Project Calendar
April 2006 to March 2007

Month	Workplan Sampling	Workplan # Sites	Completed/Add'l # Sites	Actual/Add'l Sampling Freq.	Sampling Program
April	1x	6	7	1x (no water/seston)	1
May	1x	9	9	1x (no water/seston)	2
May	1x	9	9	1x	3
Jun	1x	9	9	1x (no water / seston)	4
Jun	1x	9	9	1x	5
July	1x	6	6	1x	6
July	1x	6	6	1x	7
Aug	1x	6	6	1x	8
Aug	0x	0	6	1x	9
Sep	1x	6	6	1x	10
Oct	1x	6	6	1x	11
Nov	1x	6	6	1x	12
Dec	0x	0	6	1x	13
Jan 07	0x	0	6	1x	14
Mar 07	0x	0	3	1x	15
TOTAL	11	78	100	12/4	

Additional sampling was done in March in conjunction with collection of seston for selenium speciation analysis to be done by Jason Unrine..

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Number of Samples Collected

Month	Artemia Biomass (A&N) (Workplan)	Artemia Biomass (A, J, & N)	Seston Samples (Workplan)	Seston Samples (Collected)
April	12	18	0	0
May	36	46	18	9
June	36	36	18	9
July	24	24	12	12
Aug	12	24	6	12
Sep	12	18	6	6
Oct	12	18	6	6
Nov	12	18	6	6
Dec	0	18	0	6
Jan '07	0	6	0	6
Mar '07	0	3	0	3
TOTAL	**156**	**229**	**72**	**75**

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Number of Samples Collected (Continued)

Month	GSL Water (Workplan)	GSL Water (Collected)	GSL 0.45 uM Water (Workplan)	GSL 0.45 uM Water (Collected)
April	0	0	0	0
May	18	9	0	9
June	18	9	0	9
July	12	12	0	12
Aug	6	12	0	12
Sep	6	6	0	6
Oct	6	6	0	6
Nov	6	6	0	6
Dec	0	6	0	6
Jan	0	6	0	6
TOTAL	72	72	0	72

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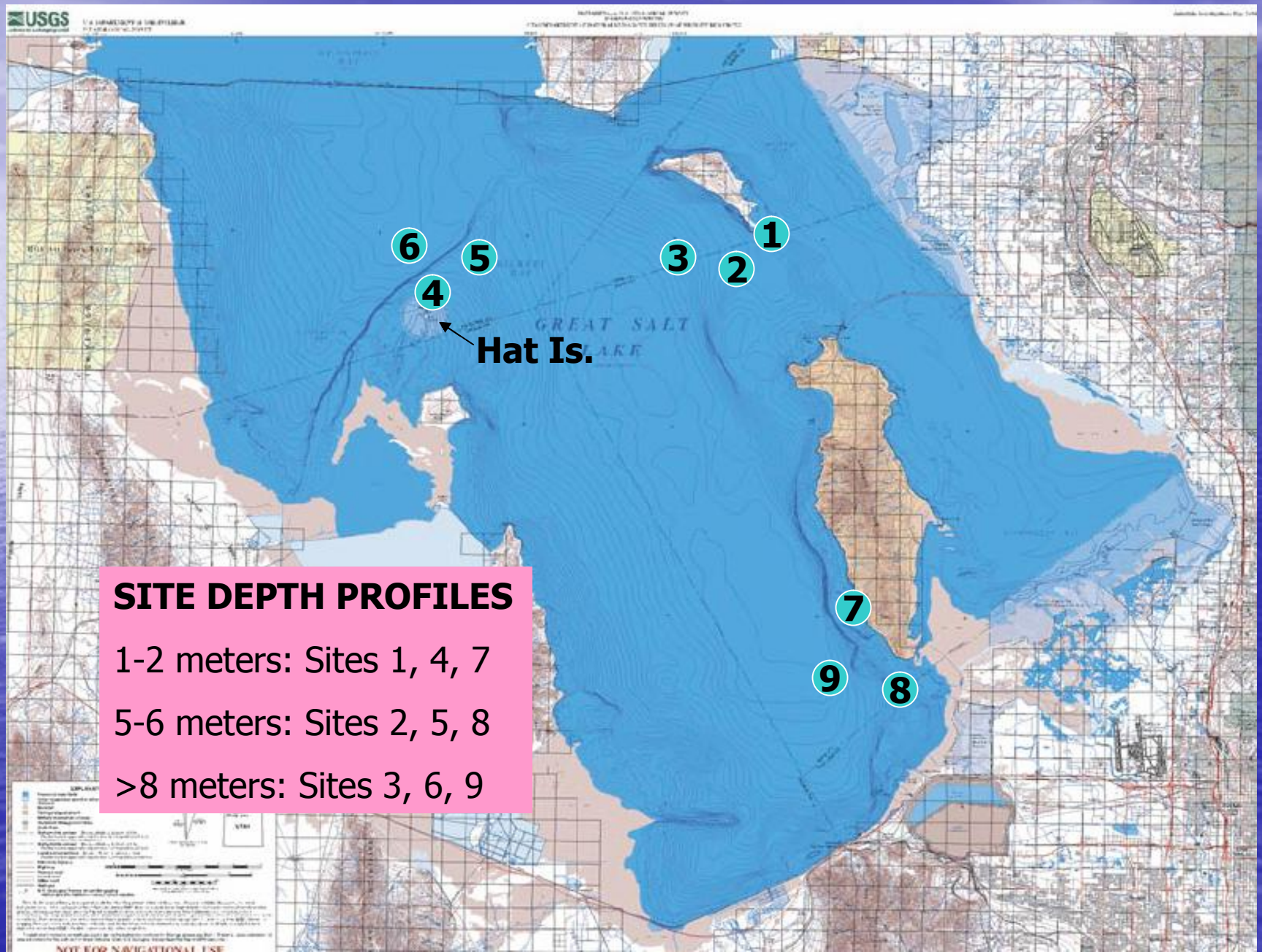
Sampling Locations



SITE DEPTH PROFILES

1-2 meters: Sites 1, 4, 7

5-6 meters: Sites 2, 5, 8

>8 meters: Sites 3, 6, 9

Samples at Each Site

Artemia Biomass:	**From 1, 3, & 5 meter water column net hauls. Adult, Juvenile, Nauplii/Cysts**
Seston:	**Filter 1-3 liters using 0.45 micron 155 mm cellulose acetate filters.**
Water Samples:	**2 replicate 250 ml water samples filtered through 125 micron sieve.**
	One 250 ml water sample filtered through 0.45 cartridge filter.
Algae:	**One liter sample filtered through 125 micron sieve.**
Chlorophyll:	**A 250 ml sample filtered through 125 micron sieve.**
Floating Cysts:	**Opportunistic sampling of any floating accumulations of cysts.**

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Abiotic Assessments at Each Site

Assessment Intervals:	**1m, 3m, 5m, 6m, 7m, 8m**
Salinity:	**Temperature compensated refractometer**
Dissolved Oxygen:	**Percent Saturation using YSI dissolved oxygen meter**
Water Temperature:	**Digital recording.**
Secchi Disk:	**20 cm standard black/white disk.**

Analytical Laboratories

- **Artemia and Seston:** **LET, Columbia, MO**
- **Water Samples:** **Frontier Geosciences, Seattle, WA.**
- **Chlorophyll:** **Aquatic Resources Inc. Seattle, WA.**
- **Phytoplankton:** **Laboratory Ichthyology and Hydrobiology, Institute of Zoology, Tashkent, Uzbekistan**

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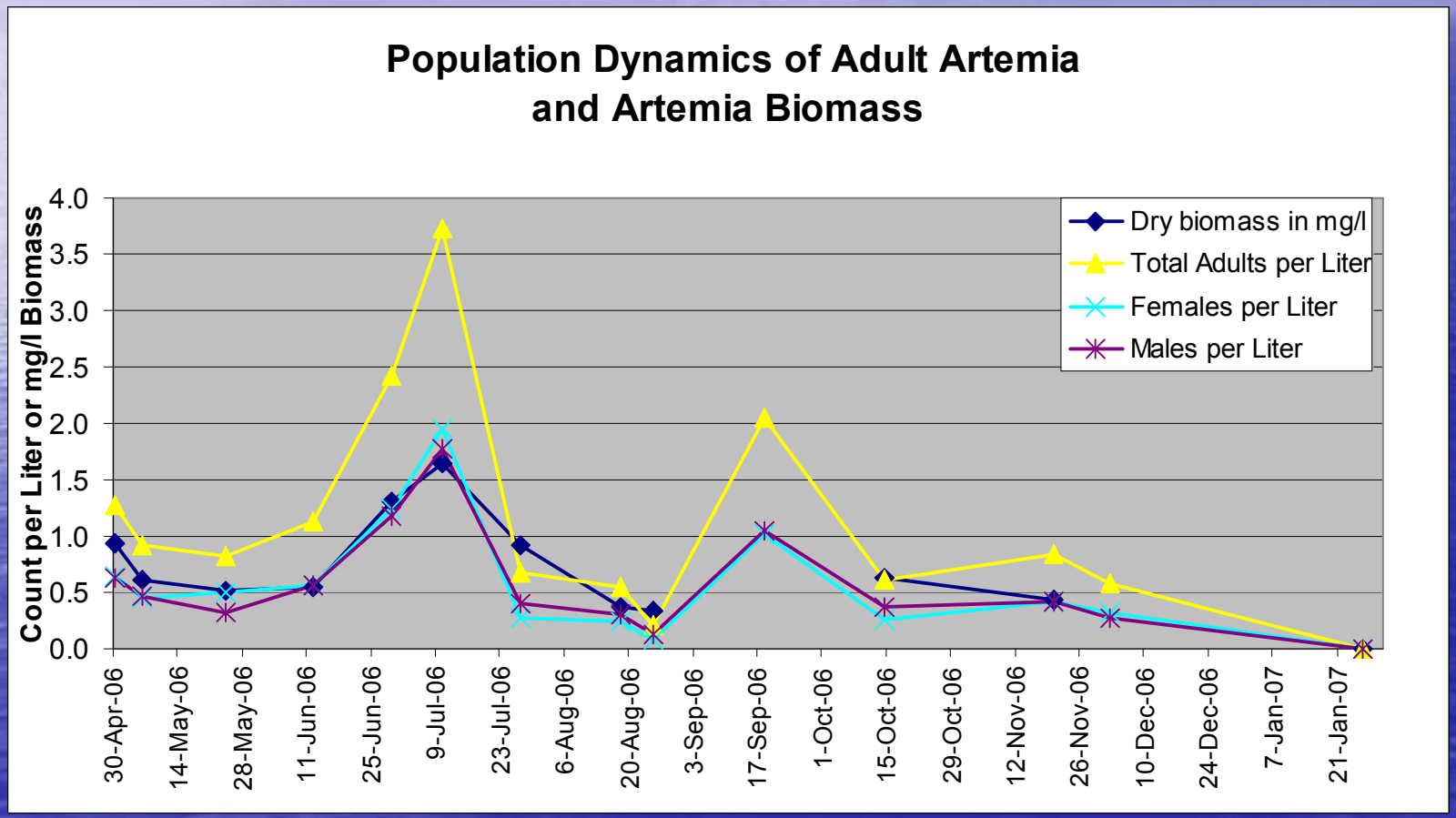
RESULTS
Artemia Population Dynamics



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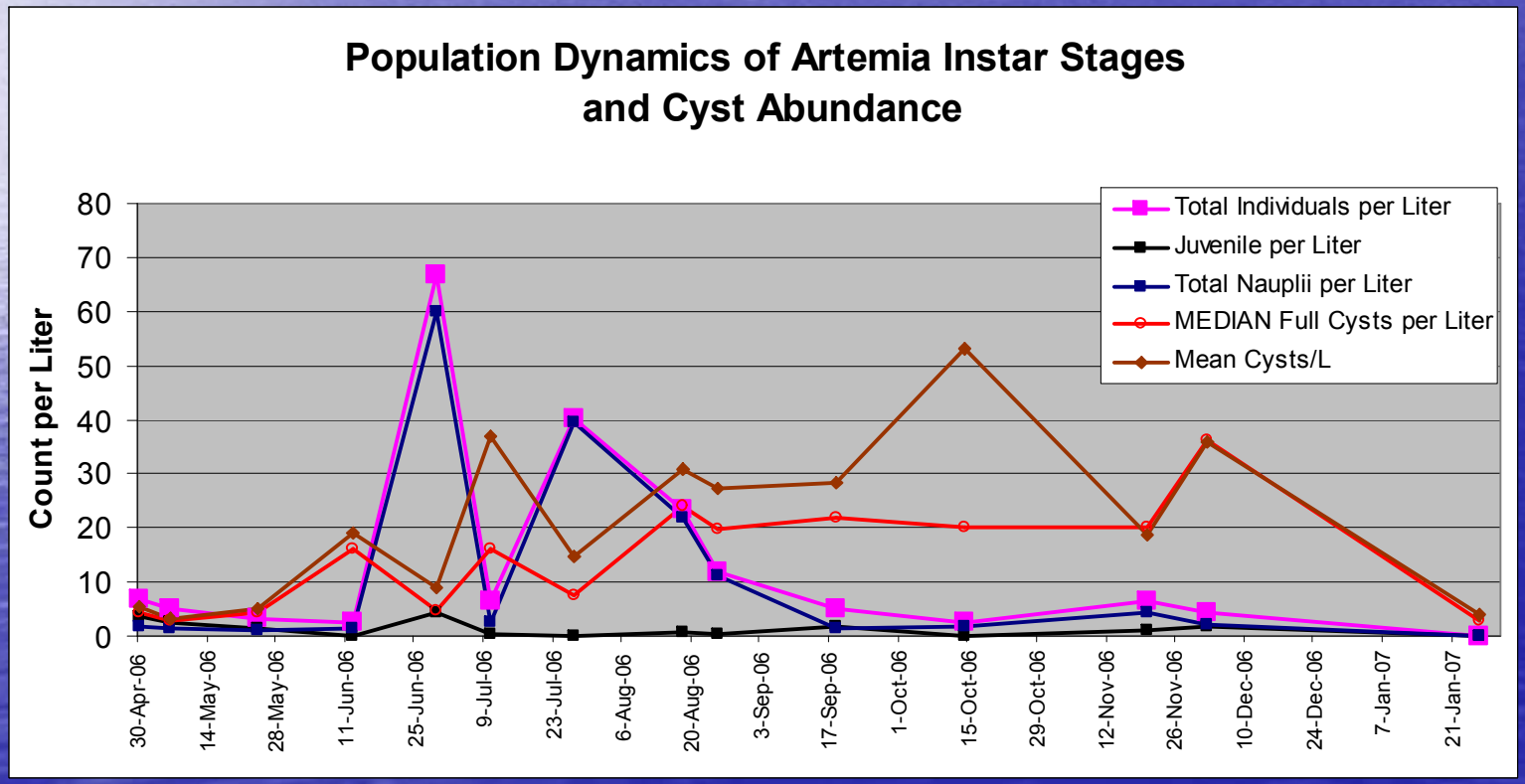
RESULTS
Population Dynamics



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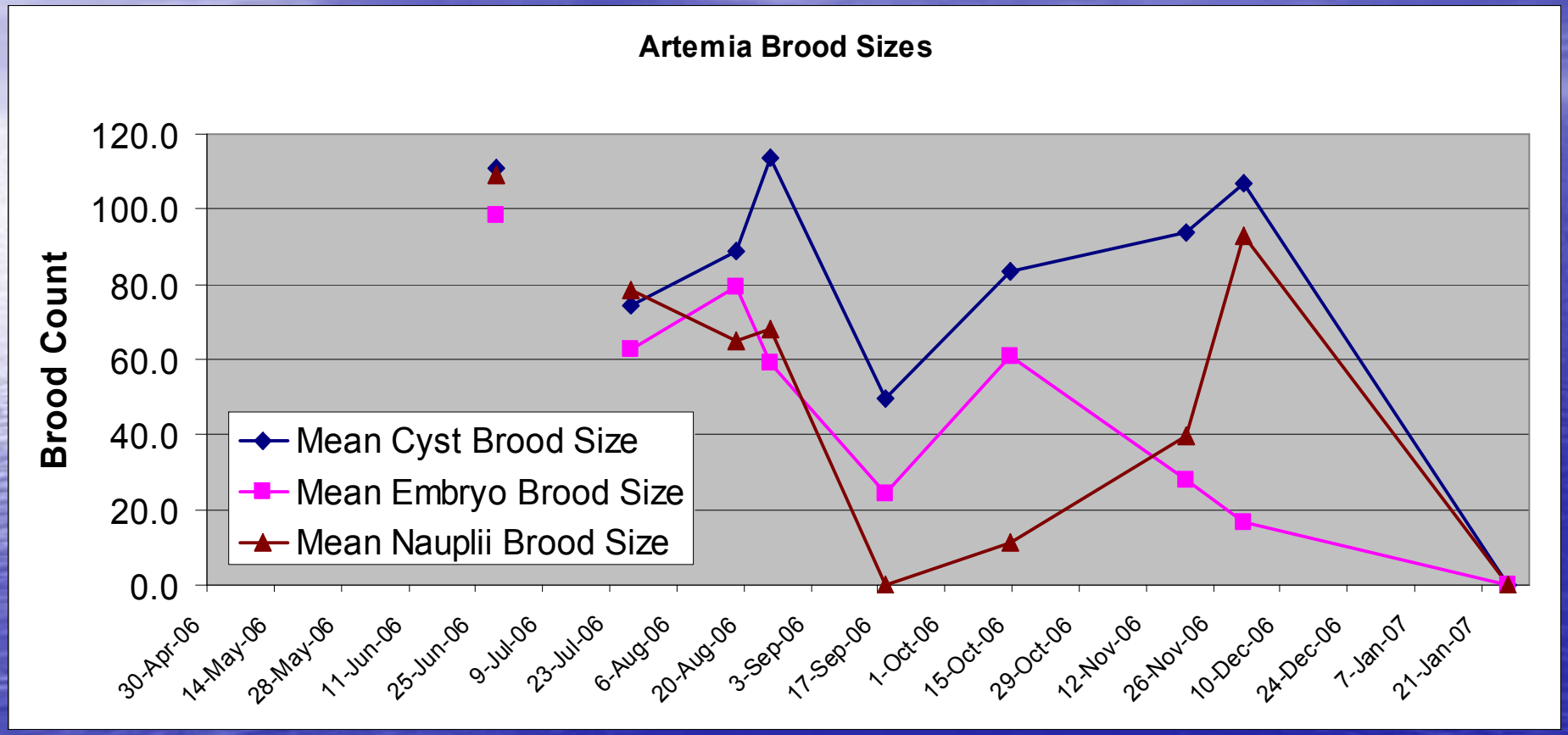
RESULTS
Artemia Reproduction



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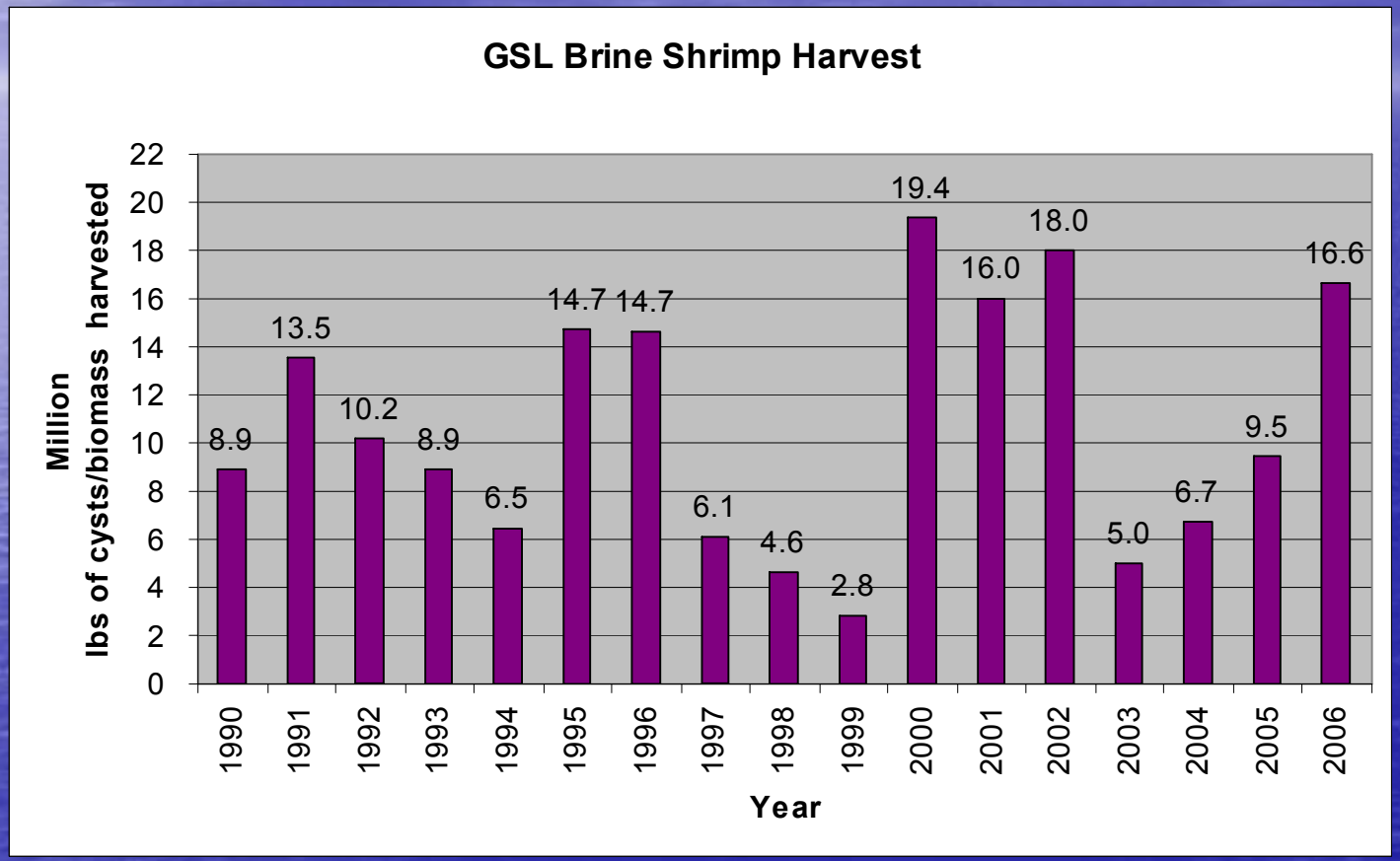
GSL Artemia Industry Harvest
2006-2007 Season = 3rd Highest Yield



Harvest total function of: Previous 4 year's yields and maximum fall cyst abundance.

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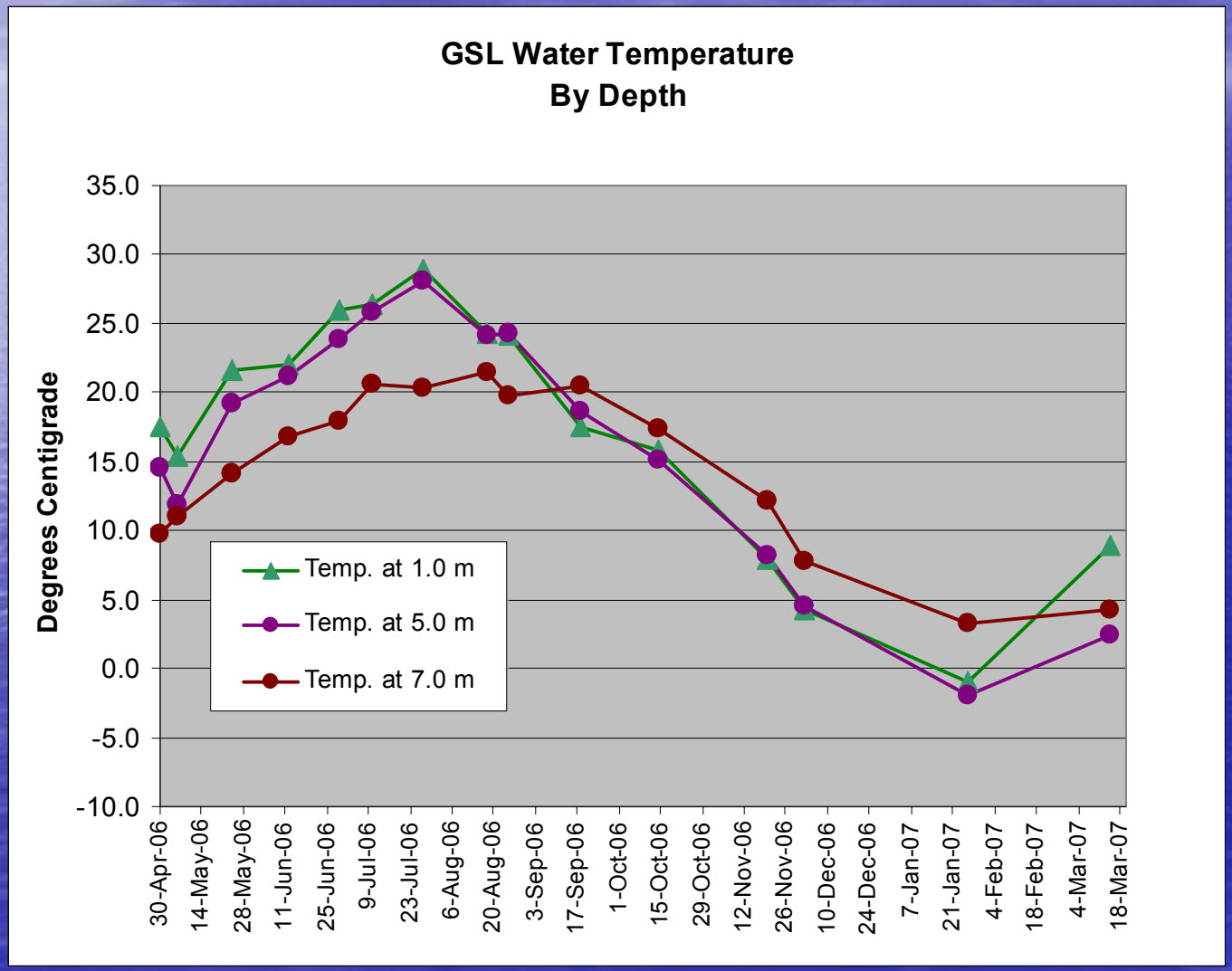
RESULTS
Water Temperature



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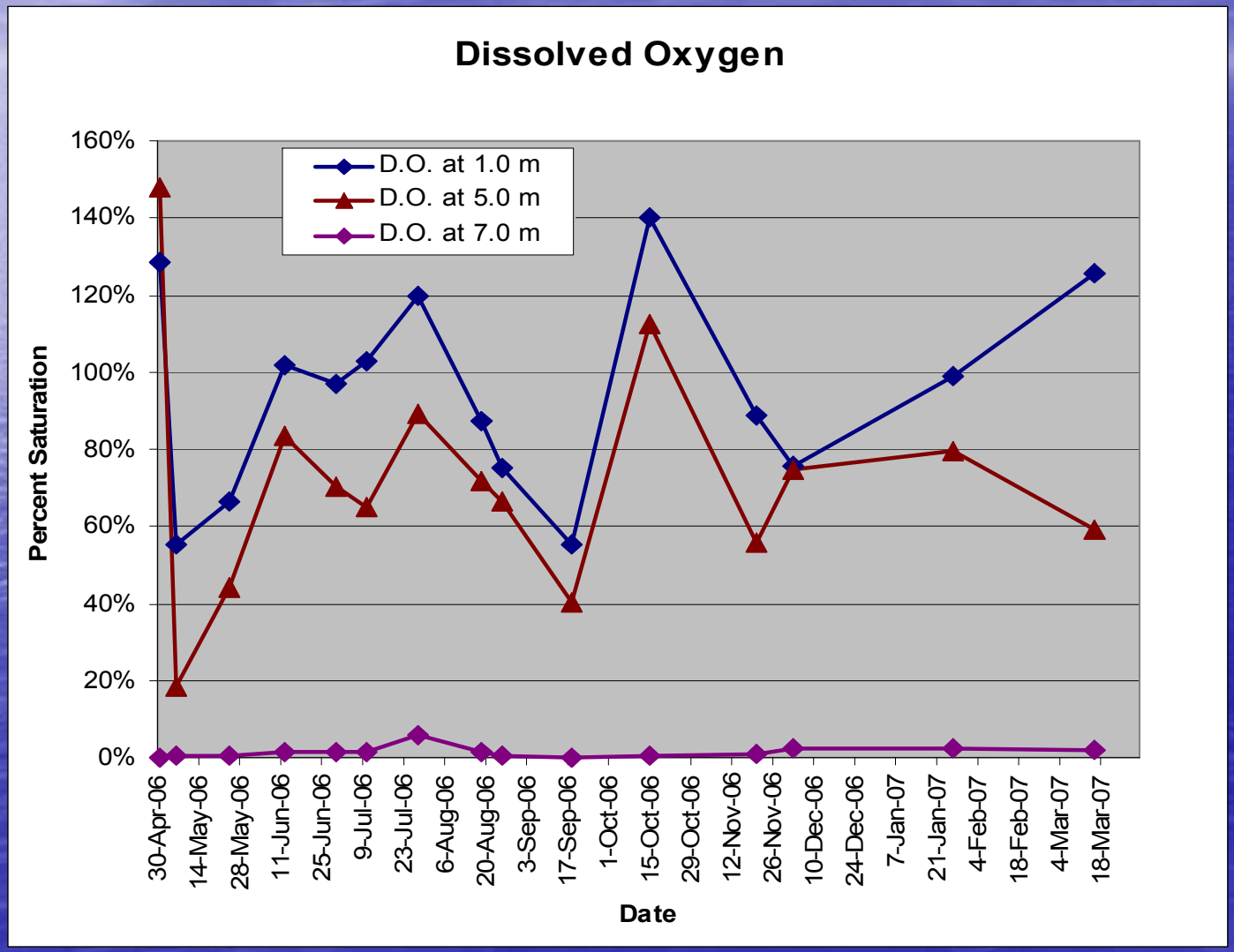
RESULTS
Dissolved Oxygen



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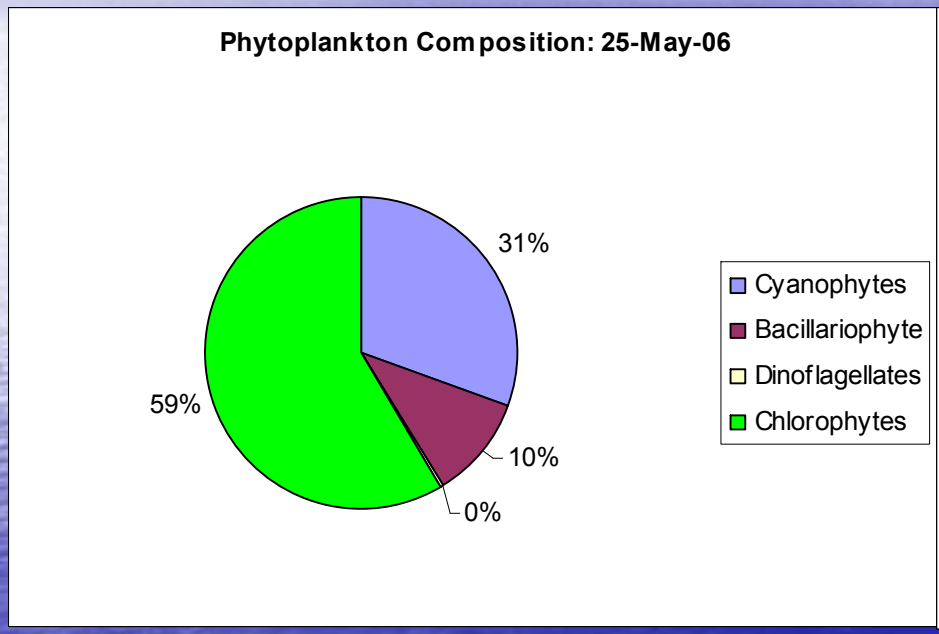
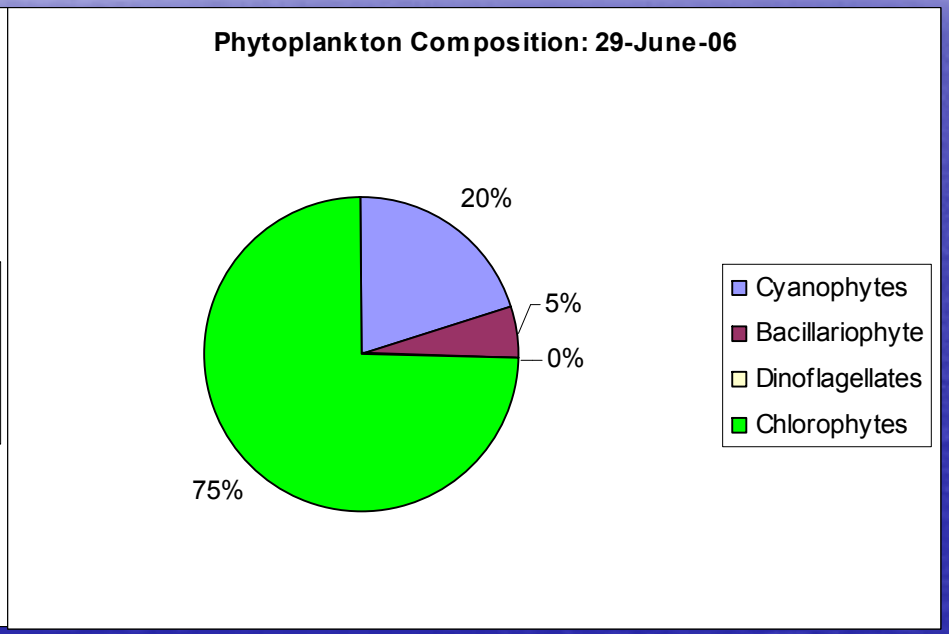
RESULTS
Relative Abundance of Phytoplankton





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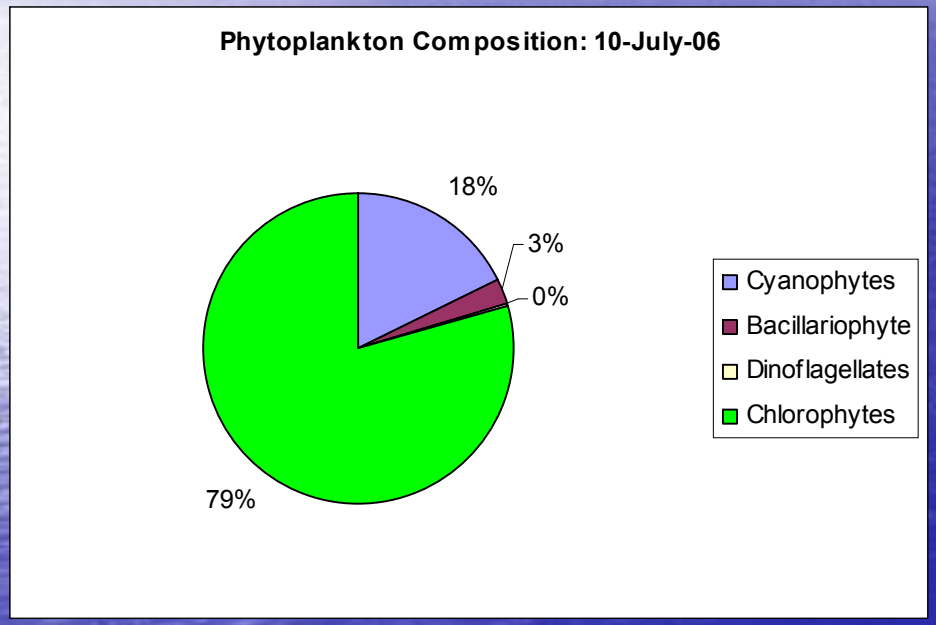
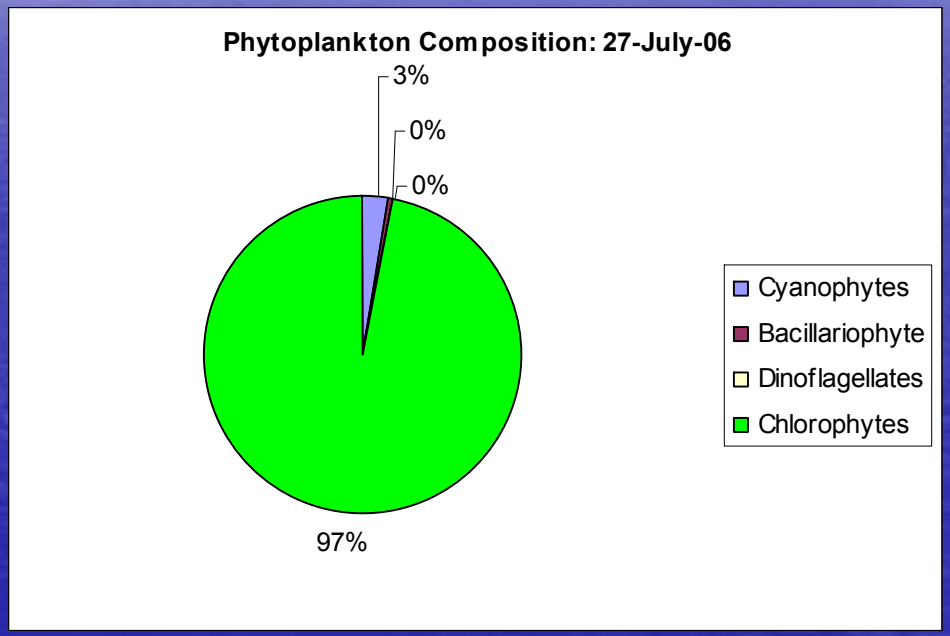
Relative Abundance of Phytoplankton





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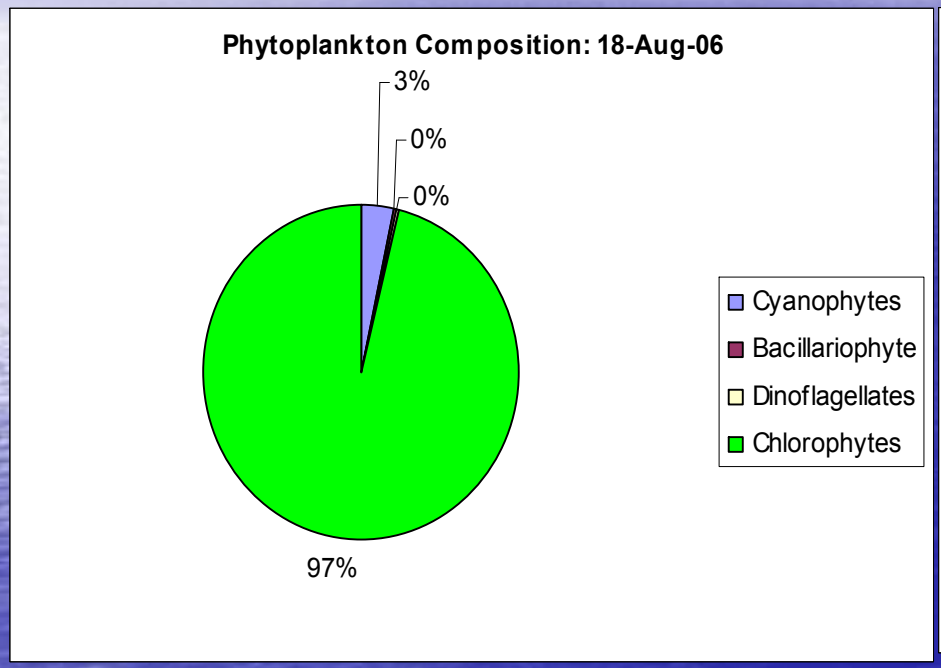
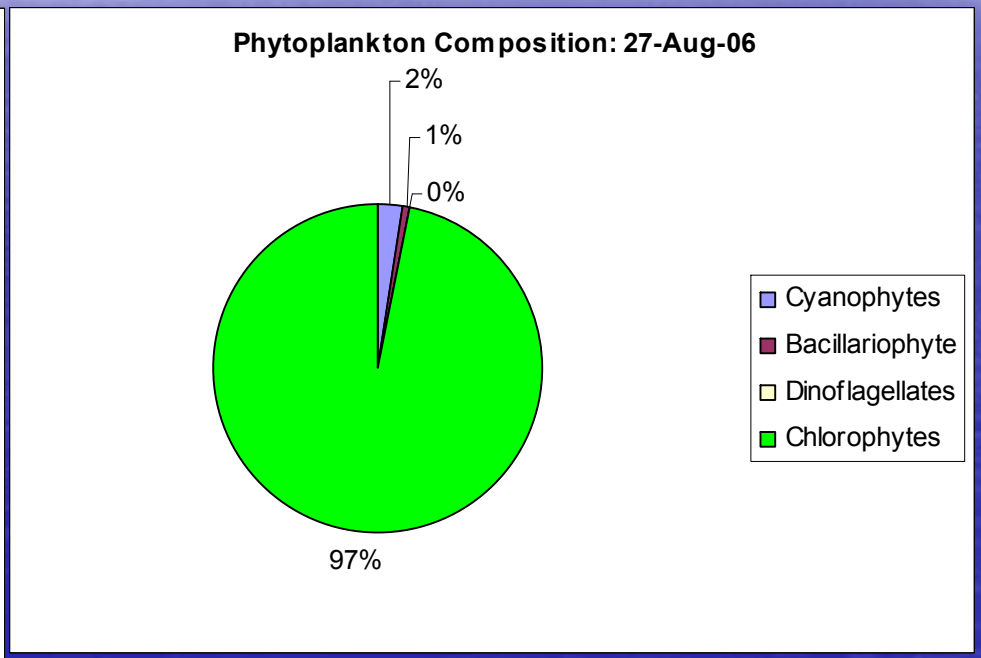
Relative Abundance of Phytoplankton





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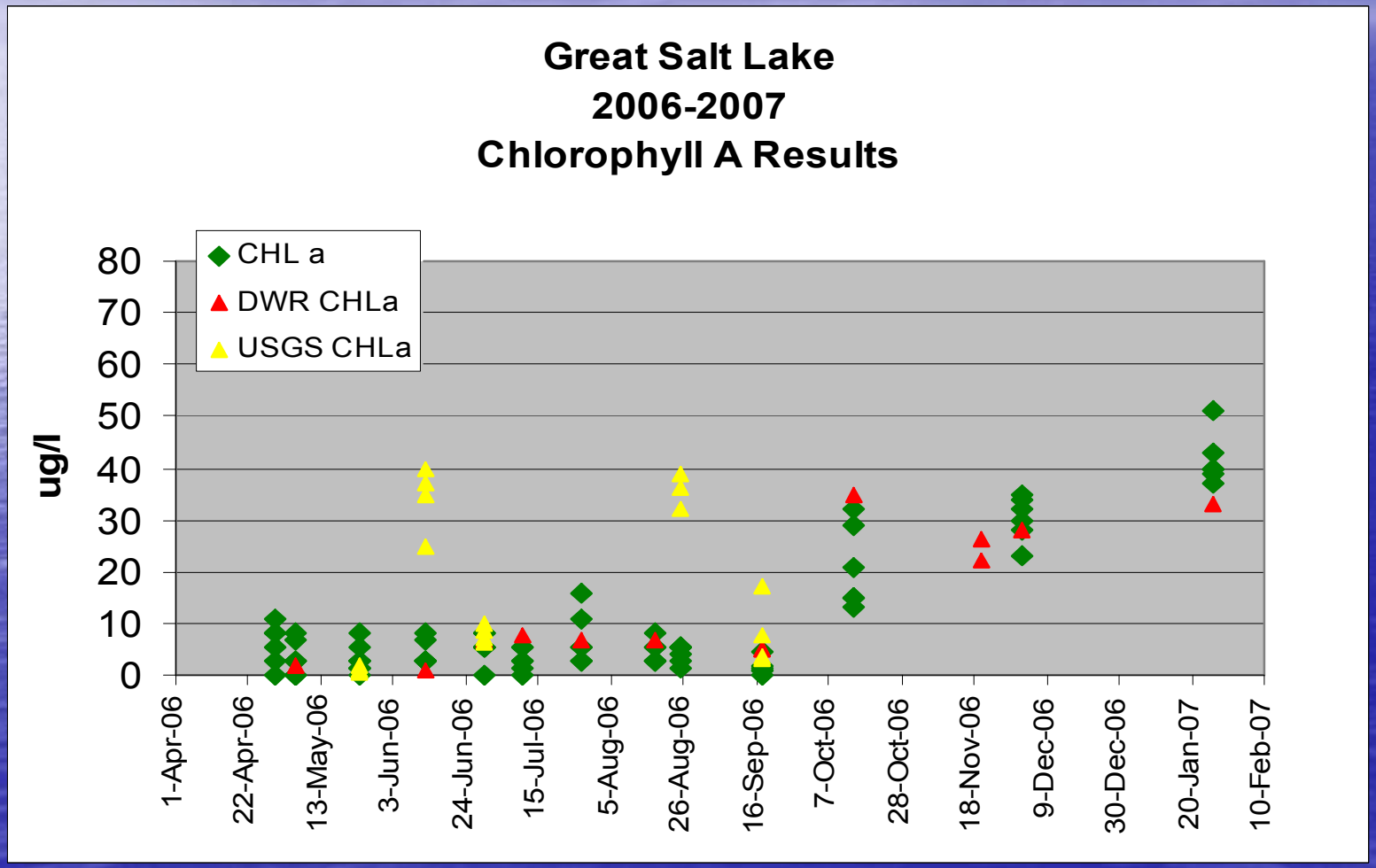
RESULTS
Chlorophyll A



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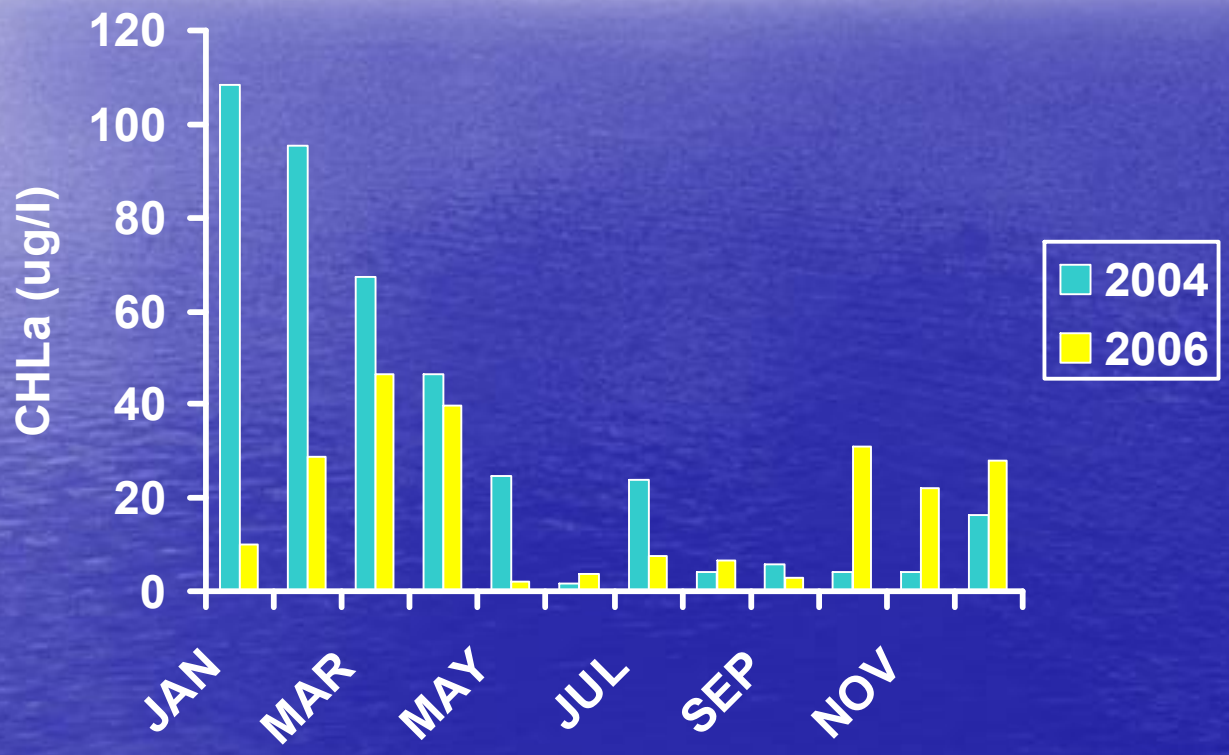
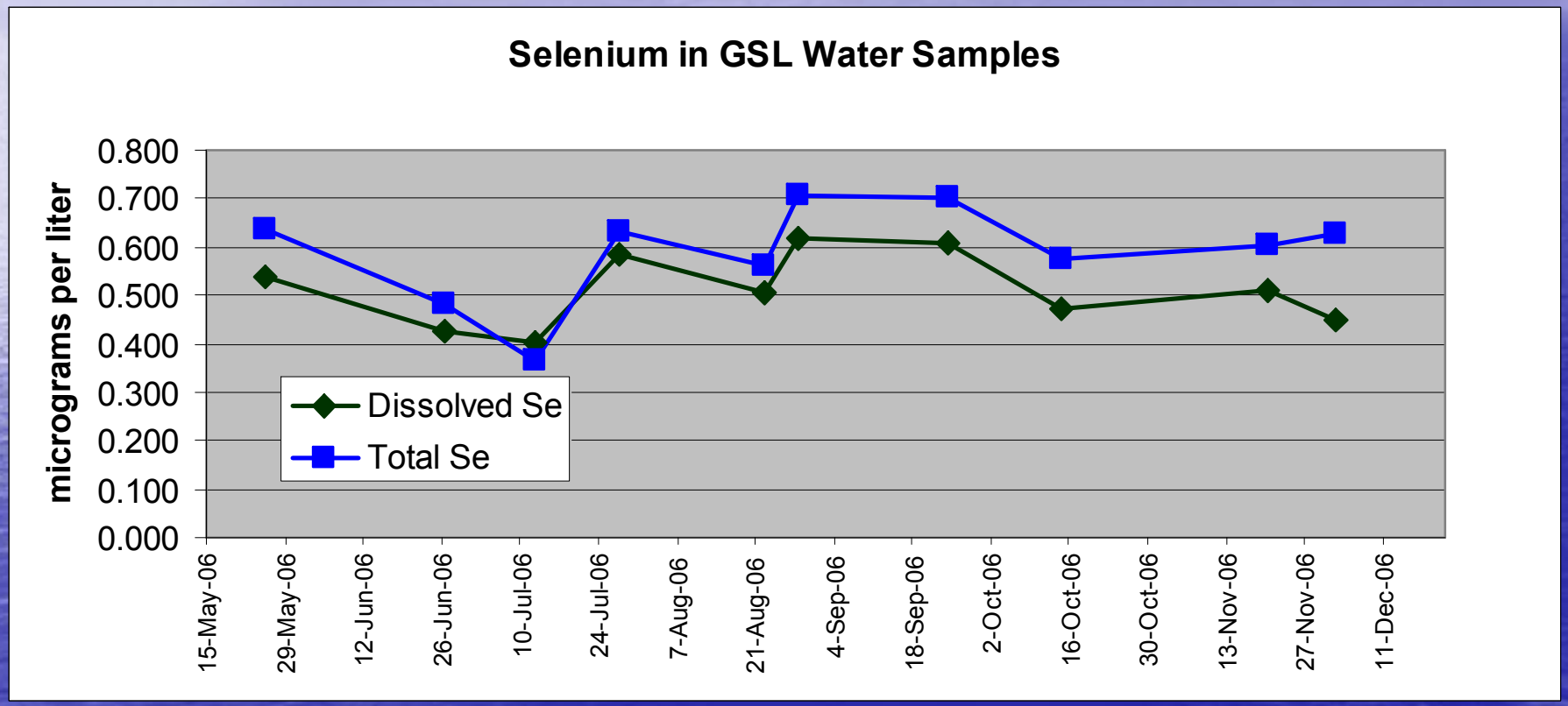
AN EXAMPLE OF HOW YEARS DIFFER (food)



Data from Dr. Gary Belovsky, Notre Dame

RESULTS:
Selenium in Water Samples



Dissolved mean: 0.511 ug/l

Total Se mean: 0.589 ug/l

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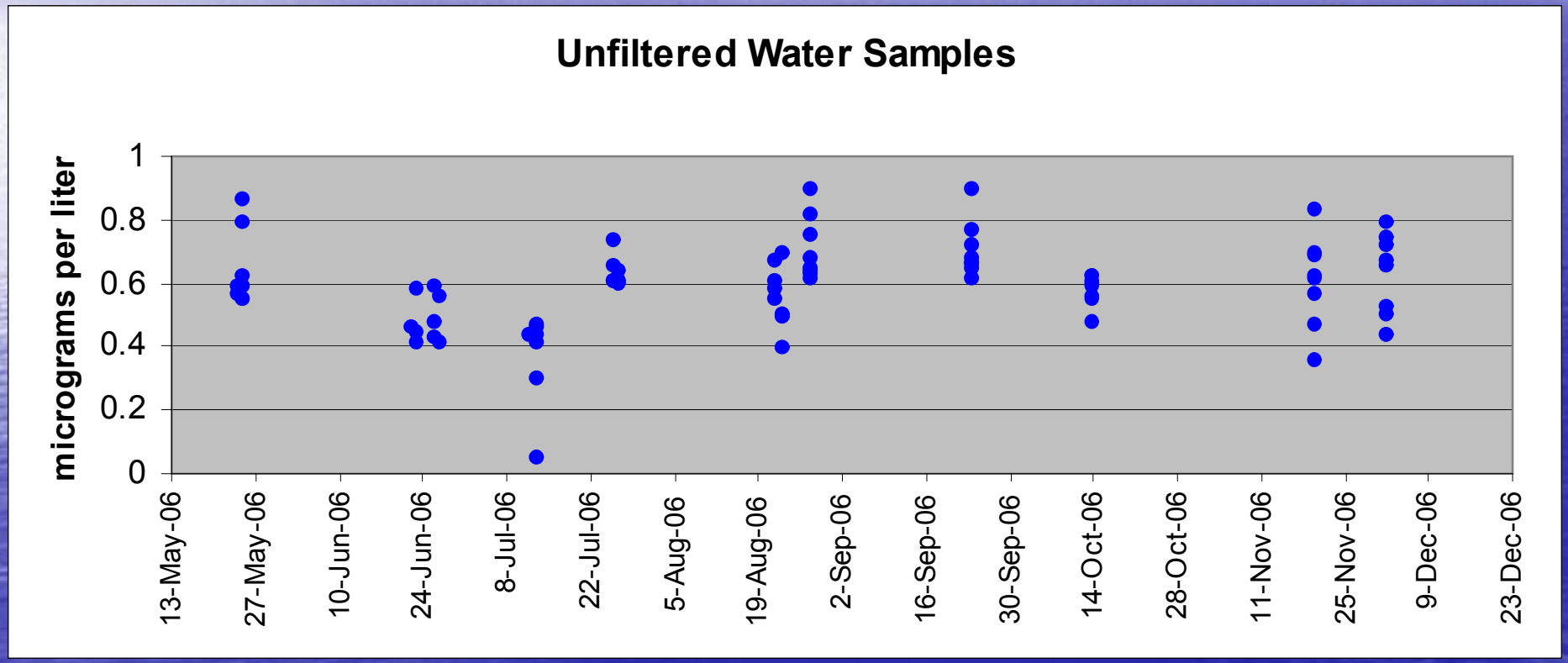
RESULTS:
Selenium in Water Samples



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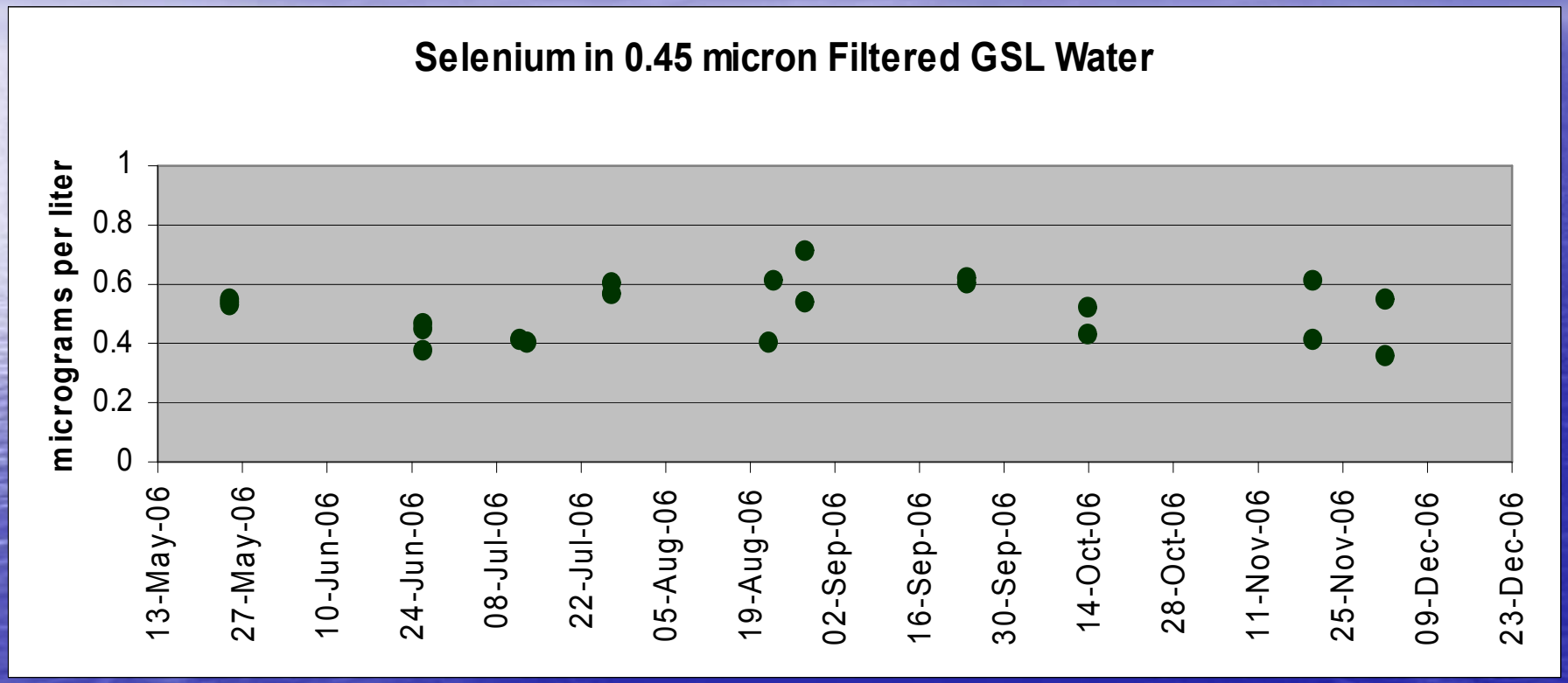
RESULTS: Dissolved Selenium in Water Samples



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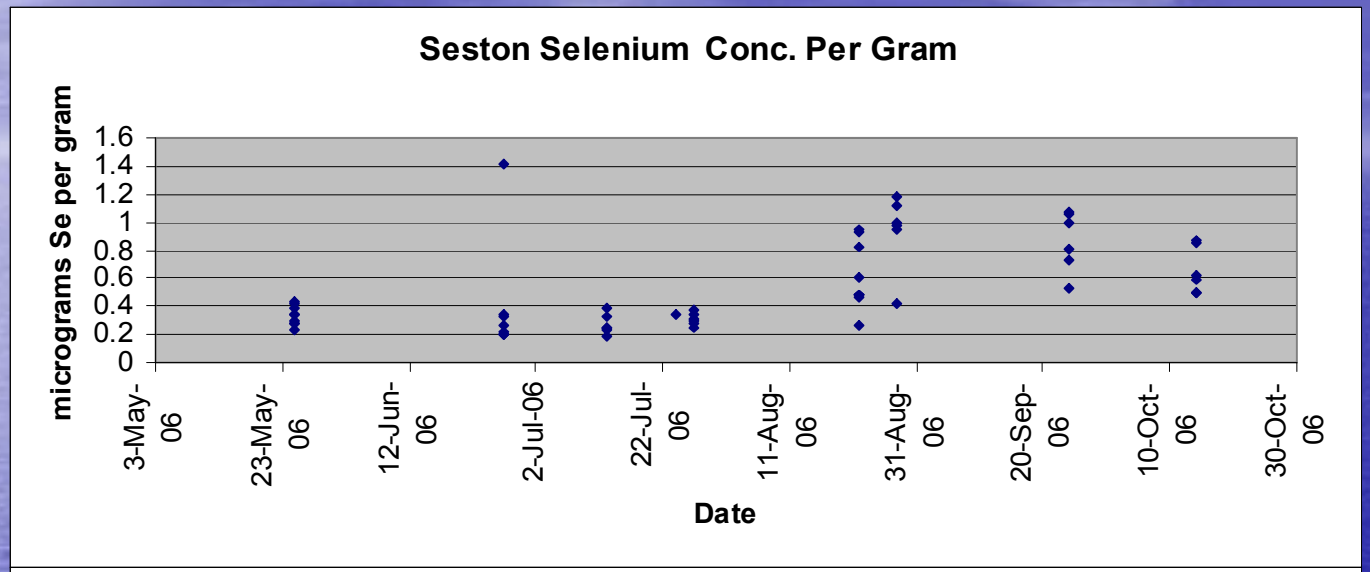
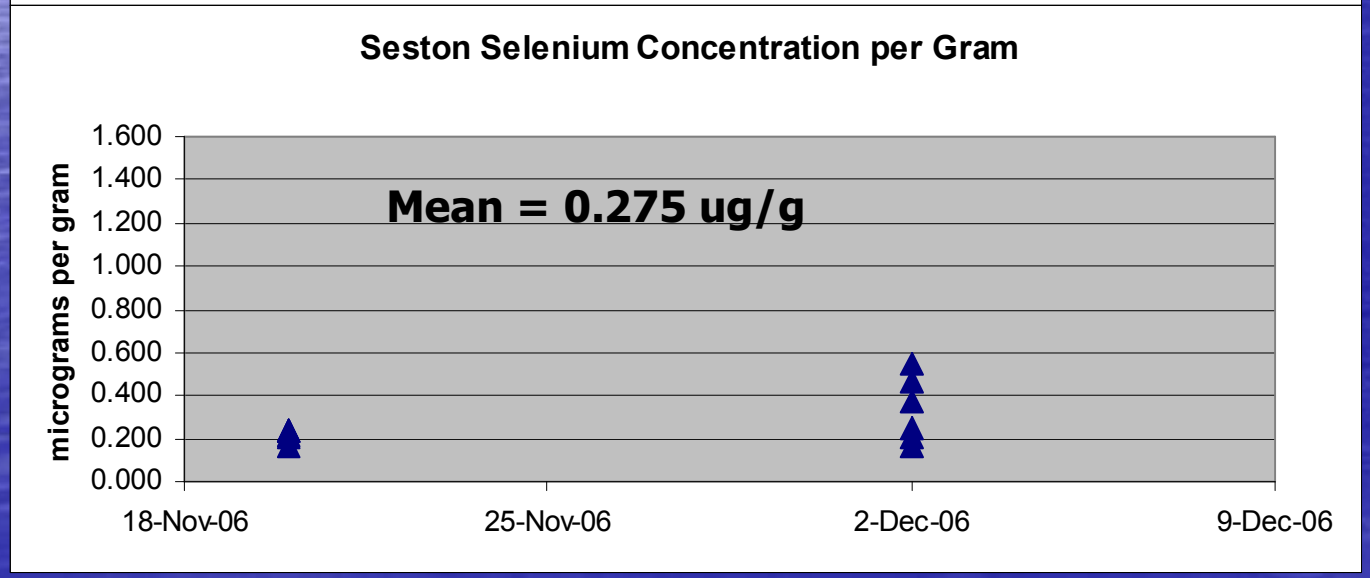
RESULTS: SELENIUM IN SESTON





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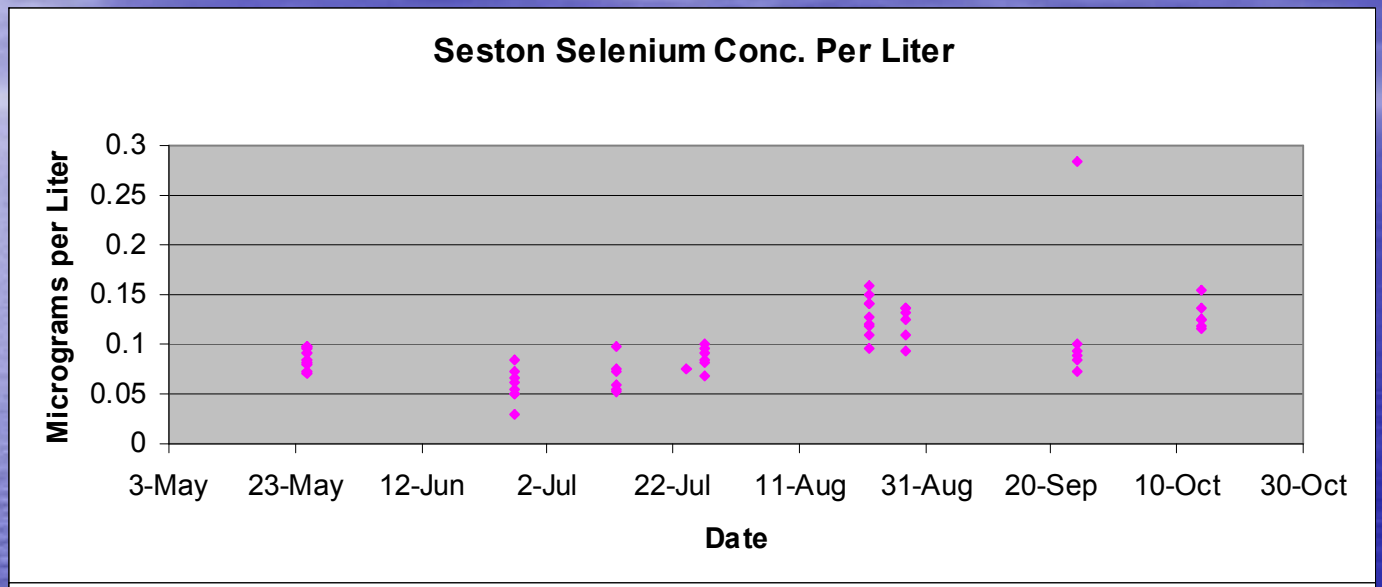
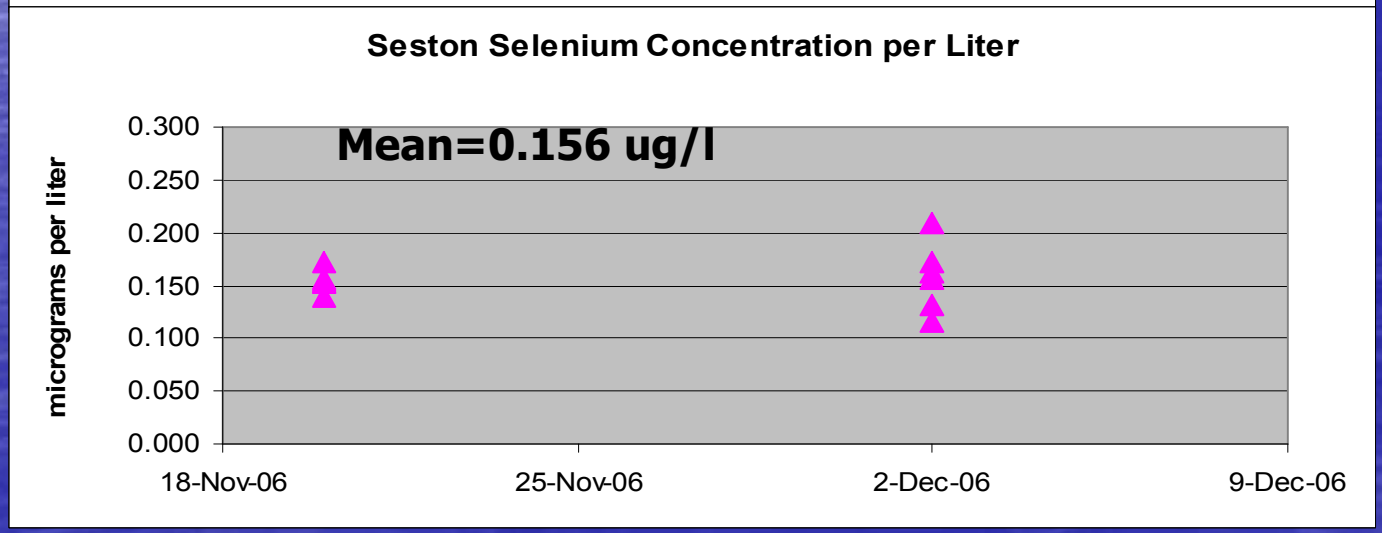
RESULTS
Selenium in Seston Samples





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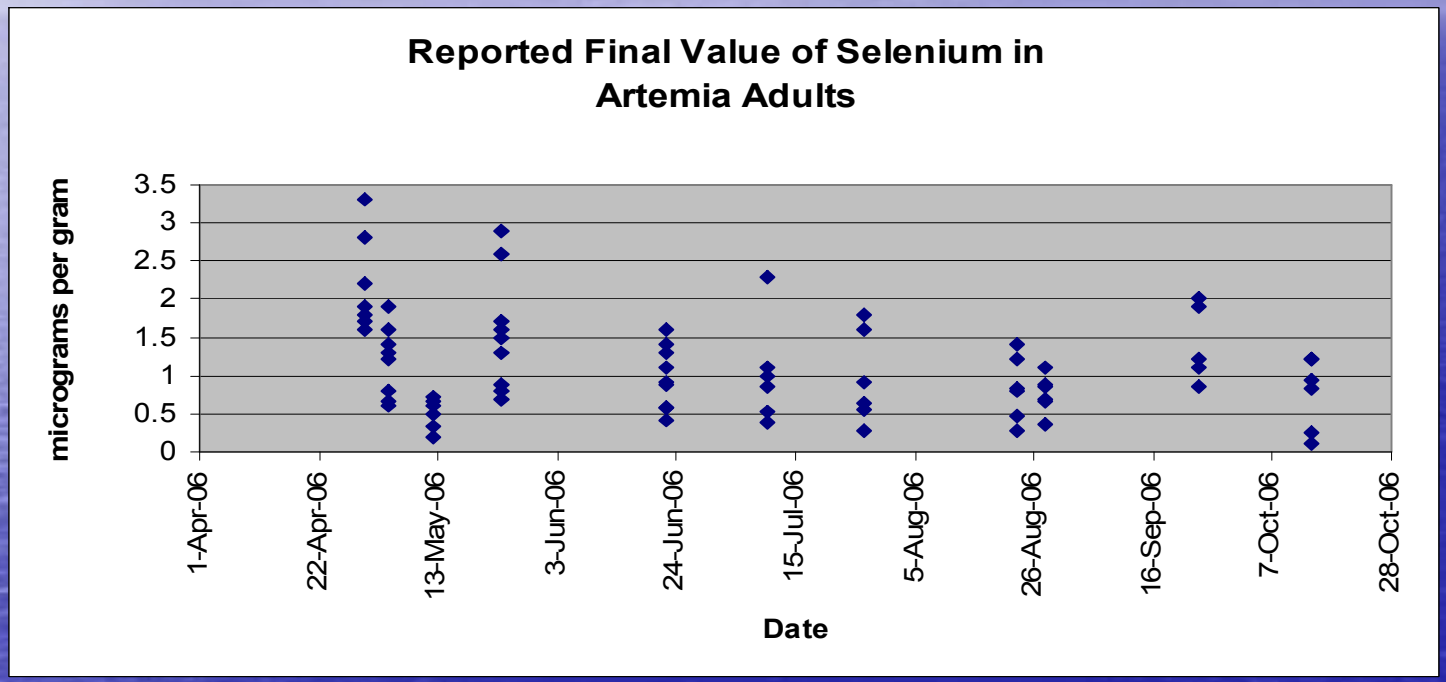
PRELIMINARY RESULTS:
Selenium in Adult Artemia



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Proposed Project Calendar
April 2007 to July 2007

Month	Workplan Sampling	Workplan # Sites	Sampling Program
April	1x	6	16
May	1x	6	17
May	1x	6	18
Jun	1x	6	19
Jun	1x	6	20
July	1x	6	21
TOTAL	**6**	**36**	

Purpose:

1) To collect samples during time of year that was not adequately assessed during 2006.

2) To sample through one complete population growth and collapse cycle.

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