

SPECIAL PROJECT APPLICATION
2008 RACE BOTTOM TRAWL SURVEYS
EBS Bottom Trawl Survey

1. Project Title: Bitter Crab Syndrome in North Pacific *Chionoecetes* sp.

Principle Investigator (PI)/Point of Contact: Frank Morado

Affiliation: AFSC/RACE

Address: 7600 Sand Point Way NE, Bldg 4, Seattle, WA 98115

Email: Frank.Morado@noaa.gov

Phone: 206.526.6572

2. History of work with AFSC RACE Division

- a. **Past Special Projects with RACE:** Monitoring of BCS in Bering Sea Tanner crabs, 1987 to present (Meyers, T.R., **Morado, J.F.**, Sparks, A.K., Bishop, G.H., Pearson, T., Urban, D. & Jackson, D. 1996. The distribution of bitter crab syndrome in Tanner crabs (*Chionoecetes bairdi*, *C. opilio*) from the Gulf of Alaska and the Bering Sea. Dis. Aquatic Org. 26: 221-227); DNA based identification of EBS fish and invertebrates, 2004 to present; parasite fauna of EBS fish 2004.

b. Priorities: How proposed project relates to NOAA Fisheries Strategic Plan

Objective	Performance Measure	Strategy	Program Outcome
Maintain healthy stocks important to commercial, recreational and subsistence fisheries	Reduce the level of uncertainty associated with our estimates of stock status and biological potential below 1996 levels.	“periodically assess stocks to ascertain whether changes in their status due to natural or human-related causes have occurred”	To more accurately estimate natural mortality with respect to BCS and its potential impact on the abundance and distribution patterns of EBS snow and Tanner crabs.

- c. **RACE collaboration:** Pathobiology staff will collect and analyze samples.

3. General Description and Justification: Bitter Crab Syndrome (BCS) is a fatal disease of commercially important *Chionoecetes* species of the North Pacific and is emerging worldwide in other decapod hosts. In the Eastern Bering Sea, a major decline in the abundance of legal sized snow crabs has been observed in the last five years and the Tanner crab population has been depressed since 1996. This project is intended to prolong a rare long-term study on the potential impact of a specific disease on commercially exploited crustaceans. Specifically, this project is designed to monitor the impact of BCS on both mature and immature snow and Tanner crabs. Approximately 175 stations (Figure 1) were randomly pre-selected for sampling as part of an ongoing study on this disease. The sampler will collect hemolymph by syringe from 10-20 crabs of the dominant *Chionoecetes* species at each designated station completed by the vessel with Pathobiology staff (approximately half of the designated stations). Hemolymph will be preserved in 100% ethanol.

COLLECTION PROTOCOL

4. Detailed collection procedures: a specific collection form is required and attached (Appendix 1).

What: Crab hemolymph from the following species:

Priority: *Chionoecetes* spp. (*C. opilio*, *C. bairdi*)

When available: *Hyas* spp., *Pagurus ochotensis*, *P. aleuticus*

Where: Randomly pre-selected EBS stations (approx. half of 175 stations)

When: After routine haul duties at designated stations, all three legs of EBS survey
Collection methodology: Randomly select at least ten but up to twenty specimens of the dominant *Chionoecetes* species. Record crab species, sex, shell condition, morphometry, visual BCS status, plate #, vessel, cruise and haul. Using a syringe draw 0.2mL hemolymph from the arthroal membrane. Preserve hemolymph sample in 100% ethanol stored in pre-filled 96-well plates.

Quantity: up to 2000 hemolymph samples (~650 per survey leg, one boat only)

Time Requirement: 20-30 min per sampled station, after other survey tasks are completed

5. **List of supplies:** We will provide 2200 1mL syringes, calipers, 20 96-well plates, sharps containers, biohazard bags, datasheets, shipping materials
6. **Data storage:** We do not require data storage in the Groundfish database, but would like to relate our data to haul level data.
7. **Hazardous materials:** 100% Ethanol (filled into 96-well plates prior to survey).

SHIPPING

8. **24/7 contacts:** Christie Shavey (206) 526.6715, Vanessa Lowe (206) 526.4107, Frank Morado (206) 526.6572

9. **Detailed shipping instructions:**

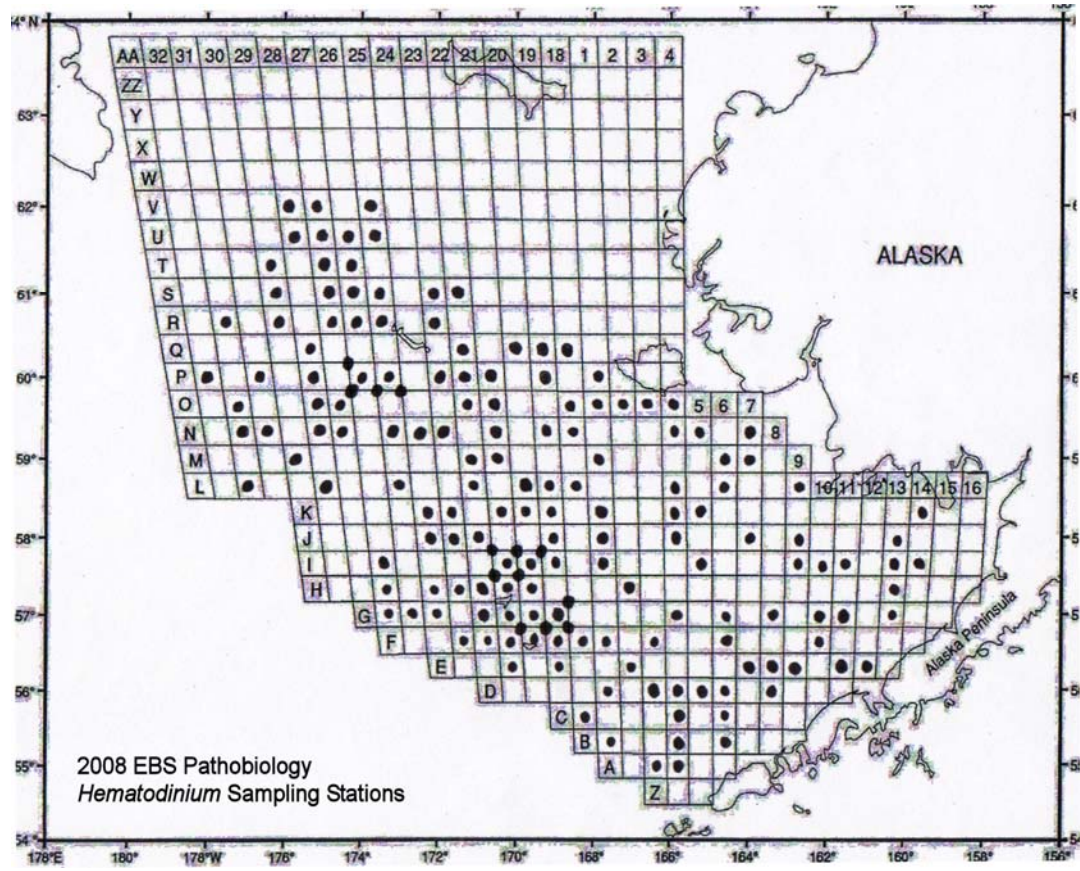
Shipping: Will use AFSC shipping van to and from Dutch Harbor. Ethanol packaging conforms to small quantity exception 49 CFR 173.4, proper shipping papers not required.

Shipping containers used: Outer container – DOT approved 5-gallon plastic twist top labeled buckets. Inner container - 96-well plates (1.2 ml wells) containing ethanol and sample individually contained in resealable plastic bags with absorbent spill pad. Used syringes will be transported in autoclave bags to be disposed of at AFSC. Used needles will be contained in sharps containers and disposed of at AFSC.

PERMITS

10. **Permits issued:** ADF&G Fish Resource Permit #

Figure 1.



Cruise: 2008-01General Location: EBS

Plate Number: _____

Vessel: _____

Leg: _____

Collected by: _____

	1	2	3	4	5	6	7	8	9	10	11	12																																																																																																																																																														
A	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	A
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
B	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	B
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
C	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	C
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
D	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	D
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
E	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	E
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
F	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	F
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
G	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	G
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
H	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	<table border="1"><tr><td>M</td><td>Sp</td><td>Sz</td></tr><tr><td>F</td><td></td><td></td></tr><tr><td>Sh</td><td>C</td><td>+</td></tr><tr><td></td><td></td><td>BCS</td></tr></table>	M	Sp	Sz	F			Sh	C	+			BCS	H
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								
M	Sp	Sz																																																																																																																																																																								
F																																																																																																																																																																										
Sh	C	+																																																																																																																																																																								
		BCS																																																																																																																																																																								

Put * in BSC section when sample is NON-random

****Don't forget haul number! Write it on the end of the rows and mark the ending/starting box with:

Notes: (NON-random? Vacutainers? Mistakes? Anything Unusual?)

