**Aquatic Animal Supplementation Survey**

**Purpose:** The purpose of this survey is to determine the ranges of key supplements currently being fed to aquatic animals.No institution will be individually identified in any presentations or publications using this material. Previous (early 1990) survey data for marine mammal supplementation is included at the end of this survey for your information.

1. Institution name:
2. Contact person: Email Phone
3. Type of facility Public Display Research Stranding Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What food items to you feed to your aquatic animals? (please fill in approximate % of each food item)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Food items** | **Pinnipeds** | **Cetaceans** | **Otters** | **Penguins** | **Sharks** |
| Herring |  |  |  |  |  |
| Capelin |  |  |  |  |  |
| Smelt |  |  |  |  |  |
| Mackeral |  |  |  |  |  |
| Trout |  |  |  |  |  |
| Sardines |  |  |  |  |  |
| Salmon |  |  |  |  |  |
| Squid |  |  |  |  |  |
| Gel diets |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Marine Mammals**

1. Which vitamin supplements do you feed to your aquatic mammals? (circle supplement in table below or add one not listed)

\*NOTE: if you choose a column not filled in please fill in the amount of the requested nutrients per tablet

**Table 1. Amount of nutrients per tablet in supplements used for marine mammals**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Mazuri 5M26** | **Mazuri 5TLA** | **Mazuri****5TWX** | **Mazuri 584Y** | **Sea Tabs mammals** | **Generic plus E/B1** | **B1 and E only** | **Other** |
|  |  |  |  |  |  |  |  |  |
| Vitamin A (IU) | 7990 | 0 | 0 | 563 | 5500 |  |  |  |
| Vitamin B1 (mg) | 226 | 233 | 100 | 255 | 250 |  |  |  |
| Vitamin C (mg) | 280 | 280 | 125 | 0 | 75 |  |  |  |
| Vitamin D (IU) | 0 | 0 | 0 | 0 | 400 |  |  |  |
| Vitamin E (IU) | 259 | 259 | 125 | 368 | 350 |  |  |  |
| Iron (mg) | 0 | 0 | 0 | 0 | 0 |  |  |  |
| Lutein (mg) | 0 | 0 | 12.5 | 0 | 0 |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

1. Please check the box next to each species maintained at your facility and fill in the supplement dosing information.

Example: (**1 tab/5lb fish/day; 2 tabs/day for animals x to x kg body weight)**

\*NOTE: Add any additional marine mammals maintained at your facility to the list

**Table 2. Dosing information for aquatic mammals at your facility**

|  |  |  |
| --- | --- | --- |
|  | Species | Dosing information |
|  | Harbor seal |  |
|  | Grey seal |  |
|  | Harp seal |  |
|  | Hooded seal |  |
|  | Calif. Sea lion |  |
|  | Steller sea lion |  |
|  | Northern fur seal |  |
|  | Walrus |  |
|  | Sea otter |  |
|  | River otter |  |
|  | Polar bear |  |
|  | Bottlenose dolphin |  |
|  | White-sided dolphin |  |
|  | Beluga |  |
|  | Orca |  |
|  | Manatee |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Penguins and Sharks**

1. Which vitamin supplements do you feed? (check the box below the supplement that you use for your marine mammalsor add one not listed)

\*NOTE: if you choose a column not filled in please fill in the amount of the requested nutrients per tablet

**Table 3. Amount of nutrients per tablet in supplements used for penguins**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Mazuri 5M23** | **Mazuri 5M25** | **Mazuri****5TLC** | **Mazuri 584Y** | **Sea Tabs peng/shark** | **Generic****Plus E/B1** | **Thiamin-E per/ml**  | **Other** |
| **CHECK BOX**  |  |  |  |  |  |  |  |  |
| Vitamin A (IU) | 3995 | 835 | 0 | 563 | 1000 |  | 0 |  |
| Vitamin B1 (mg) | 110 | 20 | 23 | 255 | 50 |  | 50 |  |
| Vitamin C (mg) | 130 | 25 | 28 | 0 | 10 |  | 0 |  |
| Vitamin D (IU) | 0 | 0 | 0 | 0 | 20 |  | 0 |  |
| Vitamin E (IU) | 125 | 25 | 26 | 368 | 50 |  | 100 |  |
| Iron (mg) | 0 | 0 | 0 | 0 | 1.0 |  | 0 |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

**Table 4. Amount of nutrients per tablet in supplements used for sharks**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Mazuri 5M24** | **Mazuri 5MD8 (.19g)** | **Mazuri****5TLC (1.5g)** | **Sea Tabs peng/shark** | **Generic****Plus E/B1** | **Other** |
|  |  |  |  |  |  |  |
| Vitamin A (IU) | 7730 | 700 | 5500 | 1000 |  |  |
| Vitamin B1 (mg) | 83 | 10 | 83 | 50 |  |  |
| Vitamin C (mg) | 531 | 63 | 502 | 10 |  |  |
| Vitamin D (IU) | 690 | 87 | 690 | 20 |  |  |
| Vitamin E (IU) | 54 | 13 | 103 | 50 |  |  |
| Iron (mg) | 0 | 0.03 | 0.25 | 1.0 |  |  |
| iodine | 231 | 30 | 237 |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

1. Please describe dosing rates for penguins and sharks at your facility. Example (1 tablet per day or 1 tablet 2x per week, etc)

Penguins:

Sharks:

1. What species of penguin(s) is maintained at your facility?
2. Are your penguins maintained in fresh or salt water?
3. Do you feed salt supplements to your penguins?