
Alaska Fisheries Information Network

Predominant Species Determination

Procedures and Documentation for Scripts Used to Determine Predominant
Species on the CFEC Fish Ticket Data

DRAFT

Prepared on January 23, 2003 by:

Resource Data, Inc.
1205 East International Airport Rd., Suite 100
Anchorage, AK 99518

Contact: Camille Kohler
(907) 786-4130
camille@resdat.com

Predominant Species Determination

The AKFIN-developed predominant species program determines the predominant species (PS) on the fish ticket data from both the CFEC and ADFG versions of the table on both non-groundfish and groundfish tickets. The program, runs a series of table creations and updates that determine the PS of a particular fish ticket as identified by the ticket number, batch number, office code, and statistical area combination (ticket identifier) on the record.

The program calculates and determines the predominant species for fish tickets based on the ticket identifier, statistical area, and permit fishery. Only commercial tickets (C_LANDST = 'C') were and prohibited species harvest was removed by including only the primary species grouping from each fish ticket fishery or database. Those codes applied to the CFEC commercial fish ticket records as the predominant species can be found in the following table.

Predominant Species Code	Predominant Species Description
A	ATKA MACKEREL
AB	ABALONE
C	PACIFIC COD
CD	DUNGENESS CRAB
CK	KING CRAB
CL	CLAM
CO	KOREAN HORSEHAIR CRAB
CT	TANNER CRAB
CU	SEA CUCUMBER
DS	DEMERSAL SHELF ROCKFISH
F	FLATFISH
HA	HALIBUT
HE	HERRING
L	FLATHEAD SOLE
LC	LINGCOD
OC	OCTOPUS/SQUID
OF	FRESHWATER FINFISH
OR	ROCKFISH
OS	OTHER
P	POLLOCK
PO	PACIFIC OCEAN PERCH
R	ROCK SOLE
S	SABLEFISH (BLACK COD)
SA	SCALLOP
SC	CHINOOK SALMON
SH	SHRIMP
SN	SNAILS
SO	SALMON, COHO
SP	SALMON, PINK
SR	SALMON ROE
SS	SALMON, SOCKEYE
SU	SALMON, CHUM

T	TURBOT
UR	SEA URCHIN
W	ARROWTOOTH
X	REX SOLE
Y	YELLOWFIN SOLE
ZZ	OTHER

Table 1: Predominant Species Codes and Descriptions. Codes applied to the CFEC commercial groundfish tickets to denote the determined predominant species.

Steps are involved in the process of identifying the predominant species for each ticket identifier/statistical area/permit fishery combination. Each iteration applies a different rule to determine the predominant species for the given fish ticket number and statistical area. The rules for determining predominant species can be found in the following table.

Rule Number	Definition
Rule 1	PM equals halibut based on GOA catch on halibut permit WHERE SUBSTR (P_FSHY, 1, 1) = 'B'
Rule 2	PM equals black cod (sablefish) based on GOA catch on southeast sablefish permit WHERE SUBSTR(P_FSHY, 1, 1) = 'C' AND SUBSTR (P_FSHY, 4, 1) = 'E' or 'A'
Rule 3	PM equals species with the maximum percentage based on GOA catch on non-southeast sablefish permit not WHERE SUBSTR(P_FSHY, 1, 1) = 'C' but SUBSTR(P_FSHY, 4, 1) <> 'E' or 'A'
Rule 4	PM equals species with the maximum percentage on a GOA catch.
Rule 5	PM equals halibut based on a BSAI catch on halibut permit WHERE SUBSTR(P_FSHY, 1, 1) = 'B'
Rule 6	PM equals species with maximum percentage on BSAI catch
Rule 7	PM equals species with the maximum percentage found neither in BSAI or GULF (having no stat area translation)
Rule 8	PM equals permit species if no max percent species found greater than 50% PM set to permit species (see permit species reference)
Rule 9	PM equals miscellaneous groundfish if no maximum percentage is greater than 50% and permit species is NULL
Rule 10	PM equals species with maximum percentage if percentage is greater than 50%

Table 2: Rules for Determining the Predominant Species. Rules applied by the logic throughout the six phases of determining the predominant species.