Science, Service, Stewardship

Commercial Landings Monitoring System

SEFSC

June 2012

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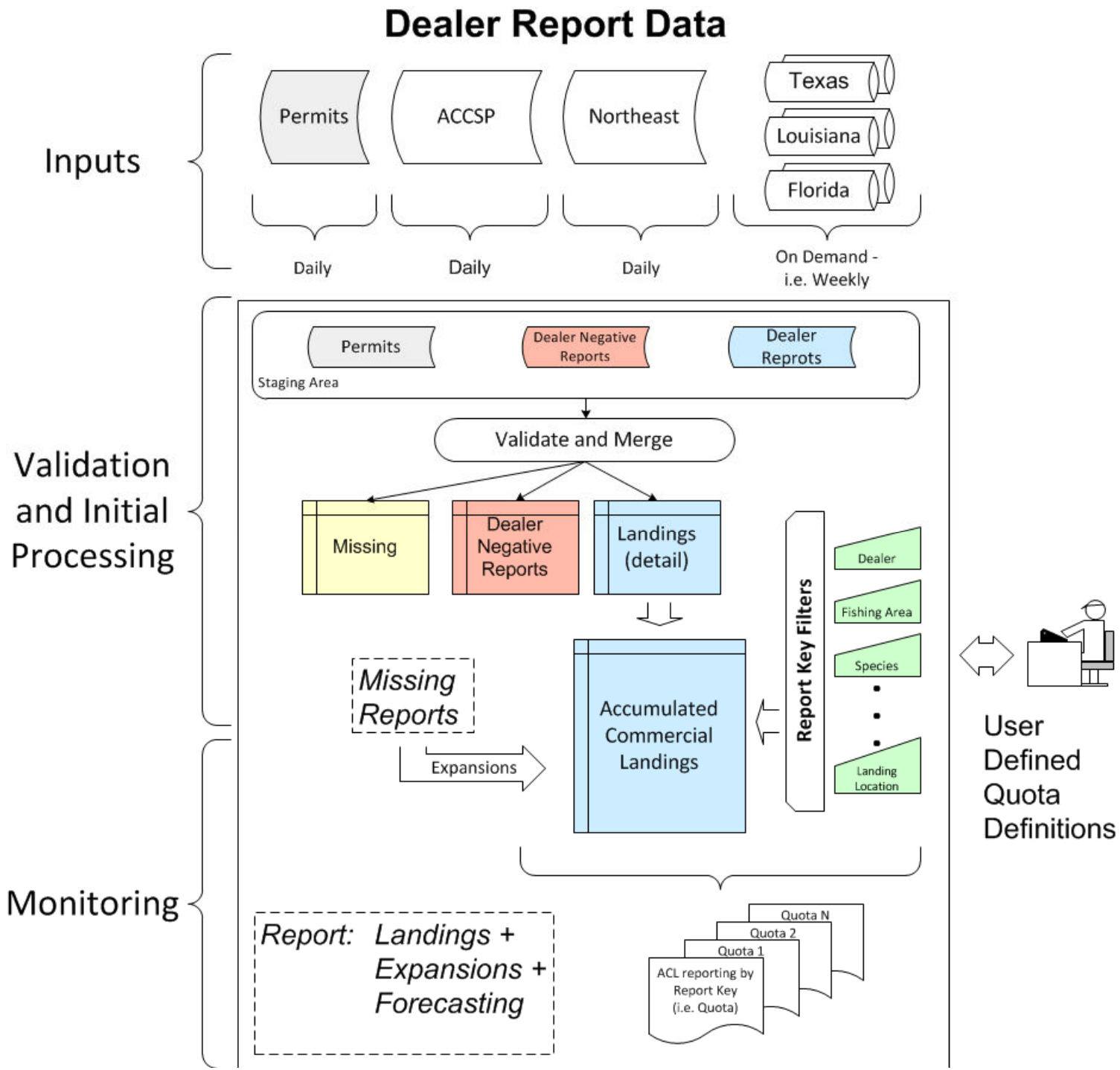
Dealer Report Data
Inputs
Permits
ACCSP
Northeast
Texas
Louisiana
Florida
Daily
Daily
Daily
On Demand - i.e. Weekly
Validation and Initial Processing
Permits
Dealer Negative Reports
Dealer Reprots
Staging Area
Validate and Merge
Missing
Dealer Negative Reports
Landings (detail)
Missing Reports
Expansions
Accumulated Commercial Landings
Report Key Filters
Dealer
Fishing Area
Species
Landing Location
User Defined Quota Definitions
Monitoring
Report: Landings + Expansions + Forecasting
Quota N
Quota 2
Quota 1
ACL reporting by Report Key (i.e. Quota)

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Commercial Landings Monitoring System

- Nightly downloads from ACCSP, NEFSC and received Bluefin Data information (FL-TX)
- Nightly updates of quota status + days to closure
- User defined quotas / ACLs to be monitored given
  - Species, date ranges, fishing area, landing areas and gears
- Review individual dealer reports
- Dealer changes to their earlier reports automatically incorporated

Quota Summary | Quota Detail | Quota Daily Report | Landings & Expansions | Quota Maintenance

Summarized landings by stock or stock group. *Includes:*

- *reported landings*
- *% of quota taken &*
- *forecasts of days to close.*

Review details of landings reports, expansions, and forecasts.

(users with confidential access only)

Maintain Quota & ACL definitions.

- *species*
- *fishing areas*
- *landing locations*
- *gears*
- *quota amounts*
- *start and end dates.*

Supports complex quota definitions with multiple date rangers and geographic boundaries.

Details on specific quotas

- *By dealer or*
- *aggregated (daily, weekly, monthly summaries)*
- *View data as reported on earlier dates*
- *View forecasts of future landings.*

South Atlantic Report

Reported Landings

Stock/Stock Group

Quota Date Range

Quota

Current Landings

% of Quota

Quota Name	Season Start	Season End	Quota Weight	Cur Landings	%
AGGREGATE GROUPER (B	01-JAN-12	31-DEC-12	662,403	57,240	9
COBIA QUOTA SA 2012	01-JAN-12	31-DEC-12	125,712	40,729	32
GAG GROUPER QUOTA SA	01-JAN-12	31-DEC-12	352,940	35,626	10
GOLDEN TILEFISH QUOT	01-JAN-12	31-DEC-12	282,819	398,386	141
GRTR AMBERJACK QUOTA	01-MAY-12	30-APR-13	800,163	104,929	13
RED PORGY QUOTA SA 2	01-JAN-12	31-DEC-12	190,050	7,709	4
SNOWY GROUPER QUOTA	01-JAN-12	31-DEC-12	82,900	11,773	14
VERMILION SNAPPER QU	01-JAN-12	30-JUN-12	315,523	382,136	121

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Commercial Landings Monitoring: Late Reporting/Non-Reporting

month landed

month reported

Quota Name	Rep Year	Month Landed	Rep Month	Total Landings
SPANISH MACKEREL ACL SA 2012/13	2012	MAR	MAR	64,033
SPANISH MACKEREL ACL SA 2012/13	2012	MAR	APR	115,449
SPANISH MACKEREL ACL SA 2012/13	2012	MAR	MAY	117,328
				296,809

40% of March Spanish mackerel landings reported in May

Expansion is used to account for non-reporting through the most recent reporting period

South Atlantic Report

Reported + Expanded Landings and Forecast Days Remaining

Stock/Complex → Quota → Reported Landings % → Reported + expanded Landings %

Quota Name	Quota Weight	Reprt Landings	%	Prior Yr Same Day	%
AGGREGATE GROUPER (BLACK RED GAG) ACL SA 2012	662,403	57,240	9	75,050	11
ATLANTIC SPADEFISH ACL SA 2012	36,476	907	2	1,418	4
BLACK GROUPER ACL SA 2012	90,575	5,083	6	12,892	14
COBIA ACL SA 2012	125,712	40,729	32	45,872	36
DEEPWATER COMPLEX ACL SA 2012	343,869	105,192	31	105,426	31
DOLPHIN ACL SA 2012	1,065,524	108,392	10	121,151	11
GAG GROUPER ACL SA 2012	352,940	35,626	10	42,226	12
GRAY TRIGGERFISH ACL SA 2012	305,262	168,703	55	174,317	57
GRTR AMBERJACK ACL SA 2012/13	800,163	104,929	13	134,075	17
GRUNTS ACL SA 2012	214,624	23,556	11	31,809	15

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Commercial Landings Monitoring: Expansion

Expansion – accounting for non-reporting through the most recent reporting period

- Current approach –
  - If a dealer has not reported for a reporting period use that dealer's landings for the same period in the previous year
- Future approach –
  - Same as above except scale previous years landings by (this year's landing rate)/(last year's landing rate) to account for better or worse fishing conditions, etc.

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Commercial Landings Monitoring: Forecasting

Forecasting – calculates closure dates to avoid exceeding ACLs

- Forecast under multiple assumptions of fishing conditions and fishing pressure
- Current approach - each dealer's landings from previous year
- Additional approaches include:
  - Each dealer's previous year performance scaled to (current year's landings)/(previous year's landings)
  - Highest rate for entire fishery in previous and current year

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Commercial Landings Monitoring: Problematic Expansions

- **For most stocks/complexes expansions appear reasonable – indicating 0%-20% non-reporting**
  - Many of these are stocks for which dealers are required to have permits to land and were monitored in past through SEFSC Quota Monitoring System. Dealers accustomed to reporting regularly.
- **For some species expansions indicated 50%-80% of landings had not been reported** (not considered to be accurate, e.g., bar jack, king mackerel, Spanish mackerel)
  - Most likely this is partially (or primarily) a data/system issue. On-going work is expected to reduce/correct this problem
  - Current regulations do not require dealer permits for these species

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Commercial Landings Monitoring: Quota Definition Tools

- User defined quotas
- Built from user defined
  - Species or species groups
  - Gear groups
  - Fishing area groups
  - Landing location groups (used when fishing area is absent)

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Commercial Landings Monitoring: Quality Control & Investigative Tools

- Built-in checking of landings reports vs. ACCSP and GulfFIN code lists.
- Linked to SEFSC dealer reconciliation system and SERO permit data base. Dealers often have many permit numbers. Unique identifier needed to know which dealers have reported and which have not. Need to expand for non-reporting and for compliance monitoring.
- Capability to review input data (users with confidential access only) and expansion/forecast parameters to verify that the system is working as expected.
- Flexibility to expand and augment

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Commercial Landings Monitoring: Progress to Be Made

- Federal permits needed for dealers of all federally managed species
  - Reduces uncertainty by defining who should be reporting
  - Allows for compliance monitoring of dealers
- Work with dealers / states to improve timeliness of reports
- Continue refining system
  - Resolve unrealistic expansions for some stocks
  - Develop dealer compliance report
  - Develop / refine additional data treatments + forecasts