

TASAR SILK PRODUCTION STATISTICS

(Period: 2007-08 to 2012-13)

Compiled by

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WORLD RAW SILK PRODUCTION (MT)

| Country / Year | 2008 | 2009 | 2010 | 2011 | 2012 | % share |
|----------------|--------|--------|--------|--------|--------|---------|
| China | 98620 | 84000 | 115000 | 104000 | 126000 | 82.41 |
| India | 18370 | 19690 | 20410 | 23060 | 23679 | 15.49 |
| Brazil | 1177 | 811 | 770 | 558 | 614 | 0.40 |
| Indonesia | 37 | 19 | 20 | 20 | 20 | 0.01 |
| Iran | 180 | 82 | 75 | 120 | 123 | 0.08 |
| Japan | 96 | 72 | 54 | 42 | 30 | 0.02 |
| North Korea | | | | 300 | 300 | 0.20 |
| Thailand | 1100 | 665 | 655 | 655 | 655 | 0.43 |
| Turkey | 15 | 20 | 18 | 22 | 22 | 0.01 |
| Uzbekistan | 770.5 | 780 | 940 | 940 | 940 | 0.61 |
| Vietnam | | | 550 | 500 | 450 | 0.29 |
| Others | 30.5 | 30 | 31 | 47 | 57 | 0.04 |
| Total | 120396 | 106169 | 138505 | 129684 | 152868 | 100.00 |

Note: Figures of India is for financial year April to March, Source: www.inserco.org.

TABLE: TASAR, SEED, COCOON AND RAW SILK PRODUCTION

| Year | Seed Production | | Cocoon Production | | Raw Silk Production | |
|---------|-------------------|-----------------------------|---------------------|--------------------------|---------------------|-----------------------------|
| | Qty (Lakh No.) | % Increase / decrease | Qty (Kahan' 000) | % Increase / decrease | Qty (MT) | % Increase / decrease |
| 2007-08 | 100.24 | - | 4.04 | - | 428.19 | - |
| 2008-09 | 140.03 | 39.69 | 5.33 | 31.93 | 603.00 | 40.83 |
| 2009-10 | 142.85 | 2.01 | 7.45 | 39.77 | 803.00 | 33.17 |
| 2010-11 | 205.31 | 43.72 | 10.29 | 38.12 | 1166.00 | 45.21 |
| 2011-12 | 265.00 | 29.07 | 14.96 | 45.38 | 1589.50 | 36.32 |
| 2012-13 | 294.00 | 10.94 | 15.62 | 4.41 | 1728.70 | 8.76 |

Source: Central Silk Board, Bangalore

STATE WISE TROPICAL TASAR RAW SILK PRODUCTION (MT)

| State | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|----------------|---------------|------------|--------------|-------------|----------------|----------------|
| Andhra Pradesh | 7.00 | 13 | 10 | 4 | 1.33 | 0.64 |
| Bihar | 13.80 | 16 | 27 | 30 | 29.37 | 7.30 |
| Chhattisgarh | 146.00 | 147 | 161 | 168 | 293.78 | 384.87 |
| Jharkhand | 143.00 | 296 | 403.70 | 766 | 1025.24 | 1088.35 |
| Madhya Pradesh | 30.00 | 30.14 | 74 | 58 | 79.20 | 83.00 |
| Maharastra | 4.00 | 4.28 | 8 | 9 | 12.35 | 9.75 |
| Orissa | 47.68 | 57 | 71 | 78 | 89.70 | 95.00 |
| Uttar Pradesh | 4.00 | 4.15 | 6 | 9 | 10.80 | 12.30 |
| West Bengal | 29.00 | 31.23 | 37 | 41 | 43.96 | 43.76 |
| Total | 424.48 | 599 | 797.7 | 1163 | 1585.72 | 1724.97 |

Source: Central Silk Board, Bangalore,

STATE WISE TROPICAL TASAR SEED PRODUCTION (LAKH NO.)

| State | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|----------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Andhra Pradesh | 6.570 | 6.862 | 7.17 | 10.85 | 9.38 | 9.87 |
| Bihar | 6.260 | 7.39 | 8.04 | 7.73 | 7.64 | 2.41 |
| Chhattisgarh | 27.363 | 21.21 | 23.55 | 19.84 | 22.96 | 24.15 |
| Jharkhand | 23.654 | 54.59 | 52.00 | 112.58 | 160.37 | 177.69 |
| Madhya Pradesh | 8.422 | 14.38 | 10.396 | 15.34 | 19.05 | 30.95 |
| Maharastra | 3.910 | 5.87 | 6.25 | 5.69 | 8.37 | 9.47 |
| Orissa | 13.720 | 18.1 | 22.87 | 19.79 | 22.37 | 23.38 |
| Uttar Pradesh | 1.131 | 1.407 | 1.67 | 2.05 | 2.51 | 2.79 |
| West Bengal | 5.800 | 6.283 | 7.21 | 8.20 | 8.74 | 8.86 |
| Total | 96.83 | 136.09 | 139.15 | 202.07 | 261.40 | 289.57 |

Source: Central Silk Board, Bangalore ,

STATE WISE TROPICAL TASAR COCOON PRODUCTION (KAHAN, 000)

| State | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|----------------|-------------|-------------|-------------|--------------|--------------|--------------|
| Andhra Pradesh | 0.07 | 0.13 | 0.287 | 0.126 | 0.159 | 0.074 |
| Bihar | 0.13 | 0.16 | 0.386 | 0.381 | 0.390 | 0.091 |
| Chhattisgarh | 1.04 | 1.14 | 1.25 | 1.289 | 2.160 | 2.565 |
| Jharkhand | 1.72 | 2.46 | 3.25 | 6.750 | 9.761 | 10.324 |
| Madhya Pradesh | 0.25 | 0.33 | 0.61 | 0.525 | 0.860 | 0.912 |
| Maharastra | 0.06 | 0.09 | 0.250 | 0.085 | 0.241 | 0.190 |
| Orissa | 0.41 | 0.46 | 0.915 | 0.620 | 0.690 | 0.730 |
| Uttar Pradesh | 0.04 | 0.05 | 0.067 | 0.072 | 0.110 | 0.123 |
| West Bengal | 0.24 | 0.285 | 0.33 | 0.353 | 0.489 | 0.504 |
| Total | 3.96 | 5.11 | 7.34 | 10.20 | 14.86 | 15.51 |

Source: Central Silk Board, Bangalore

STATE WISE OAK TASAR RAW SILK PRODUCTION (MT)

| State | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|-------------------|-------------|-------------|-------------|---------|-------------|---------|
| Arunachal Pradesh | 0.03 | 0.1 | 0.1 | 0.1 | 0.34 | - |
| Manipur | 3.00 | 3 | 3.5 | 2 | 2.45 | 2.80 |
| Mizoram | 0.02 | 0.1 | 0.2 | 0.4 | 0.93 | 0.72 |
| Nagaland | 0.16 | 0.5 | 0.5 | 0.3 | 0.06 | 0.21 |
| Jammu and Kashmir | | 0.01 | 0.5 | 0.1 | | |
| Uttarakhand | 0.50 | 0.5 | 0.5 | 0.1 | | |
| Total | 3.71 | 4.21 | 5.30 | 3 | 3.78 | 3.73 |

Source: Central Silk Board, Bangalore

STATE WISE OAK TASAR SEED PRODUCTION (LAKH NO.)

| State | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|-------------------|-------------|--------------|--------------|-------------|-------------|-------------|
| Arunachal Pradesh | 0.061 | 0.06 | 0.05 | 0.10 | 0.40 | 0.09 |
| Manipur | 3.000 | 3 | 1.73 | 1.95 | 3.04 | 3.05 |
| Mizoram | 0.200 | 0.12 | 0.09 | 0.66 | 0.15 | 0.33 |
| Nagaland | 0.150 | 0.51 | 0.64 | 0.40 | 0.11 | 0.17 |
| Jammu and Kashmir | | | 0.60 | 0.07 | | |
| Uttarakhand | | 0.25 | 0.60 | 0.06 | | 0.30 |
| Total | 3.41 | 3.940 | 3.704 | 3.23 | 3.70 | 3.94 |

Source: Central Silk Board, Bangalore

STATE WISE OAK TASAR COCOON PRODUCTION (LAKH KAHAN)

| State | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|-------------------|-------------|--------------|--------------|--------------|-------------|-------------|
| Arunachal Pradesh | 0.002 | 0.002 | 0.001 | 0.005 | 0.020 | - |
| Manipur | 0.07 | 0.06 | 0.0496 | 0.060 | 0.080 | 0.087 |
| Mizoram | 0.001 | 0.001 | 0.0022 | 0.013 | 0.003 | 0.002 |
| Nagaland | 0.005 | 0.153 | 0.0189 | 0.013 | 0.001 | 0.006 |
| Jammu and Kashmir | | | 0.0200 | 0.002 | | |
| Uttarakhand | | 0.006 | 0.0200 | 0.002 | | 0.009 |
| Total | 0.07 | 0.222 | 0.112 | 0.094 | 0.10 | 0.01 |

Source: Central Silk Board, Bangalore

XII PLAN: PHYSICAL TARGETS FOR VANYA SILK; YEAR WISE PHASING

| Sl. No. | Variety | 2012-13 | 2013-14 | 2014-15 | 2014-15 | 2016-17 | Increase over XI Plan |
|---------|-------------|---------|---------|---------|---------|---------|-----------------------|
| 1 | Tasar | 1830 | 2310 | 2785 | 3620 | 4562 | 186.92% |
| 2 | Eri | 3160 | 3345 | 3590 | 3920 | 4238 | 37.96% |
| 3 | Muga | 130 | 140 | 150 | 160 | 200 | 58.73% |
| | Vanya Total | 5120 | 5795 | 6525 | 7700 | 9000 | 87.97% |

Source: Central Silk Board, Bangalore

Under Market Support: Tasar Raw Material Bank, Chaibasa

The Procurement and sale of tasar cocoons made by RMB, Chaibasa and its sub-depots during the XI Plan and for the first and second year (2012-13 & 2013-14 till Nov, 13) of XII Plan

(Unit: Qty. in Lakh Nos. & Value in Lakh Rs.)

| Year | Procurement | | Sale | |
|-------------------------|-------------|--------|--------|--------|
| | Qty. | Value | Qty. | Value |
| XI Plan (2007-12) | 824.65 | 543.75 | 793.07 | 576.80 |
| XII Plan | | | | |
| 2012-13 | 247.64 | 177.36 | 222.87 | 159.99 |
| 2013-14 (Till Nov 2013) | 133.96 | 114.34 | 130.61 | 99.08 |

RAW SILK IMPORT

| Year | Quantity (MT) | Value (Rs. in Crores) |
|----------|----------------|-----------------------|
| 2007-08 | 7922 | 734.44 |
| 2008-09 | 8392 | 903.06 |
| 2009-10 | 7338 | 933.70 |
| 2010-11 | 5820 | 927.59 |
| 2011-12 | 5683 | 1111.53 |
| 2012-13 | 4951 | 1236.83 |
| 2013-14# | 1175 | 473.28 |

Source: DGCIS, Kolkata, # till Sep 2013

EXPORTS OF INDIAN SILK GOODS TO THE TRADITIONAL MAJOR MARKETS

| Items | Value of exports of Silk and Silk Goods (Cr. Rs.) | | | | | | |
|--------------------|---|---------|---------|---------|---------|---------|----------------------|
| | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14# P (Apr-Sep) |
| Natural Silk Yarn | 45.38 | 35.08 | 29.42 | 39.39 | 19.65 | 21.96 | 4.23 |
| Silk Fabrics | 1851.68 | 2092.64 | 1942.57 | 2083.82 | 1498.00 | 1410.31 | 418.91 |
| Readymade Garments | 746.55 | 986.57 | 854.94 | 683.31 | 765.83 | 787.15 | 644.20 |
| Silk Carpets | 72.11 | 58.67 | 40.59 | 21.10 | 20.08 | 21.14 | 5.18 |
| Silk Waste | 12.15 | 5.23 | 24.92 | 36.14 | 49.77 | 62.97 | 45.56 |
| Total | 2727.87 | 3178.19 | 2892.44 | 2863.76 | 2353.33 | 2303.53 | 1118.08 |

Note: Final Data is based on ITC (HS) codes details received from source data, Source: FTSI & MSFTI, DGCIS, Kolkata,

SERICULTURE STATISTICS IN INDIA

| Particulars | Unit | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 (P) Apr-Nov |
|---|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------|
| Raw Silk Production: | | | | | | | | |
| Mulberry | MT | 16245 | 15610 | 16322 | 16360 | 18272 | 18715 | 110,513 |
| Non-Mulberry | MT | 2075 | 2760 | 3368 | 4050 | 4788 | 4964 | 3990 |
| Total Raw Silk | MT | 18320 | 18370 | 19690 | 20410 | 23060 | 23679 | 14503 |
| Production of Silk Yarn: | | | | | | | | |
| Spun Silk Yarn | MT | 470 | 500 | 560 | 585 | 750 | 770 | |
| Noil Yarn | MT | 235 | 250 | 280 | 295 | 375 | 385 | |
| Export of Silk Goods: | | | | | | | | |
| Silk goods value | Crore | 2715.72 | 3172.96 | 2867.52 | 2827.62 | 2303.56 | 2240.56 | |
| Silk waste value | Crore | 12.15 | 5.23 | 24.92 | 36.15 | 49.77 | 62.97 | |
| Foreign Exchange Earnings | Crore Mn. US \$ | 2727.87 677.40 | 3178.19 691.06 | 2892.44 609.58 | 2863.77 628.57 | 2353.33 491.10 | 2303.53 423.37 | 118.08# |
| Import of Silk: | | | | | | | | |
| Raw Silk Qty | MT | 7922 | 8392 | 7338 | 5820 | 5685 | 4959 | 1175* |
| Value | Crore | 734.44 | 903.06 | 933.70 | 927.59 | 1111.53 | 1238.56 | 473.28* |
| Silk Fabrics Qty | MT | 5064 | 4789 | 4456 | 4186 | 2493 | 1792 | |
| Value | Crore | 862.67 | 846.52 | 905.55 | 821.51 | 564.52 | 436.36 | |
| Price of Tasar Cocoon and Raw Silk | | | | | | | | |
| Reeling Cocoon (Daba) / '000 no. | / '000 No. | 1000-1575 | 1000-1400 | 650-1050 | 1050-1150 | 1200-1800 | 1650-2200 | |
| Raw Silk (Reeled Yarn) | / kg | 1350-1850 | 1600-1800 | 1550-1600 | 2200-2400 | 2000-2700 | 2500-2750 | |

P – Provisional, Source Production : DOS of States and Exports: DGCIS Kolkatta, # upto Nov 2013, * till sep 2013

VANYA PLANTATION IN DIFFERENT STATES

| State | Vanya Food Plantation Area (in Hectare) | | | | | |
|----------------------------|--|---------|---------|---------|---------|---------|
| | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
| Tropical Tasar (A): | | | | | | |
| Andhra Pradesh | 8400 | 8400 | 8400 | 8200 | 8200 | 8228 |
| Bihar | 13263 | 13268 | 13319 | 13434 | 13708 | 14476 |
| Chhattisgarh | 3717 | 9928 | 10457 | 10889 | 12069 | 12522 |
| Jharkhand | 78399 | 74253 | 74253 | 84320 | 4725 | 5985 |
| Madhya Pradesh | 2148 | 7171 | 7171 | 7171 | 17612 | 17782 |
| Maharastra | 16100 | 16100 | 16100 | 16100 | 18866 | 18866 |
| Orissa | 3651 | 9115 | 10987 | 11035 | 11440 | 11712 |
| Uttar Pradesh | 306 | 415 | 675 | 1234 | 1160 | 1264 |
| West Bengal | 5516 | 5696 | 5701 | 6131 | 6320 | 6529 |
| Sub-Total (A) | 131500 | 144346 | 147063 | 158514 | 94100 | 97364 |

| Oak Tasar (B) | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|
| Assam | - | - | - | - | - | 258 |
| Arunachal Pradesh | 24 | 65 | 100 | 100 | 100 | 100 |
| Manipur | 7250 | 7250 | 7370 | 7510 | 7540 | 7640 |
| Mizoram | 144 | | | | 13 | 62 |
| Nagaland | 187 | 187 | 187 | 187 | 86 | 87 |
| Tripura | - | - | - | - | 11 | 11 |
| Uttarakhand | - | - | - | 19 | 19 | 19 |
| Sub-Total (B) | 7605 | 7502 | 7657 | 7816 | 7769 | 7919 |
| Total (A +B) | 139105 | 151848 | 154720 | 166330 | 101869 | 105283 |

Source: R.N.Singh et.al (2014), “Tasar Culture” published by A.P.H. Publishing Corporation New Delhi pp.27

SAL FOREST AREA IN DIFFERENT STATES IN INDIA

| State | Area under sal forest (Ha) |
|-------------------------------|----------------------------|
| Himachal Pradesh | 33,000 |
| Haryana | 4,000 |
| Uttar Pradesh and Uttarakhand | 5,79,950 |
| Bihar and Jharkhand | 2,141,000 |
| Odisha | 3,830,000 |
| West Bengal | 470,000 |
| Assam, Meghalaya and Tripura | 134,000 |
| Nagaland | 15,000 |

TOTAL PLANTS REQUIRED PER UNIT AREA

| Spacing (m) | No. of Plants/ha | Survval of seed / cutting | No. of seedlings/ saplings is to be raised |
|-------------|------------------|---------------------------|---|
| 1.0 x 1.0 | 10,000 | 60% | 16000 |
| 1.5 x 1.5 | 4444 | 60% | 7500 |
| 2.0 x 2.0 | 2500 | 60% | 4300 |
| 2.25 x 2.25 | 1975 | 60% | 3300 |
| 2.5 x 2.5 | 1600 | 60% | 2700 |
| 3.0 x 3.0 | 1111 | 60% | 1900 |
| 3.5 x 3.5 | 816 | 60% | 1400 |
| 4.0 x 4.0 | 625 | 60% | 1050 |
| 4.5 x 4.5 | 494 | 60% | 850 |
| 5.0 x 5.0 | 400 | 60% | 680 |

Note: Total plants required in unit area is No of plants = Area / Spacing,

Source: R.N.Singh et.al (2014), “Tasar Culture” published by A.P.H. Publishing Corporation New Delhi pp.113