

Table I: PEST SCOUTING REPORT OF WHEAT CROP FOR THE 4TH WEEK OF FEBRUARY, 2019

| DISTRICT WISE SUMMARY | | | | | | | | | | | |
|------------------------------|----------------------------|------------------------------------|------------------------|------------------------|----------------------------|----------------------------|-------------------|--------------------|-----------------------|---------------------|---------------|
| District | Total Spots Visited | Total Area Surveyed (Acres) | % Pest Insects | | Beneficials / spike | % Disease Incidence | | | | | |
| | | | Spots Above ETL | Spots Below ETL | | Smut | Brown Rust | Yellow Rust | Powdery Mildew | Downy Mildew | Others |
| | | | Aphid | Aphid | | | | | | | |
| RICE ZONE | | | | | | | | | | | |
| GUJRANWALA | 237 | 1557 | 0.00 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HAFIZABAD | 72 | 1165 | 0.00 | 5.56 | 0.00 | 0.00 | 0.00 | 15.28 | 0.00 | 0.00 | 0.00 |
| SHEIKHUPURA | 194 | 2650 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.55 | 0.00 | 0.00 | 0.00 |
| FEROZEWALA | 42 | 354 | 0.00 | 11.90 | 0.00 | 0.00 | 0.00 | 7.14 | 0.00 | 0.00 | 0.00 |
| SIALKOT | 196 | 1443 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.02 | 0.00 | 0.00 | 0.00 |
| NAROWAL | 124 | 1225 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.65 | 0.00 | 0.00 | 0.00 |
| GUJRAT | 25 | 234 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.00 | 0.00 | 0.00 | 0.00 |
| M.B.DIN | 72 | 583 | 0.00 | 19.44 | 0.01 | 0.00 | 0.00 | 5.56 | 0.00 | 0.00 | 0.00 |
| KASUR | 123 | 599 | 0.00 | 7.32 | 0.00 | 0.00 | 0.00 | 1.63 | 0.00 | 0.00 | 0.00 |
| LAHORE | 62 | 611 | 0.00 | 9.68 | 0.00 | 1.61 | 0.00 | 8.06 | 0.00 | 0.00 | 0.00 |
| NANKANA | 101 | 547.75 | 0.00 | 4.95 | 0.00 | 0.99 | 0.00 | 0.99 | 0.00 | 0.00 | 0.00 |
| TOTAL RICE ZONE | 1248 | 10968.75 | 0.00 | 3.61 | 0.00 | 0.16 | 0.00 | 3.37 | 0.00 | 0.00 | 0.00 |
| COTTON ZONE | | | | | | | | | | | |
| MULTAN | 141 | 1821 | 0.00 | 21.28 | 0.05-0.15 | 0.00 | 0.00 | 7.09 | 0.00 | 0.00 | 0.00 |
| LODHRAN | 180 | 1542 | 0.00 | 9.44 | 0.05-0.1 | 0.00 | 0.00 | 3.33 | 0.00 | 0.00 | 0.00 |
| KHANEWAL | 175 | 1518 | 0.00 | 8.00 | 0.05-0.1 | 0.00 | 0.00 | 4.57 | 0.00 | 0.00 | 0.00 |

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|--------------------------|---------------------|-----------------------------|-----------------|-----------------|---------------------|---------------------|-------------|-------------|----------------|--------------|-------------|
| | | | Spots Above ETL | Spots Below ETL | | Smut | Brown Rust | Yellow Rust | Powdery Mildew | Downy Mildew | Others |
| | | | Aphid | Aphid | | | | | | | |
| VEHARI | 150 | 1336 | 0.00 | 5.33 | 0.05-0.1 | 0.00 | 0.00 | 2.67 | 0.00 | 0.00 | 0.00 |
| SAHIWAL | 90 | 453 | 0.00 | 10.00 | 0.00 | 0.00 | 2.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| PAKPATTAN | 85 | 660 | 0.00 | 0.00 | 0.00 | 0.00 | 2.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| OKARA | 93 | 479 | 0.00 | 0.00 | 0.00 | 0.00 | 3.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| BAHAWALPUR | 190 | 1610 | 0.00 | 12.63 | 0.00 | 0.00 | 0.00 | 7.37 | 0.00 | 0.00 | 0.00 |
| BAHAWALNAGAR | 208 | 1668 | 0.00 | 14.42 | 0.00 | 0.48 | 0.00 | 6.25 | 0.00 | 0.00 | 0.00 |
| JHANG | 185 | 1554 | 0.00 | 1.62 | 1.08 | 0.00 | 0.00 | 1.62 | 0.00 | 0.00 | 0.00 |
| R.Y.KHAN | 192 | 1612 | 0.00 | 17.71 | 0.00 | 0.00 | 0.00 | 2.08 | 0.00 | 0.00 | 0.00 |
| D.G.KHAN | 211 | 885 | 0.00 | 3.79 | 0.00 | 0.00 | 0.00 | 1.90 | 0.00 | 0.00 | 0.00 |
| M.GARH | 201 | 986 | 0.00 | 3.48 | 0.00 | 0.00 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 |
| RAJANPUR | 132 | 747 | 0.00 | 12.88 | 0.1-0.5 | 0.00 | 5.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| T.T.SING | 160 | 741 | 0.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.63 | 0.00 | 0.00 | 0.00 |
| CHINIOT | 67 | 339 | 0.00 | 17.91 | 0.00 | 0.00 | 0.00 | 4.48 | 0.00 | 0.00 | 0.00 |
| FAISALABAD | 128 | 634.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.00 | 0.00 |
| SARGODHA | 124 | 861.5 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 1.61 | 0.00 | 0.00 | 0.00 |
| TOTAL COTTON ZONE | 2712 | 19447 | 0.00 | 7.96 | 0.05-0.5 | 0.07 | 0.66 | 2.69 | 0.00 | 0.00 | 0.00 |
| BARANI ZONE | | | | | | | | | | | |
| MIANWALI | 120 | 626 | 0.00 | 0.00 | 0.00 | 0.83 | 0.00 | 4.17 | 0.00 | 0.00 | 0.00 |

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|--------------------------|---------------------|-----------------------------|-----------------|-----------------|---------------------|---------------------|-------------|-------------|----------------|--------------|-------------|
| | | | Spots Above ETL | Spots Below ETL | | Smut | Brown Rust | Yellow Rust | Powdery Mildew | Downy Mildew | Others |
| | | | Aphid | Aphid | | | | | | | |
| BHAKHAR | 93 | 469 | 0.00 | 6.45 | 0.00 | 1.08 | 0.00 | 6.45 | 0.00 | 0.00 | 0.00 |
| LAYYAH | 161 | 992 | 0.00 | 6.21 | 0.01-0.4 | 0.00 | 2.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| CHAKWAL | 48 | 214.625 | 0.00 | 12.50 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| JHELMUM | 7 | 13 | 0.00 | 57.14 | 2.86 | 0.00 | 0.00 | 28.57 | 0.00 | 0.00 | 0.00 |
| ATTOCK | 10 | 9.4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RAWALPINDI | 80 | 221.4 | 1.25 | 11.25 | 0.00 | 0.00 | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 |
| KHUSHAB | 41 | 265 | 0.00 | 9.76 | 0.00 | 0.00 | 0.00 | 2.44 | 0.00 | 0.00 | 0.00 |
| TOTAL BARANI ZONE | 560 | 2810.425 | 0.18 | 6.96 | 0.01-0.4 | 0.36 | 0.71 | 2.68 | 0.00 | 0.00 | 0.00 |
| G.TOTAL 2019 | 4520 | 33226.175 | 0.02 | 6.64 | 0-0.5 | 0.13 | 0.49 | 2.88 | 0.00 | 0.00 | 0.00 |

OBSERVATIONS

1. Total 4520 spots of wheat fields comprising area of 33226.17 acres in 36 districts were surveyed for pests.
2. **Aphid** infestation AETL has been observed on 0.02% spots in Punjab in in district Rawalpindi & infestation BETL has been observed on 6.64% spots in most of the districts in Punjab .
3. **Smut** incidence (0.13% spots) has been observed in most of the districts in the Punjab .
4. **Brown Rust** incidence (0.49% spots) has been observed in the Punjab in 7 different districts with expected increase in incidence and intensity.
5. **Yellow Rust** incidence (2.88% spots) has been observed in different districts in Punjab with expected increase in incidence and intensity.

RECOMMENDATIONS

1. Treat aphid infested spots with pressurized water.
2. Spray suitable fungicide in case of severe infection of Rust.