

Rice-2006
Grain yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|------------|---|--------------|--------------|--------------|--------------|---------------|--------------|
| T1 | Conventional (CV) | 3.82 | 3.95 | 3.56 | 3.53 | 14.86 | 3.72 |
| T2 | CV+WR(Wheat residue) | 3.45 | 3.63 | 3.69 | 3.93 | 14.70 | 3.68 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 3.67 | 3.60 | 3.86 | 3.56 | 14.69 | 3.67 |
| T4 | DSR-RT+WR | 3.49 | 3.33 | 3.58 | 3.41 | 13.81 | 3.45 |
| T5 | Zero tillage (ZT) | 3.29 | 3.56 | 3.42 | 3.02 | 13.29 | 3.32 |
| T6 | ZT+WRR | 3.29 | 3.30 | 3.11 | 3.45 | 13.15 | 3.29 |
| T7 | PRB (Permanent Raised beds in Rice) | 3.42 | 3.06 | 3.06 | 3.05 | 12.59 | 3.15 |
| T8 | FRB (Fresh raised beds) | 3.92 | 3.65 | 3.37 | 3.02 | 13.96 | 3.49 |
| T9 | ZT+DSR+S(Sesbania) | 3.25 | 3.62 | 3.49 | 3.63 | 13.99 | 3.50 |
| T10 | ZT+DGM (Daincha green manuring) | 3.01 | 2.79 | 2.49 | 2.59 | 10.88 | 2.72 |
| Total | | 34.61 | 34.49 | 33.63 | 33.19 | 135.92 | 33.98 |
| Avg. | | 3.46 | 3.45 | 3.36 | 3.32 | 13.59 | 3.40 |

Rice-2007
Grain yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|------------|---|--------------|--------------|--------------|--------------|---------------|--------------|
| T1 | Conventional (CV) | 3.85 | 3.91 | 4.07 | 3.50 | 15.33 | 3.83 |
| T2 | CV+WR(Wheat residue) | 3.83 | 3.79 | 3.16 | 3.54 | 14.32 | 3.58 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 3.74 | 3.72 | 4.03 | 3.61 | 15.10 | 3.78 |
| T4 | DSR-RT+WR | 3.57 | 3.69 | 3.72 | 3.65 | 14.63 | 3.66 |
| T5 | Zero tillage (ZT) | 3.79 | 3.65 | 3.75 | 3.75 | 14.94 | 3.74 |
| T6 | ZT+WRR | 3.89 | 3.53 | 3.63 | 3.41 | 14.46 | 3.62 |
| T7 | PRB (Permanent Raised beds in Rice) | 3.32 | 3.40 | 3.44 | 3.20 | 13.36 | 3.34 |
| T8 | FRB (Fresh raised beds) | 3.09 | 3.36 | 2.46 | 2.97 | 11.88 | 2.97 |
| T9 | ZT+DSR+S(Sesbania) | 3.96 | 3.77 | 2.91 | 2.68 | 13.32 | 3.33 |
| T10 | ZT+DGM (Daincha green manuring) | 2.84 | 2.93 | 2.40 | 2.72 | 10.89 | 2.72 |
| Total | | 35.88 | 35.75 | 33.57 | 33.03 | 138.23 | 34.56 |
| Avg. | | 3.59 | 3.58 | 3.36 | 3.30 | 13.82 | 3.46 |

Rice-2008
Grain yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|-------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|
| T1 | Conventional (CV) | 7.31 | 7.10 | 7.10 | 6.86 | 28.37 | 7.09 |
| T2 | CV+WR(Wheat residue) | 7.85 | 7.46 | 7.31 | 7.08 | 29.70 | 7.43 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 6.55 | 6.35 | 6.24 | 6.47 | 25.61 | 6.40 |
| T4 | DSR-RT+WR | 6.08 | 5.64 | 5.92 | 6.20 | 23.84 | 5.96 |
| T5 | Zero tillage (ZT) | 6.73 | 6.38 | 6.11 | 6.21 | 25.43 | 6.36 |
| T6 | ZT+WRR | 5.66 | 4.65 | 4.47 | 5.05 | 19.83 | 4.96 |
| T7 | PRB (Permanent Raised beds in Rice) | 5.33 | 5.13 | 5.27 | 5.33 | 21.06 | 5.27 |
| T8 | FRB (Fresh raised beds) | 7.06 | 6.75 | 6.73 | 7.14 | 27.68 | 6.92 |
| T9 | ZT+DSR+S(Sesbania) | 6.25 | 5.66 | 5.95 | 5.88 | 23.74 | 5.94 |
| T10 | ZT+DGM (Daincha green manuring) | 6.81 | 7.16 | 6.69 | 6.55 | 27.21 | 6.80 |
| Total | | 65.63 | 62.28 | 61.79 | 62.77 | 252.47 | 63.12 |
| Avg. | | 6.56 | 6.23 | 6.18 | 6.28 | 25.25 | 6.31 |

Rice-2009
Grain yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|------------|---|--------------|--------------|--------------|--------------|--------|--------------|
| T1 | Conventional (CV) | 8.20 | 8.48 | 8.84 | 9.20 | 34.72 | 8.68 |
| T2 | CV+WR(Wheat residue) | 8.00 | 8.00 | 8.60 | 8.80 | 33.40 | 8.35 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 6.00 | 4.80 | 4.30 | 4.80 | 19.90 | 4.98 |
| T4 | DSR-RT+WR | 5.28 | 5.20 | 5.24 | 5.24 | 20.96 | 5.24 |
| T5 | Zero tillage (ZT) | 4.72 | 4.16 | 4.32 | 4.80 | 18.00 | 4.50 |
| T6 | ZT+WRR | 3.00 | 1.60 | 1.00 | 2.40 | 8.00 | 2.00 |
| T7 | PRB (Permanent Raised beds in Rice) | 4.28 | 4.12 | 3.32 | 4.28 | 16.00 | 4.00 |
| T8 | FRB (Fresh raised beds) | 7.28 | 7.04 | 6.72 | 7.12 | 28.16 | 7.04 |
| T9 | ZT+DSR+S(Sesbania) | 3.08 | 4.36 | 2.80 | 2.88 | 13.12 | 3.28 |
| T10 | ZT+DGM (Daincha green manuring) | 8.84 | 8.80 | 8.72 | 8.40 | 34.76 | 8.69 |
| Total | | 58.68 | 56.56 | 53.86 | 57.92 | 227.02 | 56.76 |
| Avg. | | 5.87 | 5.66 | 5.39 | 5.79 | 22.70 | 5.68 |

Rice-2009
Straw yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|------------|---|--------------|--------------|--------------|--------------|--------|--------------|
| T1 | Conventional (CV) | 11.48 | 11.64 | 11.60 | 11.80 | 46.52 | 11.63 |
| T2 | CV+WR(Wheat residue) | 10.20 | 8.80 | 9.00 | 9.20 | 37.20 | 9.30 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 6.80 | 6.00 | 5.20 | 5.80 | 23.80 | 5.95 |
| T4 | DSR-RT+WR | 4.20 | 4.28 | 4.36 | 4.36 | 17.20 | 4.30 |
| T5 | Zero tillage (ZT) | 6.00 | 5.60 | 5.80 | 6.40 | 23.80 | 5.95 |
| T6 | ZT+WRR | 2.76 | 1.48 | 0.96 | 2.00 | 7.20 | 1.80 |
| T7 | PRB (Permanent Raised beds in Rice) | 5.16 | 4.12 | 3.32 | 4.28 | 16.88 | 4.22 |
| T8 | FRB (Fresh raised beds) | 9.20 | 8.20 | 8.00 | 8.60 | 34.00 | 8.50 |
| T9 | ZT+DSR+S(Sesbania) | 4.80 | 6.00 | 4.60 | 4.60 | 20.00 | 5.00 |
| T10 | ZT+DGM (Daincha green manuring) | 10.60 | 10.60 | 10.40 | 10.20 | 41.80 | 10.45 |
| Total | | 71.20 | 66.72 | 63.24 | 67.24 | 268.40 | 67.10 |
| Avg. | | 7.12 | 6.67 | 6.32 | 6.72 | 26.84 | 6.71 |

Rice-2009
Biological yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|--------------|--|---------------|---------------|--------------|---------------|---------------|---------------|
| T1 | Conventional (CV) | 19.68 | 20.12 | 20.44 | 21.00 | 81.24 | 20.31 |
| T2 | CV+WR(Wheat residue) | 18.20 | 16.80 | 17.60 | 18.00 | 70.6 | 17.65 |
| T3 | DSR-RT(Direct seeded rice- reduced tillage) | 12.80 | 10.80 | 9.50 | 10.60 | 43.7 | 10.93 |
| T4 | DSR-RT+WR | 9.48 | 9.48 | 9.60 | 9.60 | 38.16 | 9.54 |
| T5 | Zero tillage (ZT) | 10.72 | 9.76 | 10.12 | 11.20 | 41.8 | 10.45 |
| T6 | ZT+WRR | 5.76 | 3.08 | 1.96 | 4.40 | 15.2 | 3.80 |
| T7 | PRB (Permanent Raised beds in Rice) | 9.44 | 8.24 | 6.64 | 8.56 | 32.88 | 8.22 |
| T8 | FRB (Fresh raised beds) | 16.48 | 15.24 | 14.72 | 15.72 | 62.16 | 15.54 |
| T9 | ZT+DSR+S(Sesbania) | 7.88 | 10.36 | 7.40 | 7.48 | 33.12 | 8.28 |
| T10 | ZT+DGM (Daincha green manuring) | 19.44 | 19.40 | 19.12 | 18.60 | 76.56 | 19.14 |
| Total | | 129.88 | 123.28 | 117.1 | 125.16 | 495.42 | 123.86 |
| Avg. | | 12.988 | 12.328 | 11.71 | 12.52 | 49.54 | 12.39 |

Rice-2009
Harvesting index (%)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|--------------|--|---------------|---------------|---------------|---------------|----------------|---------------|
| T1 | Conventional (CV) | 41.67 | 42.15 | 43.25 | 43.81 | 170.87 | 42.72 |
| T2 | CV+WR(Wheat residue) | 43.96 | 47.62 | 48.86 | 48.89 | 189.33 | 47.33 |
| T3 | DSR-RT(Direct seeded rice- reduced tillage) | 46.88 | 44.44 | 45.26 | 45.28 | 181.87 | 45.47 |
| T4 | DSR-RT+WR | 45.70 | 44.85 | 44.58 | 44.58 | 179.71 | 44.93 |
| T5 | Zero tillage (ZT) | 44.03 | 42.62 | 42.69 | 42.86 | 172.20 | 43.05 |
| T6 | ZT+WRR | 44.02 | 47.04 | 46.02 | 46.55 | 183.63 | 45.91 |
| T7 | PRB (Permanent Raised beds in Rice) | 45.34 | 50.00 | 50.00 | 50.00 | 195.34 | 48.83 |
| T8 | FRB (Fresh raised beds) | 44.17 | 46.19 | 45.65 | 45.29 | 181.31 | 45.33 |
| T9 | ZT+DSR+S(Sesbania) | 39.09 | 42.08 | 37.84 | 38.50 | 157.51 | 39.38 |
| T10 | ZT+DGM (Daincha green manuring) | 45.47 | 45.36 | 45.61 | 45.16 | 181.60 | 45.40 |
| Total | | 440.32 | 452.36 | 449.76 | 450.93 | 1793.37 | 448.34 |
| Avg. | | 44.03 | 45.24 | 44.98 | 45.09 | 179.34 | 44.83 |

| Rice 2009 | | | | | |
|-------------------|--|-----------------|-----------------|-----------------|---------------|
| Treatments | | GY(t/ha) | SY(t/ha) | BY(t/ha) | HI(%) |
| T1 | Conventional (CV) | 8.68 | 11.63 | 20.31 | 42.72 |
| T2 | CV+WR(Wheat residue) | 8.35 | 9.30 | 17.65 | 47.33 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 4.98 | 5.95 | 10.93 | 45.47 |
| T4 | DSR-RT+WR | 5.24 | 4.30 | 9.54 | 44.93 |
| T5 | Zero tillage (ZT) | 4.50 | 5.95 | 10.45 | 43.05 |
| T6 | ZT+WRR | 2.00 | 1.80 | 3.80 | 45.91 |
| T7 | PRB (Permanent Raised beds in Rice) | 4.00 | 4.22 | 8.22 | 48.83 |
| T8 | FRB (Fresh raised beds) | 7.04 | 8.50 | 15.54 | 45.33 |
| T9 | ZT+DSR+S(Sesbania) | 3.28 | 5.00 | 8.28 | 39.38 |
| T10 | ZT+DGM (Daincha green manuring) | 8.69 | 10.45 | 19.14 | 45.40 |
| Total | | 56.76 | 67.10 | 123.86 | 448.35 |
| Avg. | | 5.68 | 6.71 | 12.39 | 44.84 |

Rice-2010
Biological yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|------------|--|---------------|---------------|---------------|---------------|---------------|---------------|
| T1 | Conventional (CV) | 12.98 | 12.75 | 12.97 | 13.10 | 51.8 | 12.95 |
| T2 | CV+WR(Wheat residue) | 11.35 | 11.13 | 11.33 | 11.54 | 45.35 | 11.34 |
| T3 | DSR-RT(Direct seeded rice- reduced tillage) | 10.82 | 9.62 | 10.43 | 10.56 | 41.43 | 10.36 |
| T4 | DSR-RT+WR | 8.83 | 9.24 | 8.12 | 7.81 | 34 | 8.50 |
| T5 | Zero tillage (ZT) | 10.67 | 10.69 | 10.27 | 10.56 | 42.19 | 10.55 |
| T6 | ZT+WRR | 7.56 | 7.83 | 7.50 | 7.89 | 30.78 | 7.70 |
| T7 | PRB (Permanent Raised beds in Rice) | 9.58 | 9.15 | 8.99 | 9.47 | 37.19 | 9.30 |
| T8 | FRB (Fresh raised beds) | 12.12 | 12.59 | 11.97 | 12.51 | 49.19 | 12.30 |
| T9 | ZT+DSR+S(Sesbania) | 10.09 | 10.07 | 9.70 | 9.97 | 39.83 | 9.96 |
| T10 | ZT+DGM (Daincha green manuring) | 14.84 | 14.05 | 14.64 | 15.00 | 58.53 | 14.63 |
| Total | | 108.84 | 107.12 | 105.92 | 108.41 | 430.29 | 107.57 |
| Avg. | | 10.884 | 10.712 | 10.592 | 10.841 | 43.029 | 10.76 |

Rice-2010
Grain yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|------------|--|--------------|--------------|--------------|--------------|---------------|--------------|
| T1 | Conventional (CV) | 7.90 | 7.15 | 7.85 | 7.90 | 30.80 | 7.70 |
| T2 | CV+WR(Wheat residue) | 7.91 | 8.01 | 7.73 | 7.94 | 31.59 | 7.90 |
| T3 | DSR-RT(Direct seeded rice- reduced tillage) | 6.10 | 5.10 | 5.63 | 5.96 | 22.79 | 5.70 |
| T4 | DSR-RT+WR | 5.63 | 5.84 | 5.12 | 5.01 | 21.60 | 5.40 |
| T5 | Zero tillage (ZT) | 5.55 | 5.69 | 5.79 | 5.36 | 22.39 | 5.60 |
| T6 | ZT+WRR | 3.96 | 4.03 | 4.30 | 4.09 | 16.38 | 4.10 |
| T7 | PRB (Permanent Raised beds in Rice) | 5.30 | 4.95 | 4.99 | 5.15 | 20.39 | 5.10 |
| T8 | FRB (Fresh raised beds) | 7.32 | 7.59 | 7.09 | 7.59 | 29.59 | 7.40 |
| T9 | ZT+DSR+S(Sesbania) | 5.73 | 5.67 | 5.70 | 5.69 | 22.79 | 5.70 |
| T10 | ZT+DGM (Daincha green manuring) | 7.96 | 7.05 | 7.84 | 7.96 | 30.81 | 7.70 |
| Total | | 63.36 | 61.08 | 62.04 | 62.65 | 249.13 | 62.28 |
| Avg. | | 6.34 | 6.11 | 6.20 | 6.27 | 24.91 | 6.23 |

Rice-2010
Straw yield (t/ha)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|--------------|---|--------------|--------------|--------------|--------------|---------------|--------------|
| T1 | Conventional (CV) | 5.08 | 5.60 | 5.12 | 5.20 | 21.00 | 5.25 |
| T2 | CV+WR(Wheat residue) | 3.44 | 3.12 | 3.60 | 3.60 | 13.76 | 3.44 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 4.72 | 4.52 | 4.80 | 4.60 | 18.64 | 4.66 |
| T4 | DSR-RT+WR | 3.20 | 3.40 | 3.00 | 2.80 | 12.40 | 3.10 |
| T5 | Zero tillage (ZT) | 5.12 | 5.00 | 4.48 | 5.20 | 19.80 | 4.95 |
| T6 | ZT+WRR | 3.60 | 3.80 | 3.20 | 3.80 | 14.40 | 3.60 |
| T7 | PRB (Permanent Raised beds in Rice) | 4.28 | 4.20 | 4.00 | 4.32 | 16.80 | 4.20 |
| T8 | FRB (Fresh raised beds) | 4.80 | 5.00 | 4.88 | 4.92 | 19.60 | 4.90 |
| T9 | ZT+DSR+S(Sesbania) | 4.36 | 4.40 | 4.00 | 4.28 | 17.04 | 4.26 |
| T10 | ZT+DGM (Daincha green manuring) | 6.88 | 7.00 | 6.80 | 7.04 | 27.72 | 6.93 |
| Total | | 45.48 | 46.04 | 43.88 | 45.76 | 181.16 | 45.29 |
| Avg. | | 4.55 | 4.60 | 4.39 | 4.58 | 18.12 | 4.53 |

Rice-2010
Harvesting index (%)

| Treatments | | R1 | R2 | R3 | R4 | Total | Avg. |
|--------------|---|---------------|---------------|---------------|---------------|----------------|---------------|
| T1 | Conventional (CV) | 48.56 | 46.08 | 49.21 | 47.62 | 191.47 | 47.87 |
| T2 | CV+WR(Wheat residue) | 48.96 | 45.63 | 47.22 | 46.51 | 188.32 | 47.08 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 46.83 | 43.01 | 43.98 | 46.74 | 180.56 | 45.14 |
| T4 | DSR-RT+WR | 44.62 | 44.85 | 44.58 | 44.58 | 178.63 | 44.66 |
| T5 | Zero tillage (ZT) | 43.61 | 44.56 | 45.16 | 47.65 | 180.98 | 45.25 |
| T6 | ZT+WRR | 45.96 | 47.04 | 46.02 | 46.55 | 185.57 | 46.39 |
| T7 | PRB (Permanent Raised beds in Rice) | 45.30 | 44.10 | 45.51 | 44.38 | 179.29 | 44.82 |
| T8 | FRB (Fresh raised beds) | 42.36 | 42.86 | 44.32 | 46.95 | 176.49 | 44.12 |
| T9 | ZT+DSR+S(Sesbania) | 46.23 | 46.31 | 48.76 | 47.07 | 188.37 | 47.09 |
| T10 | ZT+DGM (Daincha green manuring) | 43.64 | 41.18 | 43.50 | 43.70 | 172.02 | 43.01 |
| Total | | 456.07 | 445.62 | 458.26 | 461.75 | 1821.70 | 455.43 |
| Avg. | | 45.61 | 44.56 | 45.83 | 46.18 | 182.17 | 45.54 |

| Rice 2010 | | | | | |
|-------------------|--|-----------------|-----------------|-----------------|---------------|
| Treatments | | GY(t/ha) | SY(t/ha) | BY(t/ha) | HI(%) |
| T1 | Conventional (CV) | 7.70 | 5.25 | 12.95 | 47.87 |
| T2 | CV+WR(Wheat residue) | 7.90 | 3.44 | 11.34 | 47.08 |
| T3 | DSR-RT(Direct seeded rice-reduced tillage) | 5.70 | 4.66 | 10.36 | 45.14 |
| T4 | DSR-RT+WR | 5.40 | 3.10 | 8.50 | 44.66 |
| T5 | Zero tillage (ZT) | 5.60 | 4.95 | 10.55 | 45.25 |
| T6 | ZT+WRR | 4.10 | 3.60 | 7.70 | 46.39 |
| T7 | PRB (Permanent Raised beds in Rice) | 5.10 | 4.20 | 9.30 | 44.82 |
| T8 | FRB (Fresh raised beds) | 7.40 | 4.90 | 12.30 | 44.12 |
| T9 | ZT+DSR+S(Sesbania) | 5.70 | 4.26 | 9.96 | 47.09 |
| T10 | ZT+DGM (Daincha green manuring) | 7.70 | 6.93 | 14.63 | 43.01 |
| Total | | 62.30 | 45.29 | 107.59 | 455.43 |
| Avg. | | 6.23 | 4.53 | 10.76 | 45.54 |