 0          | 0        | 0     | 0         | 5MR   |
| 30     | WH1273     | N-134 | 10S         | 20S      | 0     | 0         | 0     | 40S    | 10S       | 0          | 0        | 0     | 0         | 5S    |
| 31     | DBW307     | N-135 | 60S         | 20S      | 0     | 5MS       | 0     | 60S    | 40S       | 0          | 0        | 0     | 0         | 5S    |
| 32     | WH1271     | N-136 | 5S          | 10S      | 0     | 5S        | 0     | 20S    | 5S        | 5MS        | 0        | 0     | 0         | 5S    |
| 33     | K1006 (C)  | N-112 | 40S         | 60S      | 10S   | 10S       | 0     | 60S    | 60S       | 0          | 0        | 0     | 0         | 5S    |
| 34     | HD2967 (C) | N-115 | 20S         | 40S      | 20S   | 20S       | 0     | 40S    | 40S       | 0          | 0        | 0     | 0         | 20S   |
| 35     | HD3086 (C) | N-125 | 60S         | 40S      | 5MS   | 5S        | 0     | 60S    | 20S       | 0          | 20S      | 0     | 10S       | 5S    |
| 36     | DBW187 (C) | N-131 | 10S         | 10S      | 0     | 0         | 0     | 10S    | 5MR       | 0          | 0        | 0     | 0         | 5S    |

**Summary of Disease Data and Agronomic Characteristics**

**North Eastern Plains Zone**

**Trial: NIVT-1A-IR-TS-TAS, 2019-20**

| SN | Variety    | Code  | Disease Reaction |     |      |             | Agronomic Characteristics |      |         |       |         |      |      | Grain Characteristics |      |      |       |       |
|----|------------|-------|------------------|-----|------|-------------|---------------------------|------|---------|-------|---------|------|------|-----------------------|------|------|-------|-------|
|    |            |       | YI               | Br  | ACI  | LB (HS, Av) | Hd.R                      | Hd.M | Mat.R   | Mat.M | Ht.R    | Ht.M | Lod. | Thr.                  | Col. | Tex. | TGW.R | TGW.M |
| 1  | Raj4548    | N-101 | 0                | 0   | 0.0  | 79(35)      | 54-83                     | 71   | 108-128 | 120   | 84-101  | 93   | 15   | Ey                    | A    | SH   | 37-55 | 43    |
| 2  | UP3052     | N-102 | 0                | 30S | 6.0  | 78(34)      | 69-90                     | 82   | 114-133 | 126   | 89-108  | 100  | 25   | Ey                    | A    | SH   | 29-40 | 35    |
| 3  | HD3348     | N-103 | 0                | 20S | 6.0  | 46(34)      | 74-91                     | 84   | 115-136 | 127   | 92-106  | 100  | 10   | Ey                    | A    | SH   | 32-53 | 42    |
| 4  | DBW334     | N-104 | 0                | 40S | 24.0 | 68(35)      | 71-89                     | 80   | 111-131 | 126   | 89-101  | 96   | 10   | Ey                    | A    | SH   | 31-48 | 40    |
| 5  | UP3053     | N-105 | 0                | 20S | 4.0  | 68(35)      | 72-89                     | 81   | 112-131 | 125   | 93-106  | 99   | 20   | Ey                    | A    | SH   | 34-48 | 41    |
| 6  | HUW 839    | N-106 | 0                | 0   | 0.0  | 46(36)      | 76-90                     | 84   | 117-135 | 127   | 86-110  | 103  | 5    | Ey                    | A    | SH   | 34-51 | 41    |
| 7  | K1901      | N-107 | 0                | 60S | 16.0 | 68(46)      | 65-87                     | 78   | 110-129 | 121   | 91-111  | 100  | 10   | Ey                    | A    | SO   | 34-48 | 40    |
| 8  | HD3352     | N-108 | 0                | 80S | 40.0 | 79(34)      | 75-92                     | 85   | 113-137 | 127   | 85-105  | 95   | 15   | Ey                    | A    | SH   | 34-44 | 39    |
| 9  | KRL1810    | N-109 | 0                | 10S | 4.0  | 68(36)      | 79-95                     | 91   | 127-136 | 131   | 96-113  | 106  | 15   | Ey                    | A    | SH   | 28-48 | 40    |
| 10 | DBW309     | N-110 | 0                | 30S | 10.0 | 57(36)      | 64-87                     | 77   | 105-134 | 124   | 86-102  | 94   | 10   | Ey                    | A    | SH   | 35-48 | 40    |
| 11 | PBW828     | N-111 | 0                | 20S | 12.0 | 68(46)      | 69-85                     | 78   | 113-131 | 124   | 91-120  | 103  | 10   | Ey                    | A    | SH   | 35-48 | 41    |
| 12 | HD3349     | N-113 | 0                | 30S | 10.0 | 58(35)      | 63-83                     | 74   | 106-127 | 121   | 96-108  | 100  | 20   | Ey                    | A    | SH   | 36-49 | 41    |
| 13 | PBW841     | N-114 | 0                | 0   | 0.0  | 46(34)      | 76-91                     | 85   | 118-133 | 128   | 87-107  | 97   | 15   | Ey                    | A    | SH   | 35-47 | 39    |
| 14 | PBW829     | N-116 | 0                | 5MS | 0.0  | 57(35)      | 77-91                     | 85   | 117-133 | 127   | 89-103  | 95   | 20   | Ey                    | A    | SH   | 29-49 | 41    |
| 15 | DBW308     | N-117 | 0                | 5S  | 1.0  | 35(24)      | 79-92                     | 85   | 120-136 | 129   | 89-108  | 98   | 15   | Ey                    | A    | SH   | 36-49 | 42    |
| 16 | AAI-W29    | N-118 | 20S              | 90S | 58.0 | 68(25)      | 71-94                     | 84   | 115-141 | 129   | 98-119  | 110  | 10   | Ey                    | A    | SH   | 33-47 | 41    |
| 17 | HD3353     | N-119 | 0                | 30S | 8.0  | 69(35)      | 72-87                     | 81   | 111-131 | 125   | 89-107  | 98   | 25   | Ey                    | A    | SH   | 35-53 | 43    |
| 18 | DBW306     | N-120 | 0                | 20S | 4.0  | 68(35)      | 69-86                     | 78   | 110-130 | 123   | 93-113  | 100  | 20   | Ey                    | A    | SH   | 36-54 | 46    |
| 19 | WH1284     | N-121 | 0                | 20S | 6.0  | 57(35)      | 66-84                     | 78   | 113-131 | 124   | 90-108  | 100  | 20   | Ey                    | A    | SH   | 32-44 | 39    |
| 20 | UP3051     | N-122 | 0                | 20S | 5.0  | 68(35)      | 72-92                     | 82   | 114-135 | 125   | 96-107  | 102  | 20   | Ey                    | A    | SH   | 30-48 | 41    |
| 21 | WH1272     | N-123 | 0                | 0   | 0.0  | 79(35)      | 77-92                     | 84   | 118-130 | 126   | 88-101  | 95   | 15   | Ey                    | A    | SH   | 28-41 | 37    |
| 22 | HD3350     | N-124 | 0                | 20S | 9.0  | 68(45)      | 64-86                     | 75   | 106-133 | 122   | 91-106  | 99   | 20   | Ey                    | A    | H    | 36-49 | 41    |
| 23 | Raj4547    | N-126 | 0                | 10S | 4.0  | 68(35)      | 77-91                     | 84   | 118-134 | 127   | 93-111  | 100  | 10   | Ey                    | A    | SH   | 27-46 | 38    |
| 24 | UP3054     | N-127 | 0                | 40S | 9.0  | 57(35)      | 74-89                     | 81   | 113-134 | 126   | 88-99   | 95   | 20   | Ey                    | A    | SH   | 37-51 | 44    |
| 25 | NW7079     | N-128 | 0                | 50S | 30.0 | 57(35)      | 70-90                     | 82   | 116-132 | 126   | 93-111  | 103  | 15   | Ey                    | A    | SH   | 32-44 | 39    |
| 26 | PBW827     | N-129 | 0                | 20S | 4.0  | 68(35)      | 73-88                     | 82   | 112-130 | 125   | 92-104  | 97   | 5    | Ey                    | A    | SH   | 35-52 | 41    |
| 27 | HD3351     | N-130 | 0                | 30S | 7.0  | 68(45)      | 74-90                     | 83   | 114-136 | 127   | 101-115 | 106  | 5    | Ey                    | A    | SH   | 36-55 | 43    |
| 28 | PBW826     | N-132 | 0                | 20S | 6.0  | 68(35)      | 63-85                     | 77   | 104-135 | 123   | 88-106  | 95   | 10   | Ey                    | A    | SH   | 36-56 | 46    |
| 29 | Raj4546    | N-133 | 0                | 10S | 4.0  | 68(35)      | 62-81                     | 74   | 100-129 | 121   | 97-112  | 104  | 20   | Ey                    | A    | SH   | 36-54 | 45    |
| 30 | WH1273     | N-134 | 0                | 5S  | 2.0  | 57(34)      | 75-93                     | 85   | 114-137 | 129   | 90-109  | 97   | 15   | Ey                    | A    | SH   | 33-50 | 39    |
| 31 | DBW307     | N-135 | 0                | 40S | 24.0 | 68(35)      | 70-87                     | 78   | 109-130 | 123   | 93-114  | 102  | 20   | Ey                    | A    | SH   | 29-44 | 40    |
| 32 | WH1271     | N-136 | 0                | 20S | 4.0  | 57(34)      | 75-92                     | 84   | 116-137 | 128   | 88-108  | 95   | 5    | Ey                    | A    | SH   | 34-45 | 42    |
| 33 | K1006 (C)  | N-112 | 0                | 60S | 28.0 | 78(35)      | 64-88                     | 77   | 107-133 | 123   | 90-106  | 97   | 25   | Ey                    | A    | H    | 35-47 | 41    |
| 34 | HD2967 (C) | N-115 | 40S              | 10S | 2.0  | 35(13)      | 65-99                     | 91   | 115-142 | 132   | 94-107  | 100  | 15   | Ey                    | A    | SH   | 35-45 | 39    |
| 35 | HD3086 (C) | N-125 | 0                | 40S | 20.0 | 79(45)      | 69-85                     | 77   | 111-131 | 123   | 89-103  | 98   | 15   | Ey                    | A    | H    | 33-52 | 39    |
| 36 | DBW187 (C) | N-131 | 0                | 0   | 0.0  | 68(35)      | 69-85                     | 78   | 110-131 | 123   | 97-107  | 101  | 20   | Ey                    | A    | SH   | 36-48 | 42    |

1. Ancillary data from Kanpur, Faizabad, IARI-Pusa, RPCAU-Pusa, Varanasi, Kalyani, Ranchi, Sabour, Manikchak, Coochbehar and Shillongani.
2. Lodging data from Varanasi, Faizabad, RPCAU-Pusa, Sabour, Kalyani, Coochbehar and Shillongani.
3. Leaf blight data from Kanpur, Faizabad, Varanasi, Ranchi, Kalyani, Sabour, Coochbehar, Manikchak and Shillongani.
4. Yellow rust data from Kanpur center only; Brown rust data from Kanpur, Pusa, Sabour, Kalyani and Coochbehar.

**NIVT-1A-IR-TS-TAS, 2019-20**  
**North Eastern Plains Zone**  
**Individual Station Rust Data**

| SN | Variety    | Code  | Yellow Rust | Brown Rust |           |         |        |            |
|----|------------|-------|-------------|------------|-----------|---------|--------|------------|
|    |            |       | Kanpur      | Kanpur     | IARI-Pusa | Kalyani | Sabour | Coochbehar |
| 1  | Raj4548    | N-101 | 0           | 0          | 0         | 0       | 0      | 0          |
| 2  | UP3052     | N-102 | 0           | 0          | 0         | 0       | 30S    | 0          |
| 3  | HD3348     | N-103 | 0           | 0          | 5S        | 5S      | 20S    | 0          |
| 4  | DBW334     | N-104 | 0           | 20S        | 40S       | 40S     | 20S    | 0          |
| 5  | UP3053     | N-105 | 0           | 0          | 0         | 0       | 20S    | 0          |
| 6  | HUW 839    | N-106 | 0           | 0          | 0         | 0       | 0      | 0          |
| 7  | K1901      | N-107 | 0           | 20S        | 60S       | 0       | 0      | 0          |
| 8  | HD3352     | N-108 | 0           | 10S        | 60S       | 20S     | 80S    | 30S        |
| 9  | KRL1810    | N-109 | 0           | 0          | 10S       | 0       | 0      | 10S        |
| 10 | DBW309     | N-110 | 0           | 0          | 20S       | 0       | 30S    | 0          |
| 11 | PBW828     | N-111 | 0           | 20S        | 10S       | 10S     | 20S    | 0          |
| 37 | HD3349     | N-113 | 0           | 0          | 30S       | 0       | 20S    | 0          |
| 13 | PBW841     | N-114 | 0           | 0          | 0         | 0       | 0      | 0          |
| 14 | PBW829     | N-116 | 0           | 0          | 0         | 0       | 0      | 0          |
| 38 | DBW308     | N-117 | 0           | 0          | 5S        | 0       | 0      | 0          |
| 16 | AAI-W29    | N-118 | 20S         | 40S        | 80S       | 80S     | 90S    | 0          |
| 17 | HD3353     | N-119 | 0           | 5S         | 5S        | 0       | 30S    | 0          |
| 18 | DBW306     | N-120 | 0           | 0          | 0         | 0       | 20S    | 0          |
| 19 | WH1284     | N-121 | 0           | 0          | 10S       | 0       | 20S    | 0          |
| 20 | UP3051     | N-122 | 0           | 0          | 5S        | 0       | 20S    | 0          |
| 21 | WH1272     | N-123 | 0           | 0          | 0         | 0       | 0      | 0          |
| 22 | HD3350     | N-124 | 0           | 10S        | 5S        | 10S     | 20S    | 0          |
| 23 | Raj4547    | N-126 | 0           | 10S        | 10S       | 0       | 0      | 0          |
| 24 | UP3054     | N-127 | 0           | 40S        | 5S        | 0       | 0      | 0          |
| 39 | NW7079     | N-128 | 0           | 40S        | 30S       | 0       | 30S    | 50S        |
| 26 | PBW827     | N-129 | 0           | 0          | 20S       | 0       | 0      | 0          |
| 27 | HD3351     | N-130 | 0           | 0          | 5S        | 0       | 30S    | 0          |
| 28 | PBW826     | N-132 | 0           | 0          | 20S       | 0       | 10S    | 0          |
| 29 | Raj4546    | N-133 | 0           | 0          | 10S       | 0       | 10S    | 0          |
| 30 | WH1273     | N-134 | 0           | 0          | 0         | 0       | 10S    | 0          |
| 40 | DBW307     | N-135 | 0           | 40S        | 30S       | 0       | 20S    | 30S        |
| 32 | WH1271     | N-136 | 0           | 0          | 20S       | 0       | 0      | 0          |
| 33 | K1006 (C)  | N-112 | 0           | 10S        | 60S       | 20S     | 20S    | 30S        |
| 34 | HD2967 (C) | N-115 | 40S         | 0          | 0         | 0       | 10S    | 0          |
| 35 | HD3086 (C) | N-125 | 0           | 20S        | 40S       | 0       | 40S    | 0          |
| 36 | DBW187 (C) | N-131 | 0           | 0          | 0         | 0       | 0      | 0          |

**NIVT-1A-IR-TS-TAS, 2019-20**  
**North Eastern Plains Zone**  
**Individual Station Leaf Blight Data**

| SN | Variety    | Code  | Faizabad | Varanasi | Cooch Behar | Kalyani | Manikchak | Ranchi | IARI-Pusa | Sabour | Shillongani |
|----|------------|-------|----------|----------|-------------|---------|-----------|--------|-----------|--------|-------------|
| 1  | Raj4548    | N-101 | 24       | 68       | 23          | 79      | 14        | 03     | 23        | 68     | 46          |
| 2  | UP3052     | N-102 | 25       | 35       | 34          | 35      | 12        | 02     | 24        | 78     | 24          |
| 3  | HD3348     | N-103 | 12       | 46       | 34          | 45      | 13        | 12     | 34        | 46     | 24          |
| 4  | DBW334     | N-104 | 23       | 68       | 34          | 58      | 14        | 13     | 35        | 57     | 46          |
| 5  | UP3053     | N-105 | 24       | 35       | 45          | 68      | 13        | 03     | 34        | 57     | 46          |
| 6  | HUW 839    | N-106 | 46       | 46       | 45          | 45      | 13        | 13     | 23        | 46     | 46          |
| 7  | K1901      | N-107 | 57       | 68       | 34          | 68      | 14        | 14     | 45        | 57     | 46          |
| 8  | HD3352     | N-108 | 12       | 57       | 34          | 25      | 13        | 02     | 34        | 79     | 12          |
| 9  | KRL1810    | N-109 | 23       | 57       | 34          | 35      | 12        | 13     | 25        | 68     | 24          |
| 10 | DBW309     | N-110 | 45       | 57       | 23          | 57      | 13        | 13     | 34        | 35     | 24          |
| 11 | PBW828     | N-111 | 36       | 68       | 34          | 68      | 12        | 23     | 35        | 46     | 46          |
| 12 | HD3349     | N-113 | 46       | 58       | 34          | 57      | 14        | 24     | 34        | 35     | 36          |
| 13 | PBW841     | N-114 | 35       | 36       | 23          | 45      | 13        | 13     | 23        | 46     | 36          |
| 14 | PBW829     | N-116 | 46       | 24       | 34          | 46      | 14        | 03     | 34        | 57     | 24          |
| 15 | DBW308     | N-117 | 24       | 35       | 34          | 24      | 12        | 23     | 23        | 35     | 12          |
| 16 | AAI-W29    | N-118 | 23       | 46       | 34          | 36      | 13        | 13     | 45        | 68     | 24          |
| 17 | HD3353     | N-119 | 12       | 46       | 34          | 69      | 00        | 13     | 34        | 68     | 46          |
| 18 | DBW306     | N-120 | 12       | 36       | 45          | 68      | 12        | 24     | 35        | 57     | 46          |
| 19 | WH1284     | N-121 | 23       | 57       | 34          | 45      | 14        | 24     | 23        | 46     | 36          |
| 20 | UP3051     | N-122 | 46       | 57       | 34          | 57      | 00        | 13     | 23        | 68     | 36          |
| 21 | WH1272     | N-123 | 24       | 68       | 34          | 46      | 12        | 13     | 35        | 79     | 46          |
| 22 | HD3350     | N-124 | 45       | 67       | 34          | 68      | 14        | 03     | 45        | 57     | 46          |
| 23 | Raj4547    | N-126 | 25       | 57       | 23          | 37      | 14        | 14     | 46        | 68     | 24          |
| 24 | UP3054     | N-127 | 24       | 57       | 45          | 35      | 12        | 15     | 34        | 46     | 36          |
| 25 | NW7079     | N-128 | 35       | 57       | 34          | 46      | 12        | 13     | 25        | 46     | 24          |
| 26 | PBW827     | N-129 | 36       | 57       | 34          | 67      | 13        | 24     | 24        | 68     | 36          |
| 27 | HD3351     | N-130 | 45       | 68       | 34          | 68      | 14        | 13     | 34        | 57     | 46          |
| 28 | PBW826     | N-132 | 24       | 68       | 23          | 47      | 13        | 03     | 45        | 35     | 46          |
| 29 | Raj4546    | N-133 | 46       | 24       | 23          | 68      | 13        | 02     | 34        | 57     | 25          |
| 30 | WH1273     | N-134 | 56       | 35       | 34          | 35      | 12        | 13     | 45        | 57     | 12          |
| 31 | DBW307     | N-135 | 24       | 46       | 34          | 57      | 14        | 24     | 34        | 68     | 24          |
| 32 | WH1271     | N-136 | 23       | 46       | 23          | 47      | 12        | 13     | 34        | 57     | 25          |
| 33 | K1006 (C)  | N-112 | 24       | 57       | 34          | 78      | 13        | 03     | 34        | 68     | 24          |
| 34 | HD2967 (C) | N-115 | 24       | 01       | 12          | 12      | 13        | 23     | 23        | 35     | 12          |
| 35 | HD3086 (C) | N-125 | 23       | 78       | 34          | 79      | 13        | 12     | 45        | 68     | 36          |
| 36 | DBW187 (C) | N-131 | 23       | 57       | 34          | 68      | 13        | 03     | 34        | 46     | 36          |