The 2019 Duke Lemur Center life history data update

Sarah Zehr, Data Manager, Duke Lemur Center

All photos by David Haring

Figure 1. A few of the infants born at the DLC since the previous data release. Left to Right: *Daubentonia madagascariensis* 7279 Agatha, *Eulemur flavifrons* 7291 Gellar, *Propithecus coquereli* 7234 Hostilian, *Eulemur coronatus* 7247 Kek, *Lemur catta* 7240 Griselda, V*arecia rubra* 7298 Judith. A total of 130 animals have been added to the data. See below for more details.

Overview

This document contains details relating to the Duke Lemur Center (DLC) data update released in February 2019. The update contains the same file types released with the original manuscript in 2014 and includes additional data collected over the intervening years. For all variable definitions, methods, and usage notes, please refer to the original manuscript, which can be viewed here:
https://www.nature.com/articles/sdata201419

A description of this February 2019 data update and the ways in which it differs from the original data sets (released with the original manuscript, August 2014) are given below, followed by a table of errors that have been uncovered and corrected in the interim. Most of the errors reported are extremely minor (e.g. misspelling of an animal's name, duplicate weight entry) and should have no impact on prior analyses but are included in case they can help with clarification.

I have tried to include enough detail so that those who have used the 2014 data release can determine whether this update would improve sample sizes or add substantial information to prior projects, or whether any errors uncovered would be likely to impact previous results. As a result, this document will be excruciatingly boring to most readers. For that I apologize.

How to download data
You can download the updated datasets directly from the DLC website.

Download via the DLC website here:
https://lemur.duke.edu/duke-lemur-center-database/

How to cite

Zehr, SM, Roach RG, Haring D, Taylor J, Cameron FH, Yoder AD. Life history profiles for 27 strepsirrhine primate taxa generated using captive data from the Duke Lemur Center. *Sci. Data*1:140019 doi: 10.1038/sdata.2014.19 (2014).

If publishing results generated from downloaded data, please include file date (found in data file name) in citation

Contact

For more information or to report errors, please contact the DLC Data Manager: amanda.greene2@duke.edu).

What is in the February 2019 data update?

Like the original data release before it, this update contains the following data file types:

Reference and analytic versions of the DLC life history table. The tables contain summary statistics for 91 different variables across 27 different strepsirrhine species. The summary values have been recalculated using the updated raw datasets described below. It may be easier to look up specific data points using the reference version (27 species columns x 91 variable rows). The analytic version (91 variable columns x 27 species rows), though more difficult to read, can be imported directly into statistical software for analysis. The reference version is only available via the DLC website.

DLC Animal List raw data.
The DLC Animal List data file contains 32 variables for 3,749 individuals representing 27 taxa in all stages of life. These are the raw data used to calculate longevity and reproductive variables in the life history tables.

DLC Weight File raw data.
The DLC Weight data file contains 33 variables relating to 82,6109 weight measurements across 2270 individuals and 27 taxa. These are the raw data used to calculate body mass variables in the life history tables.

Species List and Data Paper
The species list (including taxonomic abbreviations) and original published paper (containing methods and usage notes) are still applicable to the updated data and remain available for use.

How does the February 2019 Update differ from the original 2014 data release?

Changes found in this update are described by category below.

Additional Animals

There are 130 animals in the February 2019 update that were not included in the 2014 data release. Numbers, by species, are as follows:

Species Code	Genus Species	N Added
CMED	*Cheirogaleus medius*	7
DMAD	*Daubentonia madagascariensis*	7
ECOL	*Eulemur collaris*	4
ECOR	*Eulemur coronatus*	7
EFLA	*Eulemur flavifrons*	14
EFUL	*Eulemur fulvus*	3
EMON	*Eulemur mongoz*	4
ERUF	*Eulemur rufus*	1
LCAT	*Lemur catta*	7
MMUR	*Microcebus murinus*	16
NPYG	*Nycticebus pygmaeus*	4
PCOQ	*Propithecus coquereli*	37
VRUB	*Varecia rubra*	12
VVV	*Varecia variegata variegata*	7
	TOTAL	**130**

Table 1. Animals added to the data, summarized by species.

Category: Taxonomic change. There are three animals included because of changes to standard taxonomy. Two of these (DLC_IDs = 5562, 5563) were formerly assigned to species *Eulemur mayottensis*, where sample size (2) was too small to be included in the 2014 data set. That species is now standardly accepted to be an isolated population of *Eulemur fulvus* (an included species) as proposed by Mittermeier *et al* (1994). The third (DLC_ID = 4566) was previously categorized as "unverified taxonomy" but further investigation into the pedigree reveals that the correct taxonomy is also *Eulemur fulvus*.

Category: Births. The update contains 88 new DLC births, 25 births at other institutions to DLC-owned animals, and 4 additional births at other institutions that occurred prior to 2014 but were previously unreported.

Category: Transfers in. There were 10 animals that were not previously part of our historic colony and transferred into the DLC colony from other institutions since the 2014 publication (DLC_IDs = 7194, 7245, 7285, 7236, 7271, 7218, 7219, 7261, 7272, 7287).

Other Taxonomic changes

In the 2014 release, there were 16 animals classified as *Eulemur* hybrids that were potentially not hybrids because at least one potential sire is of a species that matches the remainder of the animal's ancestry. Further investigation has verified that 8 of these are definite hybrids (DLC IDs = 5553, 5554,

5801, 5802, 5933, 5934, 6087, 6212). As in the original data release, the remaining 8 animals with unknown hybrid status (DLC IDs = 1574, 2513, 2550, 2551, 3527, 3561, 1553, 2566) are identifiable in the output because their taxonomic code (Eul) indicates a hybrid animal but their hybrid status is 'N' whereas status for known hybrids is 'Sp'.

Animals Removed.
There are 8 animals that were included in the 2014 data release that are not in the February 2019 update.

Category: Taxonomic change. All 8 animals are galagos that were previously identified as *Galago moholi* (a species included in the 2014 release) that have subsequently been found to be either *Galago senegalensis* (1 animal – DLC_ID = 1065), or *Galago sp.* hybrids (Gmoh x Gsen; 7 animals – DLC_IDs = 2020, 2021, 2043, 2044, 2062, 2096, 2097). *Galago sp.* hybrids and *Galago senegalensis* both have sample sizes too small to be included in this analysis (5 and 13 individuals respectively).

Mortality.
There are 186 additional dates of death reported in the February 2019 update that were not in the 2014 release. Most of these deaths (149) are of animals that were included (as living) in the 2014 release. The rest (37) are animals that have been added to the colony after the 2014 release and died (e.g. stillborn infant).

Of all deaths, 167 have occurred since the 2014 release at the DLC or another institution where the animal resided. The additional 19 are animals that died at other institutions prior to the 2014 release but were previously unreported.

Last verified living age of animals with unknown status.
There are 84 animals whose last verified age has been updated since the 2014 release, which can affect censored survival analyses. When a DLC animal is donated to another institution, our records no longer automatically update with living status. However, records for all animals from the historic DLC population can be accessed in the Zoological Information Management System (ZIMS). If the holding institution has entered information that verifies the animal was living on a particular date (live animal weights, animal transfers), it can be used to recalculate the age that the animal was last known to be alive. A search for more recent dates of verified "live" status has resulted in an increase in "last verified age" in these 84 cases. If the search found an animal reclassified as dead, it would be counted in the Mortality section described above.

There are 44 living animals that have been donated to other institutions since the 2014 release, so their age is now reflected as "last verified age" as documented above rather than "age of living" as in the previous release.

Parentage

Category: DLC parents. DLC dam IDs have been added for 19 animals, and DLC sire IDs have been added for 15 animals. These are data that were missing in the previous release.

Category: Parents at other institutions. In the 2014 data release, parents that were not part of the DLC colony did not show up in the output so as to avoid confusion in cases where the local ID number at the other institution matched a local ID number in the DLC colony (which would have subsequently pulled up incorrect associated information for that parent). In this update, non-DLC parent ID numbers are included and contain an "oi_" prefix to indicate the ID number is that of an "other institution". This may allow additional patterns of relatedness to be uncovered. Data for 120 dams and 110 sires at other institutions have been added.

Studbook Numbers

Not all studbook numbers have been identified and entered into the animal's individual record. More have been added in this release, but there are still many that are missing. Approximately 23% of studbook numbers were missing in the 2014 release, compared to 20% in this update. The vast majority of missing values are for galagos (88% are *Otolemur garnettii* or *Galago moholi*) and will be updated once the next galago studbook is published.

Expected Gestation Times

An analysis of the dates of observed breeding behaviors (copulations and/or sperm plugs) and dates of subsequent infant birth resulted in an adjustment of values used for expected gestation times, ranges, and calculation of estimated dates of conception for 10 species.

Species	Previous Values			Updated Values		
	Low	High	Calculator	Low	High	Calculator
Cheirogaleus medius	60	64	60	59	65	62
Daubentonia madagascariensis	157	172	165	.	.	164
Eulemur collaris	120	128	120	.	126	123
Eulemur coronatus	120	126	120	.	.	124
Eulemur flavifrons	120	129	120	124	130	128
Eulemur mongoz	120	128	120	123	128	127
Lemur catta	130	136	130	.	142	138
Microcebus murinus	57	63	60	60	64	63
Varecia rubra	98	102	98	.	107	103
Varecia variegata variegata	98	102	98	.	107	104

Table 2. **Summary of changes to gestation times. Low:** low end of observed range. **High:** high end of observed range. **Calculator:** the single number most likely to generate the most accurate gestation time (based on the frequency and distribution of values within the range); used to calculate estimated date of conception (infant DOB – calculator= estimated DOC). A "." under Low or High updated values means there was no change from previous value. Previous values were used in the 2014 data release. Analysis and adjustments occurred in February 2016, and updated values are reflected in this 2019 update.

Weights

Category: new weights. There are 82,609 weights in the updated file, including 17,201 new weights that were not in the 2014 release. The majority of these (17,133) are weights that have been obtained since the original publication, with a few additional entries (68) extracted from older records or edited.

The table below shows a breakdown of newly available weights by species and age class. This should help users of the earlier release determine if these updated data will potentially contribute to ongoing projects. Definitions of age classes can be found in the original manuscript.

Species Code	Genus species	All New Weights	Infant/Juvenile	Young Adult	Adult
CMED	*Cheirogaleus medius*	2,571 (25)	156 (7)	154 (9)	2,261 (25)
DMAD	*Daubentonia madagascariensis*	743 (19)	85 (4)	144 (5)	513 (13)
EALB	*Eulemur albifrons*	13 (1)			13 (1)
ECOL	*Eulemur collaris*	298 (8)	43 (2)	53 (4)	202 (6)
ECOR	*Eulemur coronatus*	581 (21)	134 (9)	107 (9)	340 (18)
EFLA	*Eulemur flavifrons*	752 (30)	290 (16)	80 (12)	382 (17)
EFUL	*Eulemur fulvus*	3 (1)	1 (1)		2 (1)
EMAC	*Eulemur macaco*	189 (3)			189 (3)
EMON	*Eulemur mongoz*	530 (20)	121 (7)	64 (7)	345 (16)
ERUB	*Eulemur rubriventer*	194 (6)			194 (6)
ERUF	*Eulemur rufus*	86 (2)			86 (2)
ESAN	*Eulemur sanfordi*	9 (1)			9 (1)
EUL	*Eulemur hybrid*	80 (4)			80 (4)
HGG	*Hapalemur griseus griseus*	216 (3)			216 (3)
LCAT	*Lemur catta*	1,606 (44)	198 (11)	130 (14)	1,278 (42)
LTAR	*Loris tardigradus*	15 (1)			15 (1)
MMUR	*Microcebus murinus*	5,362 (65)	310 (14)	142 (15)	4,910 (61)
NCOU	*Nycticebus coucang*	58 (1)			58 (1)
NPYG	*Nycticebus pygmaeus*	356 (11)	49 (2)	13 (3)	294 (7)
OGG	*Otolemur garnettii garnettii*	43 (3)	41 (3)		
PCOQ	*Propithecus coquereli*	2,218 (52)	767 (27)	413 (22)	1,038 (30)
VRUB	*Varecia rubra*	789 (25)	206 (9)	85 (9)	498 (18)
VVV	*Varecia variegata variegata*	489 (17)	105 (8)	89 (7)	295 (12)
	TOTAL	**17,201 (363)**	**2,508 (120)**	**1,475 (116)**	**13,218 (288)**

Table 3. Summary of new weights included in this release. In each category, the first number is the number of weights and the number in parentheses is the total number of individuals represented in that category.

Category: weights removed. There were 251 weights in the 2014 release that have been removed from this update. In 131 cases there were two entries for the same weight on the same date and the duplicate entries were removed. In 120 cases, weights that were entered into multiple source files on the same date did not match exactly; the correct weights were identified using original hand-written weight files and the erroneous entries deleted. An additional 26 entries contained typos and were

corrected. Details of the weights that were removed or edited can be found in the corrections table (below).

Weight note: in a few cases, there are multiple different weights for the same animal on the same day. This can happen for two reasons. First, an animal under medical care, particularly an infant, may be weighted multiple times in a single day to monitor growth/health. Second, there are times when an animal is weighed by both the husbandry and veterinary staff in a single day; these weights may change slightly over the course of the day and if they do not match exactly, both will show up in the data. This was also the case in the original 2014 data release but it was not specifically highlighted. All weights are left in the file in case those potential variations are of interest to any researchers.

Corrections

There have been 398 errors uncovered and corrected since the 2014 data release. The vast majority of these are minor and should have no discernable effect on studies conducted with the 2014 data. Most (283) involve weight data as described above. There were another 45 very minor updates in the Name variable, where a name that was assigned to a second individual of a species is differentiated from the first by adding "II" to the name (they have unique DLC_ID#s, but we prefer name to be unique as well). This is standard practice but had not been followed through for some individuals in the historic colony. The table contains details of the corrections to taxonomy, parent IDs, gestation length, and hybrid status described above. Finally, specifics of a few changes to DOB, DOD, studbook number, and sex are described.

Table of corrections. Please see original manuscript for all variable definitions and abbreviations. If taxonomy or name has been changed, the Species Code and Name variables in the table reflect the new (correct) information.

Species Code	DLC_ID	Name	Variable	2014 (incorrect) entry	2019 (correct) entry	change/error type
MMUR	1869	Badian	dam	1813	1830	error in entry
MMUR	1870	Checkerberry	dam	1813	1830	error in entry
MMUR	1871	Malee	dam	1813	1830	error in entry
EUL	5837	Ucumari	dam	5598	5611	error in entry
GMOH	2088	Tupelo-A	DOB	07/19/1984	07/15/1984	error in entry
GMOH	3077	Beech-B	DOB	05/15/1986	05/12/1986	error in entry
EFUL	5824	Brunhild	DOB	1/1/1982 est	04/25/1982	updated data
VRUB	6965	Molly	DOB	05/09/2009	05/05/2009	error in entry
MMUR	7017	Sandalwood	DOB	07/18/1996	07/12/1996	error in entry
MMUR	7018	Dog Rose	DOB	07/18/1996	07/12/1996	error in entry
OGG	8031	Tigereye-A	DOB	12/03/1992	11/29/1992	error in entry
OGG	0443	Mwajuma-E	DOD	07/08/1980	07/09/1980	error in entry
CMED	636	Thaddeus	DOD	06/18/1985	06/18/1995	error in entry
GMOH	1079	Holly	DOD	08/24/1988	08/23/1988	error in entry
GMOH	1087	Mimosa	DOD	DOD=06/26/1989	Sale=06/26/1989	error in entry
HGG	1320	Beclouded-A	DOD	02/04/1985	02/05/1985	error in entry
OGG	1413	Tuff	DOD	06/08/1993	06/09/1993	error in entry
MMUR	1832	Bitters	DOD	05/06/1996	05/07/1996	error in entry
GMOH	2046	Mimosa-C	DOD	06/21/1983	06/22/1983	error in entry

GMOH	2047	Mimosa-D	DOD	06/21/1983	06/22/1983	error in entry
ECOL	2540	Nadia	DOD	07/27/1995	09/27/1995	error in entry
GMOH	3013	Cottonwood-B	DOD	01/27/1987	01/27/1985	error in entry
GMOH	3158	Sugarpine	DOD	01/26/2002	03/26/2002	error in entry
VRUB	5587	Cynthia	DOD	10/08/2012	04/28/2016	updated data
EMAC	5707	Zephyrus	DOD	11/28/1996	11/29/1996	error in entry
VVV	5927	Thuban	DOD	04/11/2001	03/20/2001	error in entry
VAR	5992	Pavonis	DOD	LKT=12/07/1989	DOD=12/07/1989	error in entry
PCOQ	6109	Octavia	DOD	01/08/1994	01/11/1994	error in entry
EFLA	6360	Brando	DOD	04/10/1996	04/21/1996	error in entry
ECOR	6650	Khonshu	DOD	05/28/1993	06/28/1993	error in entry
LCAT	6811	Demonax	DOD	07/28/2007	living	error in entry
OGG	8031	Tigereye-A	DOD	12/03/1992	11/29/1992	error in entry
ECOR	.	.	gestation	calc 120, range 120-126	calc 124, range 120-128	updated data
ECOL	.	.	gestation	calc 120, range 120-128	calc 123, range 120-126	updated data
EMON	.	.	gestation	calc 120, range 120-128	calc 127, range 123-128	updated data
EMON	.	.	gestation	calc 120, range 120-128	calc 127, range 123-128	updated data
EFLA	.	.	gestation	calc 120, range 120-129	calc 128, range 124-130	updated data
LCAT	.	.	gestation	calc 130, range 130-136	calc 138, range 130-142	updated data
DMAD	.	.	gestation	calc 165, range 157-172	calc 164, range 157-172	updated data
MMUR	.	.	gestation	calc 60, range 57-63	calc 63, range 60-64	updated data
CMED	.	.	gestation	calc 60, range 60-64	calc 62, range 59-65	updated data
VRUB	.	.	gestation	calc 98, range 98-102	calc 103, range 98-107	updated data
VVV	.	.	gestation	calc 98, range 98-102	calc 104, range 98-107	updated data
EUL	5553	Bathsheba-K	hybrid	N	Sp	reclassification
EUL	5554	Hepzibah	hybrid	N	Sp	reclassification
EUL	5801	Asa	hybrid	N	Sp	reclassification
EUL	5802	Azubah	hybrid	N	Sp	reclassification
EUL	5933	unk	hybrid	N	Sp	reclassification
EUL	5934	unk	hybrid	N	Sp	reclassification
EUL	6087	unk	hybrid	N	Sp	reclassification
EUL	6212	Belle	hybrid	N	Sp	reclassification
ERUF	0043	Lisa Della-C	name	Lisa-A	Lisa Della-A	error in entry
CMED	677	Rhoda-A	name	Roda-A	Rhoda-A	error in entry
HGG	1308	Bewitched-B	name	Bewitched-A	Bewitched-B	error in entry
OGG	1418	Pyrite II	name	Pyrite	Pyrite II	2nd use of name
OGG	1425	Jade II	name	Jade	Jade II	2nd use of name
OGG	1463	Woody II	name	Woody	Woody II	2nd use of name
OGG	1477	Alum II	name	Alum	Alum II	2nd use of name
CMED	1623	Tabitha II	name	Tabitha	Tabitha II	2nd use of name
GMOH	2046	Mimosa-C	name	Momosa-C	Mimosa-C	error in entry
GMOH	2047	Mimosa-D	name	Momosa-D	Mimosa-D	error in entry
EUL	2528	Scarlett II-A	name	Scarlett II-C	Scarlett II-A	error in entry
EMON	2723	Nyama	name	Nyoma	Nyama	error in entry
ERUF	3537	Lisa Della-C	name	Lisa-B	Lisa Della-B	error in entry
ERUF	4578	Lisa Della-C	name	Lisa-C	Lisa Della-C	error in entry
VVV	5603	Babel-B	name	Babel-A	Babel-B	error in entry
ERUF	5886	Ruff II	name	Ruff	Ruff II	2nd use of name
EUL	5891	Cecilia-A	name	Cecelia-A	Cecilia-A	error in entry
ERUF	5975	Rusty II	name	Rusty	Rusty II	2nd use of name
EMAC	6089	Athena II	name	Athena	Athena II	2nd use of name
ERUF	6281	Red Lake-A	name	Redlake-A	Red Lake-A	error in entry
ECOR	6506	Isis II-A	name	Isis-A	Isis II-A	error in entry
ECOR	6599	Isis II-C	name	Isis-C	Isis II-C	error in entry

ERUF	6615	Cardinal II	name	Cardinal	Cardinal II	2nd use of name
LCAT	6656	Anactoria II	name	Anactoria	Anactoria II	2nd use of name
LCAT	6665	Pantores II	name	Pantores	Pantores II	2nd use of name
VVV	6671	Praesepe-E	name	Praeseppe-E	Praesepe-E	error in entry
ERUB	6677	Dido II-A	name	Dido-A	Dido II-A	error in entry
VVV	6682	Praesepe-D	name	Praeseppe-D	Praesepe-D	error in entry
LCAT	6706	Pharax II	name	Pharax	Pharax II	2nd use of name
LCAT	6710	Satyrus II	name	Satyrus	Satyrus II	2nd use of name
VRUB	6740	Moon II	name	Moon	Moon II	2nd use of name
LCAT	6764	Myrto II	name	Myrto	Myrto II	2nd use of name
VRUB	6781	Pyxis II-A	name	Pyxis-A	Pyxis II-A	error in entry
VRUB	6782	Pyxis II-B	name	Pyxis-B	Pyxis II-B	error in entry
EMON	6801	Alejandro II	name	Alejandro	Alejandro II	2nd use of name
EFLA	6810	Sinatra II	name	Sinatra	Sinatra II	2nd use of name
PCOQ	6875	Commodus	name	missing	Commodus	updated data
VRUB	6912	Hydra II	name	Hydra	Hydra II	2nd use of name
VRUB	6998	Pyxis II-C	name	Pyxis-C	Pyxis II-C	error in entry
VRUB	6999	Pyxis II-D	name	Pyxis-D	Pyxis II-D	error in entry
VRUB	7062	Carina II	name	Carina	Carina II	2nd use of name
VRUB	7092	Pyxis II-E	name	Pyxis-E	Pyxis II-E	error in entry
VRUB	7095	Carme II	name	Carme	Carme II	2nd use of name
OGG	7155	Juma II	name	Juma	Juma II	2nd use of name
OGG	8038	Zircon II	name	Zircon	Zircon II	2nd use of name
EMAC	538	Medusa	SB#	538	24	error in entry
EMAC	5583	Iphicles	SB#	209*	209	error in entry
EMAC	5830	Danae-C	SB#	1467	303	error in entry
ERUF	5976	Goober	sex	ND	M	updated data
VRUB	7061	Fitily	sex	ND	M	updated data
GSEN	1065	Catalpa	taxonomy	GMOH	GSEN	updated data
HAP	1332	Bebop	taxonomy	HGRI	Hapalemur hybrid	updated data
HAP	1333	Bediddley	taxonomy	HGRI	Hapalemur hybrid	updated data
HAP	1334	Befriended-A	taxonomy	HGRI	Hapalemur hybrid	updated data
HAP	1335	Beyoung	taxonomy	HGRI	Hapalemur hybrid	updated data
HAP	1348	Bewhiskered	taxonomy	HGRI	Hapalemur hybrid	updated data
HAP	1349	Beriddled	taxonomy	HGRI	Hapalemur hybrid	updated data
VAR	1543	Thalia-A	taxonomy	VVV	Varecia hybrid	updated data
EUL	1556	Tina	taxonomy	ERUF	EUL	updated data
GSEN	2020	Elm	taxonomy	GMOH	GSEN	updated data
GSEN	2021	Ash	taxonomy	GMOH	GSEN	updated data
GAL	2043	Winetree	taxonomy	GMOH	Galago hybrid	updated data
GAL	2044	Wingseed	taxonomy	GMOH	Galago hybrid	updated data
GAL	2062	Ginko	taxonomy	GMOH	Galago hybrid	updated data
GAL	2096	Sophora	taxonomy	GMOH	Galago hybrid	updated data
GAL	2097	Sheepberry	taxonomy	GMOH	Galago hybrid	updated data
VAR	3526	Cloe-A	taxonomy	VVV	Varecia hybrid	updated data
EUL	3578	Aloe	taxonomy	ERUF	EUL	updated data
EFUL	5837	Ucumari	taxonomy	EUL	EFUL	updated data
MZAZ	315	AROSY	weight	05/10/1993=297.7	delete entry	duplicate weight
MZAZ	318	FANDRASA	weight	05/10/1993=311.9	delete entry	duplicate weight
MZAZ	367	VINTSY	weight	01/06/1994=210	delete entry	error in entry
CMED	624	JOS	weight	07/21/1976=18	delete entry	error in entry
CMED	625	JESUS	weight	07/21/1976=20.5	delete entry	error in entry
CMED	628	HEZRON	weight	07/17/1977=15	delete entry	error in entry
CMED	629	SALMON	weight	07/17/1977=15	delete entry	error in entry

MMUR	823	Rose	weight	10/02/1974=35	delete entry	error in entry
MMUR	824	Poppy	weight	10/02/1974=32	delete entry	error in entry
MMUR	831	WIL	weight	05/26/1976=13	delete entry	error in entry
PPOT	921	ABENA	weight	3/27/1999=719	delete entry	error in entry
PPOT	922	RENDILLE	weight	11/06/1988=46	delete entry	error in entry
HGG	1367	Becool	weight	06/07/2012=960	delete entry	error in entry
EUL	1551	Yen	weight	04/19/1974=447	delete entry	error in entry
MMUR	1803	GALBANUM	weight	09/27/1995=54.3	delete entry	duplicate weight
MMUR	1803	GALBANUM	weight	10/19/1995=61.2	delete entry	duplicate weight
MMUR	1830	ANGELICA	weight	07/23/1996=100	delete entry	error in entry
MMUR	1860	FLEABANE	weight	03/10/1997=56	delete entry	error in entry
NCOU	1978	INDRA	weight	10/02/2002=1045	delete entry	error in entry
VVV	2560	Babel	weight	05/18/1976=107	delete entry	error in entry
VVV	2561	Virgil	weight	05/18/1976=105	delete entry	error in entry
NPYG	2928	Red Admiral	weight	06/10/2006=49	delete entry	error in entry
NPYG	2936	Io Moth	weight	03/01/2011=350	delete entry	error in entry
GMOH	3171	DOVEPLUM	weight	05/11/1992=13.1	delete entry	error in entry
VAR	3513	GANYMEDE	weight	12/08/1977=2238	delete entry	error in entry
VAR	3518	ARIEL	weight	04/30/1978=2376.82	delete entry	error in entry
VAR	3518	ARIEL	weight	07/06/1978=2712.48	delete entry	error in entry
VAR	3518	ARIEL	weight	08/07/1978=2467.54	delete entry	error in entry
VAR	3519	OBERON	weight	07/06/1978=2648.98	delete entry	error in entry
ECOL	5597	NICOLE	weight	02/04/1992=1766	delete entry	error in entry
EMON	5716	PABLO	weight	07/03/2000=2030	delete entry	duplicate weight
EMON	5724	ELENA	weight	11/20/1991=1330	delete entry	error in entry
VRUB	5768	CASTOR	weight	02/15/1995=4030	delete entry	duplicate weight
VRUB	5768	CASTOR	weight	10/31/1995=4020	delete entry	duplicate weight
EMAC	5850	Hesperus	weight	12/04/1998=2010	delete entry	duplicate weight
EMAC	5859	Latona	weight	01/26/1998=3010	delete entry	error in entry
ECOL	5919	Alphonse	weight	11/02/2013=1900	delete entry	duplicate weight
ECOL	5919	Alphonse	weight	11/02/2013=1900	delete entry	error in entry
ESAN	5951	Fara	weight	05/24/2011=2010	delete entry	duplicate weight
VRUB	6010	ANCHA	weight	05/11/1999=4020	delete entry	duplicate weight
EFUL	6021	ALBERICH	weight	03/09/1998=2760	delete entry	error in entry
ERUB	6038	Dido II	weight	12/29/2008=2080	delete entry	error in entry
EMAC	6085	POLYDORUS	weight	06/20/1997=2030	delete entry	duplicate weight
PCOQ	6108	FLAVIA	weight	02/19/1999=4020	delete entry	duplicate weight
PCOQ	6108	FLAVIA	weight	08/19/1996=4070	delete entry	duplicate weight
PCOQ	6108	FLAVIA	weight	08/20/1996=4070	delete entry	duplicate weight
PCOQ	6108	FLAVIA	weight	10/30/2002=4060	delete entry	duplicate weight
PCOQ	6110	MARCELLA	weight	06/21/1999=4060	delete entry	duplicate weight
EFUL	6123	Frigga	weight	03/09/1998=2760	delete entry	error in entry
EMAC	6136	LOUIE	weight	08/06/2002=2030	delete entry	duplicate weight
ERUF	6137	FLASH	weight	01/04/1996=2575	delete entry	error in entry
ERUF	6137	FLASH	weight	07/07/1993=2035	delete entry	duplicate weight
EUL	6184	Kish	weight	01/13/1998=2010	delete entry	duplicate weight
DMAD	6202	Poe	weight	06/02/2010=2670	delete entry	error in entry
VRUB	6205	Galaxy	weight	10/21/2010=4020	delete entry	duplicate weight
VRUB	6206	Comet	weight	09/13/2001=4020	delete entry	error in entry
VRUB	6206	Comet	weight	09/14/2000=4020	delete entry	error in entry
PCOQ	6207	Tiberius	weight	06/19/1995=4020	delete entry	duplicate weight
PCOQ	6207	Tiberius	weight	10/10/1995=4060	delete entry	duplicate weight
PCOQ	6207	Tiberius	weight	10/11/1995=4060	delete entry	duplicate weight
PCOQ	6207	Tiberius	weight	12/05/1995=4030	delete entry	duplicate weight

ECOL	6225	Giscard	weight	01/07/2014=2015	delete entry	duplicate weight
VRUB	6240	Borealis	weight	05/01/2007=4060	delete entry	duplicate weight
VRUB	6240	Borealis	weight	08/14/2002=4060	delete entry	duplicate weight
VRUB	6240	Borealis	weight	09/03/1997=4020	delete entry	duplicate weight
VRUB	6240	Borealis	weight	10/21/2003=4060	delete entry	duplicate weight
VRUB	6240	Borealis	weight	11/20/2002=4060	delete entry	duplicate weight
EFLA	6248	BARRYMORE	weight	12/02/2008=2400	delete entry	error in entry
DMAD	6261	SAMANTHA	weight	08/31/1988=2474.5	delete entry	error in entry
DMAD	6261	SAMANTHA	weight	09/28/1988=2419.5	delete entry	error in entry
DMAD	6261	SAMANTHA	weight	10/12/1988=2519.5	delete entry	error in entry
DMAD	6261	SAMANTHA	weight	10/24/1988=2456.5	delete entry	error in entry
DMAD	6261	SAMANTHA	weight	11/22/1988=2437.5	delete entry	error in entry
DMAD	6262	ANNABEL LEE	weight	08/31/1988=499.5	delete entry	error in entry
DMAD	6262	ANNABEL LEE	weight	09/14/1988=594.5	delete entry	error in entry
DMAD	6262	ANNABEL LEE	weight	10/12/1988=748.5	delete entry	error in entry
DMAD	6262	ANNABEL LEE	weight	11/07/1988=885.5	delete entry	error in entry
PCOQ	6273	LUCIA	weight	03/16/1999=4020	delete entry	duplicate weight
PCOQ	6273	LUCIA	weight	05/12/1997=4070	delete entry	duplicate weight
PCOQ	6273	LUCIA	weight	08/24/1998=4060	delete entry	duplicate weight
EMAC	6284	Teucer	weight	04/17/2006=2030	delete entry	duplicate weight
EFLA	6288	ROONEY	weight	05/25/1999=2760	delete entry	error in entry
LCAT	6307	SELENE	weight	07/07/1993=2030	delete entry	duplicate weight
VRUB	6311	Antlia	weight	04/10/2001=4060	delete entry	duplicate weight
VRUB	6311	Antlia	weight	04/13/2001=4060	delete entry	duplicate weight
VRUB	6311	Antlia	weight	05/12/1999=4020	delete entry	duplicate weight
VRUB	6311	Antlia	weight	07/15/2003=4020	delete entry	duplicate weight
VRUB	6311	Antlia	weight	12/16/1998=4020	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	01/22/1997=4070	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	03/20/1997=4030	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	03/30/1997=4030	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	08/22/1997=4070	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	08/27/1996=4060	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	10/16/1997=4060	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	10/19/1997=4060	delete entry	duplicate weight
PCOQ	6333	CONSTANTINE	weight	11/10/2000=4070	delete entry	duplicate weight
VRUB	6377	NUNKI	weight	10/23/2007=4020	delete entry	duplicate weight
PCOQ	6398	PAULINA	weight	01/09/1997=4020	delete entry	duplicate weight
PCOQ	6398	PAULINA	weight	12/30/1999=4030	delete entry	duplicate weight
EFLA	6407	Olivier	weight	05/24/2007=2010	delete entry	duplicate weight
ESAN	6427	IKOTO	weight	01/05/1998=2010	delete entry	duplicate weight
EMON	6434	MIGUEL	weight	01/11/2006=2010	delete entry	duplicate weight
LCAT	6435	GELON	weight	09/10/1996=2030	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	01/10/2002=4020	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	01/11/1995=4070	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	02/01/1995=4020	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	04/24/1996=4020	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	05/21/1999=4020	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	08/18/2004=4060	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	11/15/2001=4060	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	11/16/2001=4060	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	11/27/2001=4060	delete entry	duplicate weight
PCOQ	6450	VALENTINIAN	weight	11/28/2001=4060	delete entry	duplicate weight
DMAD	6453	Ozma	weight	03/16/2011=2220	delete entry	error in entry
PCOQ	6517	PULCRA	weight	06/13/1995=4020	delete entry	duplicate weight

PCOQ	6518	Julian	weight	04/14/2003=4020	delete entry	duplicate weight
PCOQ	6518	Julian	weight	05/08/2003=4060	delete entry	duplicate weight
PCOQ	6518	Julian	weight	05/14/2008=4060	delete entry	duplicate weight
PCOQ	6518	Julian	weight	06/16/2005=4060	delete entry	duplicate weight
PCOQ	6518	Julian	weight	07/14/1996=4030	delete entry	duplicate weight
PCOQ	6518	Julian	weight	09/11/2003=4020	delete entry	duplicate weight
PCOQ	6518	Julian	weight	09/19/1996=4060	delete entry	duplicate weight
PCOQ	6518	Julian	weight	09/28/2010=4500	delete entry	error in entry
PCOQ	6518	Julian	weight	10/22/1997=4060	delete entry	duplicate weight
PCOQ	6518	Julian	weight	12/01/2011=4070	delete entry	duplicate weight
LCAT	6528	Licinius	weight	11/15/1995=2010	delete entry	duplicate weight
LCAT	6532	PRAXILLA	weight	10/27/1999=2030	delete entry	duplicate weight
LCAT	6532	PRAXILLA	weight	12/09/1998=2010	delete entry	duplicate weight
PCOQ	6538	Drusilla	weight	05/16/1995=4020	delete entry	duplicate weight
PCOQ	6538	Drusilla	weight	08/18/1995=4070	delete entry	duplicate weight
PCOQ	6538	Drusilla	weight	09/21/2004=4020	delete entry	duplicate weight
LCAT	6574	CHAROPS	weight	11/11/1997=2234	delete entry	error in entry
LCAT	6579	CALISTA	weight	11/15/1995=2010	delete entry	duplicate weight
VRUB	6590	Minias	weight	03/27/1997=4020	delete entry	duplicate weight
LCAT	6598	NANNO	weight	09/10/1996=2030	delete entry	duplicate weight
DMAD	6607	CALIBAN	weight	01/30/1996=2010	delete entry	duplicate weight
DMAD	6607	CALIBAN	weight	03/05/1996=2010	delete entry	duplicate weight
DMAD	6607	CALIBAN	weight	04/30/1996=2010	delete entry	duplicate weight
EMON	6630	ROSALITA	weight	09/24/1997=1410	delete entry	error in entry
VRUB	6633	Pyxis II	weight	06/28/2007=4020	delete entry	duplicate weight
VRUB	6633	Pyxis II	weight	08/16/2013=4020	delete entry	duplicate weight
ECOR	6639	Seker	weight	10/07/2011=2030	delete entry	duplicate weight
EMON	6645	Guadalupe	weight	09/24/1997=1420	delete entry	error in entry
PCOQ	6650	Gordian	weight	01/10/2002=4070	delete entry	error in entry
PCOQ	6650	Gordian	weight	01/25/2002=4030	delete entry	error in entry
PCOQ	6650	Gordian	weight	03/02/2002=4030	delete entry	error in entry
PCOQ	6650	Gordian	weight	08/13/2002=4030	delete entry	error in entry
PCOQ	6650	Gordian	weight	09/05/2007=4020	delete entry	duplicate weight
EFLA	6657	Foster	weight	05/10/2011=3010	delete entry	error in entry
EFLA	6657	Foster	weight	06/07/2011=3270	delete entry	error in entry
EFLA	6657	Foster	weight	07/05/2011=3390	delete entry	error in entry
EFLA	6657	Foster	weight	08/02/2013=3920	delete entry	error in entry
LCAT	6659	PHOTIUS	weight	03/15/2000=3200	weight=3400	error in entry
LCAT	6659	PHOTIUS	weight	03/15/2000=3400	date=2/15/2000	error in entry
VRUB	6684	Hunter	weight	06/16/2005=4020	delete entry	duplicate weight
VRUB	6684	Hunter	weight	11/29/2006=4030	delete entry	duplicate weight
EMON	6686	PHILENA	weight	09/23/1997=1580	delete entry	error in entry
PCOQ	6690	FAUSTINA	weight	02/08/2000=4020	delete entry	duplicate weight
PCOQ	6690	FAUSTINA	weight	05/04/2000=4020	delete entry	duplicate weight
PCOQ	6692	ALEXIANUS	weight	09/28/2000=4030	delete entry	duplicate weight
EMON	6700	Adrianna	weight	03/16/2006=2010	delete entry	duplicate weight
PCOQ	6727	Antonia	weight	04/30/2013=4060	delete entry	duplicate weight
PCOQ	6727	Antonia	weight	07/17/1998=1015	delete entry	duplicate weight
PCOQ	6743	Pia	weight	04/22/2008=5760	delete entry	error in entry
PCOQ	6743	Pia	weight	06/24/2004=4020	delete entry	duplicate weight
PCOQ	6744	Rupillia	weight	09/28/2004=4020	delete entry	duplicate weight
PCOQ	6757	ZENO	weight	11/01/2004=4060	delete entry	duplicate weight
LCAT	6764	Myrto	weight	09/13/2001=2010	delete entry	duplicate weight
PCOQ	6770	Chris	weight	01/22/2004=4030	delete entry	duplicate weight

PCOQ	6770	Chris	weight	02/05/2004=4030	delete entry	duplicate weight
PCOQ	6770	Chris	weight	02/14/2006=4020	delete entry	duplicate weight
PCOQ	6770	Chris	weight	04/08/2004=4020	delete entry	duplicate weight
PCOQ	6770	Chris	weight	08/05/2005=4060	delete entry	duplicate weight
PCOQ	6770	Chris	weight	09/04/2003=4020	delete entry	duplicate weight
DMAD	6787	Salem	weight	08/11/2003=2010	delete entry	duplicate weight
DMAD	6787	Salem	weight	09/24/2003=2010	delete entry	duplicate weight
DMAD	6788	Ozony Avelo	weight	01/07/2003=2002	delete entry	duplicate weight
VRUB	6802	Little Dipper	weight	08/28/2008=3520	delete entry	error in entry
DMAD	6821	Medusa	weight	05/04/2005=1220	delete entry	error in entry
PCOQ	6823	Maximus	weight	08/07/2007=4060	delete entry	duplicate weight
PCOQ	6823	Maximus	weight	10/09/2007=4060	delete entry	duplicate weight
PCOQ	6825	Geta	weight	05/12/2007=4060	delete entry	duplicate weight
PCOQ	6825	Geta	weight	05/14/2007=4060	delete entry	duplicate weight
PCOQ	6825	Geta	weight	05/23/2007=4060	delete entry	duplicate weight
PCOQ	6825	Geta	weight	05/24/2007=4060	delete entry	duplicate weight
PCOQ	6827	Marcus Aurelius	weight	01/09/2009=4420	delete entry	error in entry
PCOQ	6828	Anastasia	weight	08/09/2004=1005	delete entry	duplicate weight
LCAT	6835	Berisades	weight	11/01/2006=2030	delete entry	duplicate weight
LCAT	6835	Berisades	weight	11/06/2006=2030	delete entry	duplicate weight
VRUB	6839	Cassiopea	weight	02/19/2007=4020	delete entry	duplicate weight
DMAD	6842	Medea	weight	06/02/2006=2030	delete entry	duplicate weight
PCOQ	6843	Lucius Verus	weight	11/24/2009=4015	delete entry	duplicate weight
LCAT	6854	Alena	weight	11/01/2006=2030	delete entry	duplicate weight
LCAT	6854	Alena	weight	11/06/2006=2030	delete entry	duplicate weight
LCAT	6855	Alexander	weight	08/04/2009=2260	delete entry	error in entry
LCAT	6862	Tugger	weight	07/22/2011=2220	delete entry	error in entry
LCAT	6876	Ginger	weight	06/02/2006=645	delete entry	error in entry
PCOQ	6884	Irene	weight	01/22/2009=3660	delete entry	error in entry
PCOQ	6900	Matilda	weight	01/13/2014=4280	delete entry	error in entry
LCAT	6909	Sierra Mist	weight	06/02/2008=237	delete entry	error in entry
LCAT	6910	Shasta	weight	06/02/2008=233	delete entry	error in entry
LCAT	6910	Shasta	weight	06/16/2008=265	delete entry	error in entry
DMAD	6915	Ichabod	weight	11/29/2010=2640	delete entry	error in entry
VRUB	6945	Esther	weight	10/30/2012=3840	delete entry	error in entry
PCOQ	6959	Rupert	weight	07/09/2013=4025	delete entry	error in entry
LCAT	6971	Edelweiss	weight	05/28/2012=2620	delete entry	error in entry
LCAT	6974	Johan	weight	06/29/2010=221	delete entry	error in entry
LCAT	6974	Johan	weight	07/05/2010=222	delete entry	error in entry
LCAT	6974	Johan	weight	07/16/2010=336	delete entry	error in entry
LCAT	6974	Johan	weight	07/19/2010=273	delete entry	error in entry
MMUR	7003	HEMP	weight	11/22/1995=61.8	delete entry	duplicate weight
MMUR	7006	ROSEHIP	weight	08/06/2002=85	delete entry	error in entry
MMUR	7011	CORNSILK	weight	11/29/1995=40.6	delete entry	duplicate weight
MMUR	7013	WINTERGREEN	weight	07/27/1995=11.8	delete entry	duplicate weight
MMUR	7014	Sandalwood	weight	07/12/1996=12.7	delete entry	error in entry
MMUR	7015	Dog Rose	weight	07/12/1996=12.8	delete entry	error in entry
MMUR	7016	MUSK ROSE	weight	10/19/1998=90	delete entry	error in entry
MMUR	7016	MUSK ROSE	weight	12/12/1998=85	delete entry	error in entry
MMUR	7017	Kudzu	weight	08/06/2007=100	delete entry	error in entry
MMUR	7020	Periwinkle	weight	11/18/2008=65	weight=60	error in entry
MMUR	7020	Periwinkle	weight	11/18/2008=70	delete entry	error in entry
MMUR	7021	Cilantro	weight	10/21/2012=48	delete entry	error in entry
MMUR	7023	Arnica	weight	01/18/2005=75	delete entry	error in entry

MMUR	7024	Wilbur	weight	01/30/2007=115	weight=120	error in entry
MMUR	7024	Wilbur	weight	02/01/2008=90	weight=85	error in entry
MMUR	7024	Wilbur	weight	03/20/2006=80	weight=75	error in entry
MMUR	7024	Wilbur	weight	03/27/2007=85	weight=95	error in entry
MMUR	7024	Wilbur	weight	03/28/2008=50	weight=55	error in entry
MMUR	7024	Wilbur	weight	04/17/2006=70	weight=75	error in entry
MMUR	7024	Wilbur	weight	04/30/2007=95	weight=90	error in entry
MMUR	7024	Wilbur	weight	05/30/2006=65	weight=70	error in entry
MMUR	7024	Wilbur	weight	06/04/2008=65	weight=75	error in entry
MMUR	7024	Wilbur	weight	11/07/2006=60	weight=100	error in entry
MMUR	7024	Wilbur	weight	12/12/2006=60	weight=110	error in entry
MMUR	7025	Orville	weight	01/30/2007=120	weight=115	error in entry
MMUR	7025	Orville	weight	02/01/2008=85	weight=90	error in entry
MMUR	7025	Orville	weight	02/19/2013=62	delete entry	error in entry
MMUR	7025	Orville	weight	03/20/2006=75	weight=80	error in entry
MMUR	7025	Orville	weight	03/27/2007=95	weight=85	error in entry
MMUR	7025	Orville	weight	03/28/2008=55	weight=50	error in entry
MMUR	7025	Orville	weight	04/17/2006=75	weight=70	error in entry
MMUR	7025	Orville	weight	04/30/2007=90	weight=95	error in entry
MMUR	7025	Orville	weight	05/30/2006=70	weight=65	error in entry
MMUR	7025	Orville	weight	06/04/2008=75	weight=65	error in entry
MMUR	7025	Orville	weight	10/09/2006=90	delete entry	error in entry
MMUR	7025	Orville	weight	11/07/2006=100	weight=60	error in entry
MMUR	7025	Orville	weight	12/12/2006=110	weight=60	error in entry
MMUR	7027	Wormwood	weight	01/29/2013=101	delete entry	error in entry
MMUR	7027	Wormwood	weight	12/14/2010=109	delete entry	error in entry
MMUR	7035	Woundwort	weight	09/22/2010=63	delete entry	error in entry
MMUR	7039	Butterbur	weight	03/08/2011=62	delete entry	error in entry
MMUR	7039	Butterbur	weight	03/15/2011=64	delete entry	error in entry
MMUR	7039	Butterbur	weight	03/22/2011=63	delete entry	error in entry
MMUR	7039	Butterbur	weight	03/31/2011=68	delete entry	error in entry
MMUR	7039	Butterbur	weight	04/07/2011=66	delete entry	error in entry
MMUR	7039	Butterbur	weight	04/12/2011=63	delete entry	error in entry
MMUR	7039	Butterbur	weight	04/21/2011=57	delete entry	error in entry
MMUR	7039	Butterbur	weight	04/26/2011=59	delete entry	error in entry
MMUR	7039	Butterbur	weight	10/20/2010=57	weight=56	error in entry
MMUR	7047	Spalt	weight	08/08/2011=40.1	delete entry	error in entry
MMUR	7047	Spalt	weight	08/11/2011=42.5	delete entry	error in entry
MMUR	7047	Spalt	weight	08/15/2011=44.1	delete entry	error in entry
MMUR	7047	Spalt	weight	08/22/2011=51	delete entry	error in entry
MMUR	7047	Spalt	weight	08/25/2011=50.2	delete entry	error in entry
MMUR	7047	Spalt	weight	08/29/2011=51.9	delete entry	error in entry
MMUR	7047	Spalt	weight	09/01/2011=55.6	delete entry	error in entry
MMUR	7047	Spalt	weight	09/04/2011=53.5	delete entry	error in entry
MMUR	7048	Nugget	weight	08/08/2011=43.2	delete entry	error in entry
MMUR	7048	Nugget	weight	08/11/2011=47.6	delete entry	error in entry
MMUR	7048	Nugget	weight	08/15/2011=46.2	delete entry	error in entry
MMUR	7048	Nugget	weight	08/22/2011=49.3	delete entry	error in entry
MMUR	7048	Nugget	weight	08/25/2011=49	delete entry	error in entry
MMUR	7048	Nugget	weight	08/29/2011=53	delete entry	error in entry
MMUR	7048	Nugget	weight	09/01/2011=56	delete entry	error in entry
MMUR	7048	Nugget	weight	09/04/2011=52.8	delete entry	error in entry
MMUR	7066	Butternut	weight	09/04/2012=56.6	delete entry	duplicate weight

| PCOQ | 7133 | Irene-A | | weight | 02/14/2013=179 | delete entry | error in entry |

Table 4. List of corrections made to the original data release.