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Biostatistical Information on Salmon Catches in Russia in 1998

Pacific Research Fisheries Centre (TINRO-centre)

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Table 1

Commercial salmon catch in Russia (Far East) by species, region
and subregion , in tonnes, 1998.

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook | Total |
|-----------------------|----------|---------|---------|--------|---------|----------|
| Western Bering Sea | 23.4 | 1731.5 | 112.9 | | | 1867.8 |
| Eastern Kamchatka | 6777.9 | 2223.9 | 4558.9 | 744.5 | 343.7 | 14648.9 |
| Kuriles | 28521.1 | 818.1 | | | | 29339.2 |
| The Sea of Okhotsk | | | | | | |
| Continental coast | 6965.2 | 12877.8 | 14.2 | 365.4 | | 20222.6 |
| Western Kamchatka | 114369.8 | 2188.9 | 5449.4 | 586.6 | 117.3 | 122712.0 |
| Sakhalin coast | 27367.3 | 1435.5 | | | | 28802.8 |
| Amur Basin | 1501.5 | 3249.0 | | | | 4750.5 |
| The Sea of Japan | | | | | | |
| Primor'ie | 4582.0 | 18.2 | | | | 4600.2 |
| Southwestern Sakhalin | 1986.5 | 592.5 | | | | 2579.0 |
| Total | 192094.7 | 25135.4 | 10135.4 | 1696.5 | 461.0 | 229523.0 |

Table 2

Commercial salmon catch in Russia (Far East) by species, region
and subregion, in thousands of fish, 1998.

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook | Total |
|-----------------------|-----------|---------|---------|--------|---------|-----------|
| Western Bering Sea | 19.50 | 558.55 | 40.32 | | | 618.37 |
| Eastern Kamchatka | 5668.18 | 662.39 | 2086.47 | 237.57 | 55.38 | 8709.99 |
| Kuriles | 24031.20 | 240.80 | | | | 24272.00 |
| The Sea of Okhotsk | | | | | | |
| Continental coast | 6533.15 | 3753.42 | 5.80 | 105.23 | | 10397.60 |
| Western Kamchatka | 91476.80 | 678.54 | 2504.74 | 229.48 | 14.50 | 94904.06 |
| Sakhalin coast | 25767.30 | 488.00 | | | | 26255.30 |
| Amur Basin | 1668.30 | 1083.00 | | | | 2751.30 |
| The Sea of Japan | | | | | | |
| Primor'ie | 5035.20 | 5.05 | | | | 5040.25 |
| Southwestern Sakhalin | 2613.80 | 204.30 | | | | 2818.10 |
| Total | 162813.43 | 7674.05 | 4637.33 | 572.28 | 69.88 | 175766.97 |

Table 3

**Commercial pink salmon catch in Russia (Far East)
by regions, subregions and month in number of fish, 1998.**

| Region, subregion | May | June | July | August | September | Октябрь | Total |
|-----------------------|-----|---------|----------|-----------|-----------|---------|-----------|
| Eastern Kamchatka | | | 4378925 | 1284990 | 4265 | | 5668180 |
| Kuriles | | | 623500 | 14082800 | 9308600 | 16300 | 24031200 |
| The Sea of Okhotsk | | | | | | | |
| Western Kamchatka | | | 12751750 | 75497710 | 3227340 | | 91476800 |
| Continental Coast | | 194174 | 4021900 | 2307288 | 9788 | | 6533150 |
| Sakhalin Coast | | 8600 | 3978500 | 21598600 | 181600 | | 25767300 |
| Amur Basin | | 206877 | 1458756 | 2667 | | | 1668300 |
| The Sea of Japan | | | | | | | |
| Primor'e | | 433027 | 4587067 | 15106 | | | 5035200 |
| Southwestern Sakhalin | | 2123200 | 409800 | 80800 | | | 2613800 |
| Total | | 2965878 | 32210198 | 114869961 | 12731593 | 16300 | 162793930 |

Table 4

**Commercial chum salmon catch in Russia (Far East)
by regions, subregions and month in number of fish, 1998.**

| Region, subregion | June | July | August | September | October | Novembe | Total |
|-----------------------|-------|--------|---------|-----------|---------|---------|---------|
| Eastern Kamchatka | 29070 | 318650 | 250130 | 64540 | | | 662390 |
| Kuriles | | | 900 | 69000 | 139200 | 31700 | 240800 |
| The Sea of Okhotsk | | | | | | | |
| Western Kamchatka | | 125000 | 255390 | 298150 | | | 678540 |
| Continental Coast | 55719 | 96861 | 2946692 | 654148 | | | 3753420 |
| Sakhalin Coast | | 74700 | 41000 | 194200 | 177800 | 300 | 488000 |
| Amur Basin | | 194832 | 14404 | 873764 | | | 1083000 |
| The Sea of Japan | | | | | | | |
| Primor'e | | | no data | | | | |
| Southwestern Sakhalin | | | 1000 | 187800 | 15500 | | 204300 |
| Total | 84789 | 810043 | 3509516 | 2341602 | 332500 | 32000 | 7110450 |

Table 5

**Commercial sockeye salmon catch in Russia (Far East)
by regions, subregions and month in number of fish, 1998.**

| Region, subregion | June | July | August | September | Total |
|--------------------|---------|---------|---------|-----------|---------|
| Eastern Kamchatka | 1370770 | 646350 | 69350 | | 2086470 |
| The Sea of Okhotsk | | | | | |
| Western Kamchatka | 1830 | 1207500 | 1273240 | 22170 | 2504740 |
| Continental Coast | 425 | 1186 | 4187 | | 5798 |
| Total | 1373025 | 1855036 | 1346777 | 22170 | 4597008 |

Table 6

**Commercial coho salmon catch in Russia (Far East)
by regions, subregions and month in number of fish, 1998.**

| Region, subregion | July | August | September | October | Total |
|--------------------|------|--------|-----------|---------|--------|
| Eastern Kamchatka | | 550 | 160050 | 76970 | 237570 |
| The Sea of Okhotsk | | | | | |
| Western Kamchatka | | | 52870 | 176610 | 229480 |
| Continental Coast | | 19084 | 86146 | | 105230 |
| Total | 0 | 19634 | 299066 | 253580 | 572280 |

Table 7

**Commercial chinook salmon catch in Russia (Far East)
by regions, subregions and month in number of fish, 1998.**

| Region, subregion | June | July | August | September | Total |
|--------------------|-------|-------|--------|-----------|-------|
| Eastern Kamchatka | 35360 | 19010 | 1010 | | 55380 |
| The Sea of Okhotsk | | | | | |
| Western Kamchatka | 10600 | 2890 | 790 | 220 | 14500 |
| Total | 45960 | 21900 | 1800 | 220 | 69880 |

Table 3/1

Commercial pink salmon catch in Russia (Far East)
by regions, subregions and month in tonnes, 1998.

| Region, subregion | May | June | July | August | September | October | Total |
|-----------------------|-----|---------|----------|-----------|-----------|---------|-----------|
| Eastern Kamchatka | | 0.06 | 5213.56 | 1559.42 | 4.90 | | 6777.94 |
| Kuriles | | | 739.99 | 16713.98 | 11047.78 | 19.35 | 28521.10 |
| The Sea of Okhotsk | | | | | | | |
| Western Kamchatka | | 0.04 | 15047.06 | 95127.12 | 4195.54 | | 114369.76 |
| Continental Coast | | 207.02 | 4287.83 | 2459.87 | 10.44 | | 6965.15 |
| Sakhalin Coast | | 9.13 | 4225.54 | 22939.75 | 192.88 | | 27367.30 |
| Amur Basin | | 186.19 | 1312.91 | 2.40 | | | 1501.50 |
| The Sea of Japan | | | | | | | |
| Primor'e | | 394.05 | 4174.20 | 13.75 | | | 4582.00 |
| Southwestern Sakhalin | | 1613.6 | 311.4 | 61.4 | | | 1986.5 |
| Total | | 2410.13 | 35312.54 | 138877.70 | 15451.54 | 19.35 | 192071.25 |

Table 4/1

Commercial chum salmon catch in Russia (Far East)
by regions, subregions and month in tonnes, 1998.

| Region, subregion | June | July | August | September | October | November | Total |
|-----------------------|--------|---------|----------|-----------|---------|----------|----------|
| Eastern Kamchatka | 85.37 | 1151.92 | 792.37 | 194.28 | | | 2223.94 |
| Kuriles | | | 3.1 | 234.4 | 472.9 | 107.7 | 818.10 |
| The Sea of Okhotsk | | | | | | | |
| Western Kamchatka | | 490.00 | 893.86 | 805.00 | | | 2188.86 |
| Continental Coast | 191.49 | 332.33 | 10109.96 | 2244.35 | | | 12878.12 |
| Sakhalin Coast | | 219.74 | 120.61 | 571.26 | 523.02 | 0.88 | 1435.50 |
| Amur Basin | | 584.50 | 43.21 | 2621.29 | | | 3249.00 |
| The Sea of Japan | | | | | | | |
| Primor'e | | | | no data | | | |
| Southwestern Sakhalin | | | 2.90 | 544.65 | 44.95 | | 592.50 |
| Total | 276.86 | 2778.48 | 11965.96 | 7215.25 | 1040.89 | 108.58 | 23386.02 |

Table 5/1

**Commercial sockeye salmon catch in Russia (Far East)
by regions, subregions and month in tonnes, 1998.**

| Region, subregion | June | July | August | September | Total |
|--------------------|---------|---------|---------|-----------|----------|
| Eastern Kamchatka | 2987.22 | 1412.20 | 159.50 | | 4558.92 |
| The Sea of Okhotsk | | | | | |
| Western Kamchatka | 4.00 | 2415.00 | 2979.38 | 51.00 | 5449.38 |
| Continental Coast | 1.04 | 2.90 | 10.25 | | 14.2 |
| Total | 2992.26 | 3830.10 | 3149.13 | 51.00 | 10022.50 |

Table 6/1

**Commercial coho salmon catch in Russia (Far East)
by regions, subregions and month in tonnes, 1998.**

| Region, subregion | June | July | August | September | October | Total |
|--------------------|------|------|--------|-----------|---------|---------|
| Eastern Kamchatka | | | 1.70 | 475.68 | 267.08 | 744.46 |
| The Sea of Okhotsk | | | | | | |
| Western Kamchatka | | | | 138.00 | 448.58 | 586.58 |
| Continental Coast | | | 66.27 | 299.13 | | 365.40 |
| Total | | | 67.97 | 912.81 | 715.66 | 1696.44 |

Table 7/1

**Commercial chinook salmon catch in Russia (Far East)
by regions, subregions and month in tonnes, 1998.**

| Region, subregion | June | July | August | September | Total |
|--------------------|--------|--------|--------|-----------|--------|
| Eastern Kamchatka | 216.84 | 118.78 | 8.08 | | 343.70 |
| The Sea of Okhotsk | | | | | |
| Western Kamchatka | 83.30 | 25.00 | 7.00 | 2.00 | 117.30 |
| Total | 300.14 | 143.78 | 15.08 | 2.00 | 461.00 |

Table 8

Escapement of adult pacific salmon to spawning areas in Russia, by species, region and subregion in thousands of fishes, 1998

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook | Total |
|-----------------------|---------|--------|---------|-------|---------|---------|
| Eastern Kamchatka | 7282.2 | 1034.6 | 829.70 | 565.0 | 68.6 | 9780.1 |
| Kuriles | 3920.0 | 64.0 | | | | 3984.0 |
| The Sea of Okhotsk | | | | | | |
| Western Kamchatka | 42118.6 | 792.8 | 1213.5 | 418.5 | 90.1 | 44633.5 |
| Continental Coast | 4215.4 | 2647.3 | | | | 6862.7 |
| Sakhalin Coast | 9576.4 | 129.5 | | | | 9705.9 |
| Amur Basin | 1918.1 | 730.2 | | | | 2648.3 |
| The Sea of Japan | | | | | | |
| Primor'e | 760.0 | | | | | 760.0 |
| Southwestern Sakhalin | 3119.1 | | | | | 3119.1 |
| Total | 72909.8 | 5398.4 | 2043.2 | 983.5 | 158.7 | 81493.6 |

Table 11

Salmon fry released from Russian hatcheries, in thousands of fish, 1998.

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook | Masu | Total |
|-----------------------|----------|----------|---------|--------|---------|------|----------|
| Eastern Kamchatka | | 23392.7 | | 106.0 | | | 23498.7 |
| Kuriles | 74904.0 | 8949.0 | | | | | 83853.0 |
| The Sea of Okhotsk | | | | | | | |
| Western Kamchatka | | 2501.5 | 6360.0 | | 336.9 | | 9198.4 |
| Continental Coast | 5250.0 | 6948.0 | 350.0 | 150.0 | | | 12698.0 |
| Sakhalin Coast | 221306.0 | 158737.0 | 16.0 | 2867.0 | | 33.0 | 382959.0 |
| Amur River Basin | 6234.8 | | | | | | 6234.8 |
| The Sea of Japan | | | | | | | |
| Primor'e | | 2400.0 | | | | | 2400.0 |
| Southwestern Sakhalin | 16400.0 | 79146.0 | | | | | 95546.0 |
| Total | 324094.8 | 282074.2 | 6726.0 | 3123.0 | 336.9 | 33.0 | 616387.9 |

Table 9

Number of outmigrants of pacific salmon from Russian rivers in 1998, in
thousands of fish.

| Region, subregion, river | Pink | Chum | Sockeye | Coho | Chinook | Masu |
|--------------------------|-----------|----------|---------|---------|---------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Eastern Kamchatka | | | | | | |
| R. Kamchatka basin | | | | | | |
| R. Kamchatka | 36699.13 | 5801.53 | 5220.75 | 2951.51 | 595.49 | |
| L. Ushki | | 26.49 | 11.79 | 200.12 | | |
| R. Nikolka | | | 242.42 | 1485.09 | | |
| R. Zhupanovka | | 309.16 | 61.80 | 103.32 | 31.78 | |
| R. Avacha | 106808.69 | 20550.17 | 231.11 | | 397.95 | |
| South Kuril | | | | | | |
| R. Olya | 7100.00 | 120.00 | | | | |
| R. Rybatskaja | 3218.00 | 348.00 | | | | |
| R. Ilushina | 2950.00 | 1219.00 | | | | |
| The Sea of Okhotsk | | | | | | |
| Western Kamchatka | | | | | | |
| R. Bolshaja basin | | | | | | |
| R. Bystraja | | 2196.00 | 1613.50 | 4210.00 | 4084.00 | |
| R. Kluchevka | | 71.30 | 63.00 | 114.80 | 101.80 | |
| R. Kihchik | 566.34 | 955.39 | 62.33 | 751.30 | 128.92 | 77.75 |
| R. Icha | 1645.47 | 836.56 | 499.09 | | | |
| Continental coast | | | | | | |
| R. Najahan | 51000 | 7570 | | | | |
| R. Kulkuty | 920 | | | | | |
| R. Ola | 1000 | unit | | | | |
| R. Tauy | 5500 | 1622 | | | | |
| R. Okhota | 4000 | 5000 | | | | |
| R. Amur basin | | | | | | |
| R. Amur | 12868 | 68395 | | | | |
| K. Amgun | 121200 | 212400 | | | | |
| R. Anui | | 14820 | | | | |
| R. Ul | 110 | 9286 | | | | |
| Amur mouth region | | | | | | |
| R. Isky | 10318 | 1078 | | | | |

Continuation of table 9

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------------|----------|----------|---|---|---|---|
| Sakhalin coast | | | | | | |
| R. Langry | 2570.00 | 1800.00 | | | | |
| R. Bakhura | 3400.00 | | | | | |
| R. Tym | | 26200.00 | | | | |
| R. Poronaj basin | | | | | | |
| Cr. Berezovyi | 8980.00 | | | | | |
| R. Ljutoga | 94200.00 | | | | | |
| R. Dudinka | 2700.00 | | | | | |
| R. Kura | 10600.00 | | | | | |
| R. Ochepukha | 66100.00 | | | | | |
| R. Dagi | 8900.00 | | | | | |
| R. Melkaja | 11700.00 | | | | | |
| The Sea of Japan | | | | | | |
| South Western Sakhalin | | | | | | |
| R. Pokosnaja | 8559.00 | | | | | |
| Primor'e | | | | | | |
| R. Ulika | 1820.0 | | | | | |
| R. Barabashevka | | 100.0 | | | | |
| R. Rjazanovka | | 240.0 | | | | |

Table 10

Quantity of different gears on pacific salmon fishery in Russia, by regions
and subregions, in specimen, 1998.

| Region, subregion | Gears | | Total |
|-----------------------|-------------------|-------------|-------|
| | Set (beach) seine | River seine | |
| Eastern Kamchatka | 71 | 107 | 178 |
| Kuriles | 111 | 36 | 147 |
| The Sea of Okhotsk | | | |
| Western Kamchatka | 128 | 341 | 469 |
| Continental Coast | 19 | 222 | 241 |
| Sakhalin Coast | 224 | 17 | 241 |
| Amur Basin | | 8 | 8 |
| The Sea of Japan | | | |
| Primor'e | | no data | |
| Southwestern Sakhalin | 23 | 0 | 23 |

Table 12

Average weights (kg) of salmon in commercial catches in Russia (Far East)
by species, region and subregion, 1998.

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook |
|-----------------------|------|------|---------|------|---------|
| Western Bering Sea | 1.2 | 3.10 | 2.80 | | |
| Eastern Kamchatka | 1.20 | 3.36 | 2.18 | 3.13 | 6.21 |
| Kuriles | 1.19 | 3.40 | | | |
| The Sea of Okhotsk | | | | | |
| Continental coast | 1.07 | 3.43 | 2.45 | 3.47 | |
| Western Kamchatka | 1.25 | 3.23 | 2.18 | 2.56 | 8.09 |
| Sakhalin coast | 1.06 | 2.94 | | | |
| Amur Basin | 0.90 | 3.00 | | | |
| The Sea of Japan | | | | | |
| Primor'e | 0.91 | 3.60 | | | |
| Southwestern Sakhalin | 0.76 | 2.90 | | | |

Table 13

Sport catch of Pacific salmon in Russia (Far East) by species, and area, in numbers of fish, 1998.

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook | Total |
|-----------------------|---------|------|---------|-------|---------|---------|
| Eastern Kamchatka | 1635270 | 1120 | 3320 | 11880 | 2090 | 1653680 |
| Kuriles | 63200 | | | | | 63200 |
| The Sea of Okhotsk | | | | | | |
| Western Kamchatka | 17660 | 3210 | 18550 | 8240 | 760 | 48420 |
| Continental Coast | | | | | | |
| Sakhalin Coast | 63300 | 4700 | | | | 68000 |
| Amur River Basin | | | | | | |
| The Sea of Japan | | | | | | |
| Primor'e | | | | | | |
| Southwestern Sakhalin | 25300 | | | | | 25300 |
| Total | 1804730 | 9030 | 21870 | 20120 | 2850 | 1858600 |

Table 14

Subsistence catch of Pacific salmon in Russia (Far East) by species, and area, in numbers of fish, 1998.

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook | Total |
|--------------------|---------|---------|---------|-------|---------|---------|
| Eastern Kamchatka | 44930 | 850 | 640 | 2740 | 350 | 49510 |
| The Sea of Okhotsk | | | | | | |
| Western Kamchatka | 41560 | 14050 | 36540 | 10240 | 3150 | 105540 |
| Continental Coast | 350984 | 23040 | 1130 | 3787 | | 378941 |
| Sakhalin Coast | 51200 | 54500 | | | | 105700 |
| Amur River Basin | 1997870 | 999130 | | | | 2997000 |
| The Sea of Japan | | | | | | |
| Primor'e | | 500 | | | | 500 |
| Total | 2486544 | 1092070 | 38310 | 16767 | 3500 | 3637191 |

Table 15

**Catch of Pacific salmon by foreign fishery fleet in far-eastern Russian exclusive economic zone
by species, by region, in tonnes, 1998.**

| Region, subregion | Pink | Chum | Sockeye | Coho | Chinook | Masu | Total |
|--------------------|-------|---------|---------|-------|---------|------|---------|
| Eastern Kamchatka | 10.0 | 4628.0 | 1004.0 | 1.0 | 149.0 | | 5792.0 |
| Southern Kuriles | 460.0 | 5139.0 | 1048.0 | 666.0 | 167.0 | | 7480.0 |
| Northern Kuriles | 23.0 | 150.0 | 439.0 | 10.0 | 7.0 | | 629.0 |
| The Sea of Okhotsk | | | | | | | |
| Western Kamchatka | 111.0 | 929.0 | 151.0 | 29.0 | 3.0 | | 1223.0 |
| Sakhalin coast | 19.0 | 1166.0 | 3.0 | 3.0 | 3.0 | | 1194.0 |
| The Sea of Japan | | | | | | | |
| Primor'e | 295.0 | | | | | 3.0 | 298.0 |
| Total | 918.0 | 12012.0 | 2645.0 | 709.0 | 329.0 | 3.0 | 16616.0 |