Commercial Fisheries Hawaii Tables

2006 Economic Impacts of Commercial Fishing Industry (thousands of dollars)

| | Sales Impacts | Income Impacts | Employment Impacts |
|--------------------------------------|---------------|----------------|--------------------|
| Total Impacts | 496,227 | 254,252 | 11,148 |
| Commercial Harvesters | 130,649 | 39,738 | 2,849 |
| Seafood Processors and Dealers | 35,719 | 19,339 | 441 |
| Seafood Wholesalers and Distributors | 56,220 | 29,072 | 546 |
| Retail Sectors | 273,639 | 166,103 | 7,312 |

Total Landings Revenue and Landings Revenue of Key Species/Species Groups (thousands of dollars)

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total Revenue | 61,571 | 61,041 | 62,900 | 68,196 | 48,134 | 52,398 | 52,713 | 57,675 | 71,034 | 66,119 |
| Finfish & Other | 60,111 | 58,932 | 61,557 | 67,833 | 47,912 | 52,092 | 52,451 | 57,270 | 70,670 | 66,013 |
| Shellfish | 1,460 | 2,109 | 1,343 | 363 | 222 | 306 | 262 | 405 | 364 | 106 |
| Lobsters | 1,172 | 1,099 | 835 | 98 | 97 | 122 | 69 | 90 | 111 | 61 |
| Mahimahi (Dolphin) | 1,668 | 1,698 | 2,564 | 3,187 | 2,264 | 2,627 | 2,934 | 4,909 | 3,597 | 3,642 |
| Marlin | 2,411 | 2,187 | 2,314 | 2,235 | 2,139 | 2,011 | 1,985 | 2,472 | 2,512 | 2,558 |
| Moonfish (Opah) | 814 | 878 | 1,297 | 1,100 | 999 | 1,219 | 1,509 | 1,343 | 1,897 | 1,873 |
| Pomfret | 242 | 331 | 432 | 499 | 386 | 675 | 777 | 1,316 | 1,440 | 1,311 |
| Scad | 1,625 | 1,996 | 1,971 | 1,440 | 881 | 1,066 | 1,094 | 943 | 838 | 1,017 |
| Snappers | 2,420 | 2,113 | 2,202 | 2,478 | 2,033 | 2,077 | 2,059 | 2,235 | 2,033 | 1,780 |
| Swordfish | 16,386 | 14,327 | 14,244 | 12,280 | 1,368 | 1,381 | 702 | 1,225 | 7,768 | 5,125 |
| Tunas | 31,630 | 32,399 | 32,850 | 41,214 | 34,526 | 37,599 | 37,374 | 38,483 | 46,071 | 44,084 |
| Wahoo | 1,285 | 1,469 | 1,695 | 1,663 | 1,657 | 1,452 | 1,917 | 2,201 | 2,253 | 2,329 |

Total Landings and Landings of Key Species / Species Groups (thousands of pounds)

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total Landings | 28,405 | 29,563 | 30,018 | 29,394 | 24,819 | 25,248 | 24,928 | 26,657 | 31,099 | 28,729 |
| Finfish & Other | 28,236 | 29,214 | 29,836 | 29,345 | 24,765 | 25,199 | 24,879 | 26,597 | 30,931 | 28,646 |
| Shellfish | 169 | 349 | 183 | 49 | 54 | 49 | 49 | 60 | 168 | 83 |
| Lobsters | 101 | 112 | 74 | 10 | 9 | 11 | 7 | 9 | 12 | 8 |
| Mahimahi (Dolphin) | 979 | 804 | 1,212 | 1,528 | 1,248 | 1,382 | 1,335 | 2,304 | 1,628 | 1,528 |
| Marlin | 2,438 | 1,983 | 2,017 | 1,582 | 2,490 | 1,652 | 2,520 | 1,983 | 2,395 | 2,662 |
| Moonfish (Opah) | 709 | 849 | 1,105 | 687 | 773 | 913 | 1,101 | 799 | 1,100 | 1,089 |
| Pomfret | 161 | 231 | 314 | 277 | 275 | 492 | 462 | 775 | 677 | 596 |
| Scad | 1,082 | 1,546 | 1,383 | 1,375 | 945 | 946 | 867 | 1,003 | 889 | 875 |
| Snappers | 673 | 619 | 647 | 698 | 600 | 555 | 554 | 600 | 497 | 451 |
| Swordfish | 5,435 | 6,284 | 5,635 | 6,368 | 581 | 726 | 327 | 534 | 3,629 | 3,200 |
| Tunas | 15,052 | 14,914 | 15,056 | 15,032 | 15,579 | 16,263 | 14,819 | 15,757 | 17,359 | 15,609 |
| Wahoo | 713 | 746 | 925 | 654 | 949 | 682 | 1,036 | 910 | 900 | 1,005 |

Average Annual Price for Key Species / Species Groups

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Lobsters | 11.80 | 10.08 | 11.51 | 12.14 | 12.61 | 12.66 | 11.88 | 11.08 | 10.99 | 9.66 |
| Mahimahi (Dolphin) | 1.83 | 2.30 | 2.26 | 2.09 | 1.82 | 1.91 | 2.21 | 2.21 | 2.50 | 2.71 |
| Marlin | 1.07 | 1.15 | 1.22 | 1.41 | 0.96 | 1.34 | 0.85 | 1.34 | 1.15 | 1.07 |
| Moonfish (Opah) | 1.16 | 1.04 | 1.17 | 1.60 | 1.31 | 1.34 | 1.38 | 1.71 | 1.75 | 1.75 |
| Pomfret | 1.52 | 1.44 | 1.38 | 1.80 | 1.42 | 1.38 | 1.69 | 1.72 | 2.23 | 2.28 |
| Scad | 1.64 | 1.43 | 1.57 | 1.65 | 1.75 | 1.87 | 1.74 | 1.97 | 2.11 | 2.31 |
| Snappers | 3.81 | 3.65 | 3.64 | 3.98 | 3.67 | 3.98 | 4.03 | 4.31 | 4.60 | 4.62 |
| Swordfish | 3.02 | 2.29 | 2.53 | 1.93 | 2.39 | 1.93 | 2.21 | 2.36 | 2.26 | 2.04 |
| Tunas | 2.15 | 2.22 | 2.23 | 2.74 | 2.26 | 2.37 | 2.59 | 2.57 | 2.86 | 3.01 |
| Wahoo | 2.00 | 2.16 | 2.01 | 2.54 | 1.83 | 2.20 | 1.94 | 2.58 | 2.75 | 2.61 |

Recreational Fishing Effort by Mode (thousands of trips)¹

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|------------------|------|------|------|------|------|------|-------|-------|-------|-------|
| Private / Rental | | | | | | | 509 | 709 | 578 | 570 |
| Shore | | | | | | | 1,893 | 2,162 | 1,892 | 2,074 |
| Total Trips | | | | | | | 2,402 | 2,871 | 2,470 | 2,644 |

Recreational Anglers by Residential Area (thousands of anglers)¹

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|
| Coastal | | | | | | | 261 | 223 | 204 | 173 |
| Non-Coastal ² | | | | | | | NA | NA | NA | NA |
| Out of State | | | | | | | 180 | 183 | 166 | 224 |
| Total Anglers | | | | | | | 440 | 407 | 370 | 369 |

2006 Angler Trip & Durable Equipment Expenditures (thousands of dollars)

| Fishing Mode | Trip Expend | ditures | Durable Equipment Expenditure Category | Expenditures |
|-------------------------|----------------|-------------|--|--------------|
| | Non-Residents | Residents | Fishing Tackle | 198,844 |
| Private Boat | 5,672 | 36,197 | Other Equipment | 108,782 |
| Shore | 4,257 | 83,267 | Boat Expenses | 128,270 |
| For-Hire | 7,003 | 30 | Vehicle Expenses | 135,316 |
| Total Trip Expenditures | 16,932 | 119,494 | Second Home Expenses | 43,314 |
| | | | Total Durable Equipment Expenditures | 614,527 |
| Total State Trip and D | urable Equipme | nt Expendit | ures | 750,953 |

2006 Economic Impacts of Recreational Fishing Expenditures (thousands of dollars)

| Impact Category | Jobs | Total Sales | Value Added |
|---|-------|-------------|-------------|
| Trip Impacts by Fishing Mode: | | | |
| Private Boat Mode Trip Impacts | 466 | 49,166 | 25,141 |
| Shore Mode Trip Impacts | 1,176 | 100,489 | 53,049 |
| Party/Charter Mode Trip Impacts | 101 | 9,685 | 5,325 |
| Total Durable Equipment Impacts | 5,279 | 613,480 | 297,099 |
| Total State Trip and Durable Equipment Economic Impacts | 7,023 | 772,819 | 380,614 |

Harvest (H) and Release (R) of Key Species / Species Groups (number of fish in thousands)^{1,3}

| Species | | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|----------------------------|---|------|------|------|------|------|------|-------|------|------|------|
| Barracuda (Smallmouth | Н | | | | | | | 25 | 61 | 25 | 63 |
| Bonefish) | R | | | | | | | 4 | 9 | 12 | 2 |
| Dolphinfish (Mahimahi) | Н | | | | | | | 109 | 225 | 178 | 219 |
| Doiphilinish (Mahimani) | R | | | | | | | 1 | (1) | 1 | (1) |
| Goatfishes ⁴ | Н | | | | | | | 794 | 715 | 447 | 813 |
| | R | | | | | | | 10 | 17 | 8 | 16 |
| Jacks (Trevallys and | Н | | | | | | | 125 | 331 | 257 | 210 |
| Other Jacks ⁵) | R | | | | | | | 171 | 146 | 182 | 210 |
| Marlin, Blue | Н | | | | | | | 4 | 5 | 19 | 3 |
| Mariiri, bide | R | | | | | | | (1) | (1) | (1) | (1) |
| Scad, Bigeye and | H | | | | | | | 1,951 | 179 | 726 | 812 |
| Mackerel ⁶ | R | | | | | | | 2 | (1) | 14 | (1) |
| Snappers ⁷ | Н | | | | | | | 233 | 236 | 223 | 177 |
| Shappers | R | | | | | | | 16 | 19 | 57 | 36 |
| Tuna, Skipjack | Н | | | | | | | 440 | 420 | 302 | 201 |
| Tulia, Skipjack | R | | | | | | | 1 | 6 | 1 | 1 |
| Tuna, Yellowfin | Н | | | | | | | 184 | 268 | 231 | 124 |
| Tulia, Tellowilli | R | | | | | | | 5 | (1) | 9 | 1 |
| Wahoo | Н | | | | | | | 105 | 97 | 54 | 62 |
| wanoo | R | | | | | | | (1) | (1) | (1) | (1) |

¹Effort (number of trips), participation (number of anglers) and catch (number of fish harvested or released) data for Hawaii was not available for 1997-2002.

 $^{^{2}}$ All Hawaii residents are considered coastal residents; NA = not applicable.

³In this table, "1" = 1000-1499 fish were harvested or released and "(1)" = less than 1000 fish were harvested or released.

⁴Goatfishes include: Yellowstripe, Yellowfin, Pflugers, Bandtail, Doublebar, Sidespot, Whitesaddle, Manybar, Blue, and "Goatfish Family/Genus."

⁵Trevally and other jacks include: Bluefin Trevally, Giant Trevally, Bigeye Trevally, Black Trevally, African Pompano, Greater Amberjack, Island Jack, and "Other Jack Family/Genus."

⁶Scad (Jacks) include: Bigeye Scad and Mackerel Scad.

⁷Snappers include: Bluestip, Blacktail, Ruby, Longtailed, Pink, VonSiebolds, Binghams, Green Jobfish, Ironjaw, and Smalltooth Jobfish.

| State Economy (% of national total) | | | | | | | | | | | |
|-------------------------------------|----------------|-----------------|-----------------------|------------------------------------|-----------------------|--------------------------|--|--|--|--|--|
| | | | Annual | Employee | Gross State | Commercial Fishing | | | | | |
| | Establishments | Employees | Payroll (\$ millions) | Compensation (\$ millions) | Product (\$ millions) | Location Quotient | | | | | |
| 1998 | 29,603 (0.43%) | 416,571 (0.39%) | 11,292 (0.34%) | 24,568 (0.41%) (2001) ¹ | 37,549 (0.43%) | 7.26 (2002) ² | | | | | |
| 2005 | 32,244 (0.43%) | 490,682 (0.42%) | 16,163 (0.36%) | 32,314 (0.46%) | 54,773 (0.44%) | 4.55 (2006) ² | | | | | |
| % change | 8.9 | 17.8 | 43.1 | 31.5 | 45.9 | -37.3 | | | | | |

Seafood Sales and Processing - Non-Employer Firms and Annual Receipts (thousands of dollars)

| | | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Confood calos metail | Firms | 37 | 29 | 23 | 34 | F | 36 | 33 | 29 |
| Seafood sales, retail | Receipts | 2,829 | 2,829 | 3,670 | 2,497 | F | 4,753 | 2,875 | 3,487 |
| Seafood product preparation & | Firms | 6 | 8 | 3 | 7 | 7 | 9 | 11 | 5 |
| packaging | Receipts | 45 | 160 | 44 | 231 | 1,566 | 1,034 | 1,309 | 409 |

| Seafood Sales and Processing | food Sales and Processing – Employer Establishments, Employees, and Annual Payroll (thousands of dollars) | | | | | | | | | |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | |
| | Establishments | 21 | 21 | 23 | 27 | 29 | 31 | 31 | 29 | |
| Seafood sales, retail | Employees | 178 | 181 | 183 | 235 | 229 | 317 | 321 | 326 | |
| | Payroll | 2,947 | 3,063 | 2,969 | 3,773 | 3,737 | 5,187 | 5,038 | 5,007 | |
| | Establishments | 56 | 50 | 49 | 51 | 44 | 33 | 36 | 32 | |
| Seafood sales, wholesale | Employees | 507 | 493 | 510 | 812 | 525 | 654 | 404 | 485 | |
| | Payroll | 14,958 | 16,186 | 17,805 | 17,656 | 15,203 | 12,653 | 13,949 | 15,163 | |
| Seafood product preparation & packaging | Establishments | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | |
| | Employees | F | F | F | F | 86 | F | F | F | |
| | Payroll | F | F | F | F | 2.584 | F | F | F | |

Transport, Support, and Marine Operations - Employer Establishments, Employees, and Annual Payroll (thousands of dollars)

| | | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Deep sea freight transportation | Establishments | 2 | 2 | 2 | 2 | 2 | 1 | М | М |
| | Employees | F | F | F | F | F | F | M | M |
| | Payroll | F | F | F | F | F | F | M | M |
| Coastal & Great Lakes freight transportation | Establishments | 10 | 13 | 13 | 11 | 11 | 10 | 11 | 13 |
| | Employees | F | F | 507 | 463 | F | F | F | F |
| | Payroll | F | F | 30,087 | 25,782 | F | F | F | F |
| Marine cargo handling | Establishments | 7 | 7 | 7 | 6 | 7 | 8 | 8 | 8 |
| | Employees | 601 | 673 | 663 | 426 | 756 | F | F | 694 |
| | Payroll | 33,008 | 32,743 | 37,306 | 24,920 | 49,975 | F | F | 53,061 |
| Navigational services to shipping | Establishments | 6 | 6 | 6 | 5 | 7 | 7 | 6 | 6 |
| | Employees | F | 126 | 63 | 103 | F | F | F | F |
| | Payroll | F | 6,601 | 2,637 | 5,926 | F | F | F | F |
| Ship & boat building | Establishments | 17 | 19 | 17 | 17 | 16 | 14 | 17 | 16 |
| | Employees | F | F | F | F | F | 480 | 589 | F |
| | Payroll | F | F | F | F | F | 22,053 | 20,908 | F |
| Marinas | Establishments | 7 | 6 | 10 | 7 | 8 | 11 | 11 | 10 |
| | Employees | 66 | 76 | F | F | 56 | 177 | 178 | 181 |
| | Payroll | 1,145 | 1,257 | F | F | 1,414 | 3,285 | 3,439 | 3,354 |
| Port and harbor operations | Establishments | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Employees | F | F | F | F | F | F | F | F |
| | Payroll | F | F | F | F | F | F | F | F |

F = Data is suppressed due to confidentiality restrictions.

M = Data is not available.

¹Employee Compensation data is currently available from 2001-2005. ²Commercial Fishing Location Quotient data is available from 2001-2006 for most states. Data from other years is displayed when 2001 and/or 2006 data is unavailable.