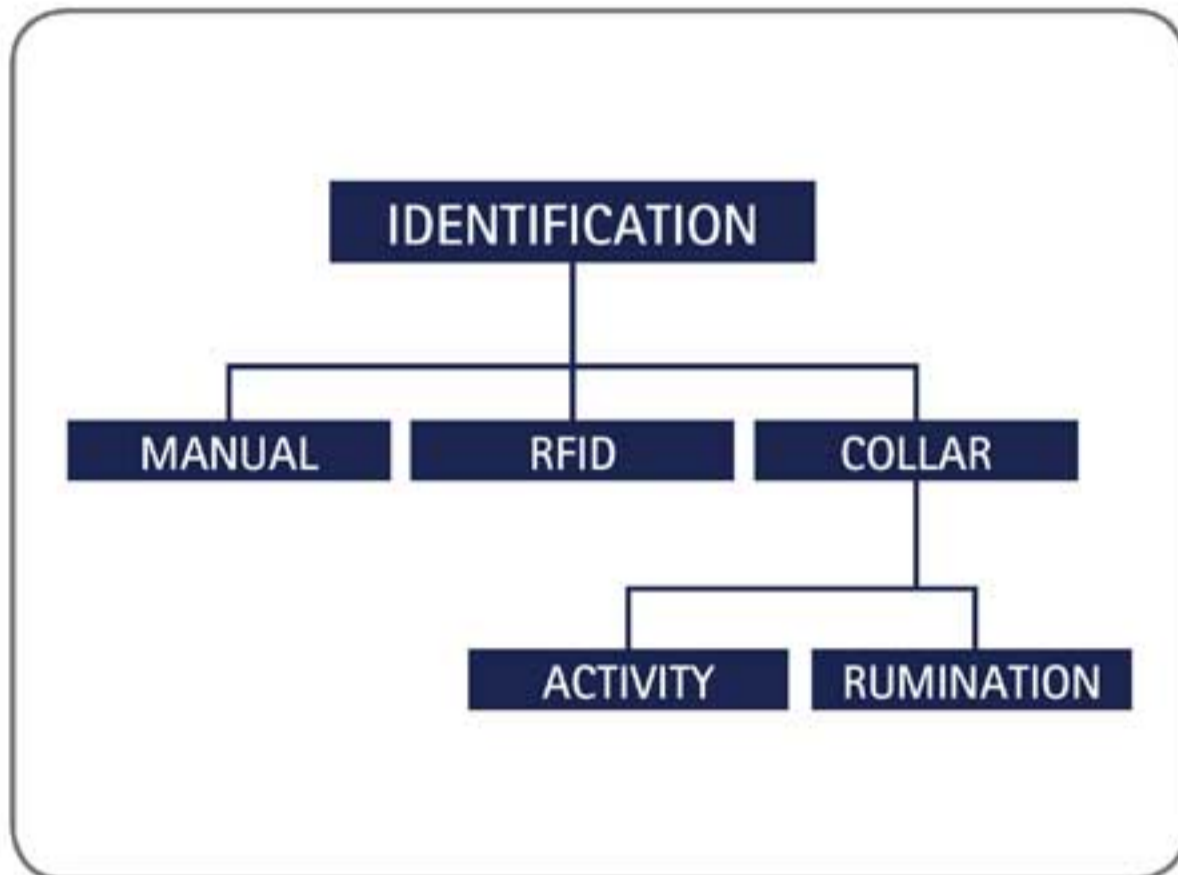




IDENTIFICATION

Milfos offers two solutions for animal identification. A *Radio Frequency Identification (RFID)* ear tag or the *Infrared Collar (IR)*. Only one type of electronic identification is required per installation to automate the identification, milk recording, sorting and weighing process however they offer very different value and benefits so you must choose the best solution for your needs.

Milfos operates a twin identification system. This means the cows ID is read first using the Primary reader and then Verified using the secondary reader. This coupled with advanced antenna and sampling algorithms improves and ensures the accuracy of identification in the system.



RFID TAG

The RFID tag is an inexpensive passive device that is tagged into the cows ear. The system has a unique identification number that is transmitted when in the range of the antenna.



INFRARED COLLAR

There are two options with the *Infrared Collar*.

The standard *Activity Collar and the Ruminant Collar*. Both collar systems have a unique identification number that is transmitted when in the range of the reader however the benefit of these systems is their ability to measure specific actions of the cow for detailed analysis.



ACTIVITY COLLAR



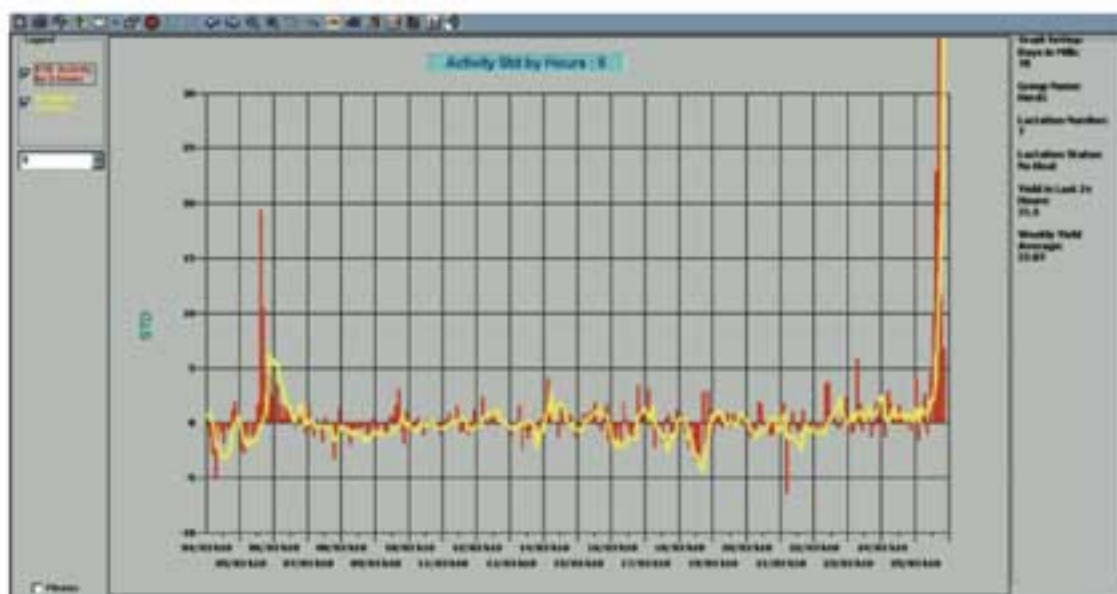
RUMINATION COLLAR



BUCKLE & WEIGHT

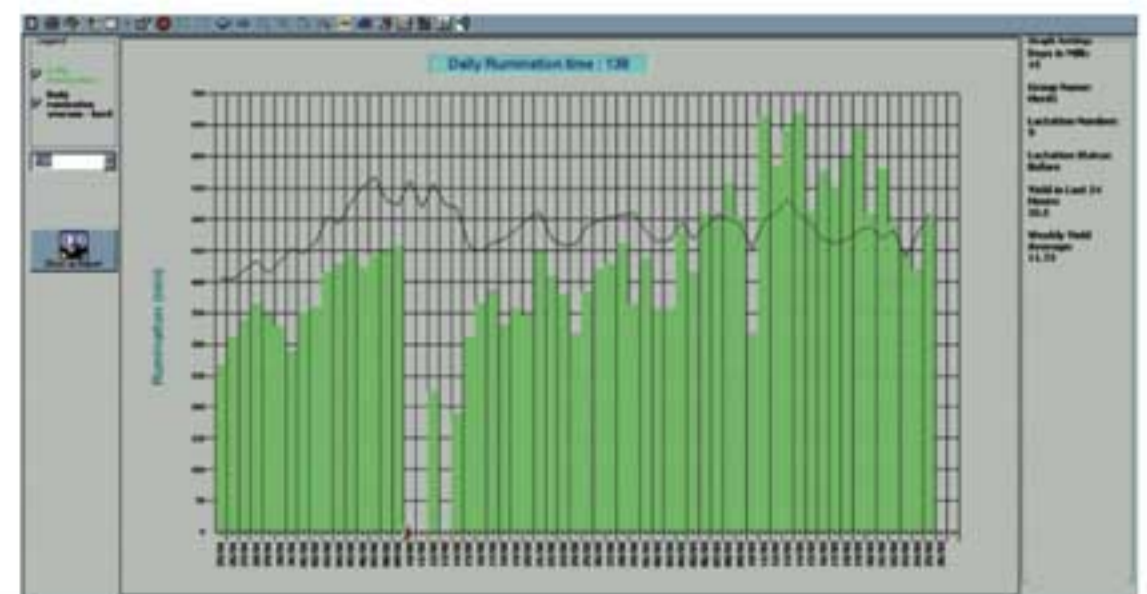
ACTIVITY COLLAR

The collar includes an motion sensor and microprocessor with memory, which enables the logging of an activity index for each cow. This index quantifies all the cow's movements such as; walking, running, lying, standing up and head movements. The activity index is stored separately in the collars memory for every two hours. This recording technique enables monitoring of the cow's activity on a time axis with great accuracy regardless of the time intervals between readings. The additional information together with appropriate software allows us also to differentiate abnormal activity associated with oestrus from other activities such as walking to and from the farm dairy or any other occasional activities. The collar can store data for up to 24 hours



RUMINATION COLLAR

The collar has the same motion sensor and identification technology as the Activity Collar with the addition of a specially tuned microphone for detecting cows ruminating. The rumination time, chewing rhythm and time between feed boluses are recorded in two hour time blocks. This information is downloaded every time the cow is identified at milking time. The collar can also store data for up to 24 hours





IDENTIFICATION REPORTS

iDATAFLOW has a number of useful reports to diagnose identification problems. You can report cows' that are missing from the milking, cows that have got identification problems, cows that were manually identified during milking and report on the percentage of identifications of cows within the last 28 milkings.

IDENTIFICATION PERCENTAGE			
Milk Number	Days	Tag Number	Identification Percentage of Milked Cows
101	101	10101	100
102	102	10202	100
103	103	10303	100
104	104	10404	100
105	105	10505	100
106	106	10606	100
107	107	10707	100
108	108	10808	100
109	109	10909	100
110	110	11010	100
111	111	11111	100
112	112	11212	100
113	113	11313	100
114	114	11414	100
115	115	11515	100
116	116	11616	100
117	117	11717	100
118	118	11818	100
119	119	11919	100
120	120	12020	100
121	121	12121	100
122	122	12222	100
123	123	12323	100
124	124	12424	100
125	125	12525	100
126	126	12626	100
127	127	12727	100
128	128	12828	100
129	129	12929	100
130	130	13030	100

UNIDENTIFIED AT MILKING						
Milk Number	Days	Tag Number	Time of Last ID	Percentage of Last Milking	Percentage of Last 28 Milkings	Initial ID
101	101	10101	10/10/10	100	100	10101
102	102	10202	10/10/10	100	100	10202
103	103	10303	10/10/10	100	100	10303
104	104	10404	10/10/10	100	100	10404
105	105	10505	10/10/10	100	100	10505
106	106	10606	10/10/10	100	100	10606
107	107	10707	10/10/10	100	100	10707
108	108	10808	10/10/10	100	100	10808
109	109	10909	10/10/10	100	100	10909
110	110	11010	10/10/10	100	100	11010
111	111	11111	10/10/10	100	100	11111
112	112	11212	10/10/10	100	100	11212
113	113	11313	10/10/10	100	100	11313
114	114	11414	10/10/10	100	100	11414
115	115	11515	10/10/10	100	100	11515
116	116	11616	10/10/10	100	100	11616
117	117	11717	10/10/10	100	100	11717
118	118	11818	10/10/10	100	100	11818
119	119	11919	10/10/10	100	100	11919
120	120	12020	10/10/10	100	100	12020
121	121	12121	10/10/10	100	100	12121
122	122	12222	10/10/10	100	100	12222
123	123	12323	10/10/10	100	100	12323
124	124	12424	10/10/10	100	100	12424
125	125	12525	10/10/10	100	100	12525
126	126	12626	10/10/10	100	100	12626
127	127	12727	10/10/10	100	100	12727
128	128	12828	10/10/10	100	100	12828
129	129	12929	10/10/10	100	100	12929
130	130	13030	10/10/10	100	100	13030

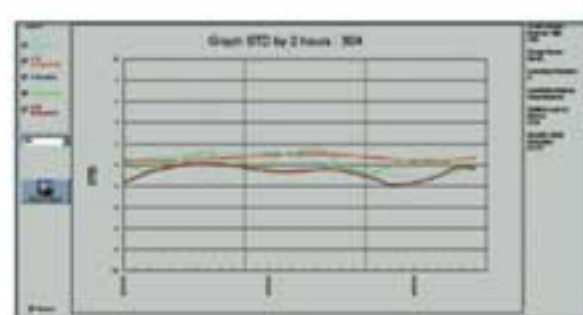
TAG NUMBER			
Milk Number	Days	Tag Number	Correct
101	101	10101	100
102	102	10202	100
103	103	10303	100
104	104	10404	100
105	105	10505	100
106	106	10606	100
107	107	10707	100
108	108	10808	100
109	109	10909	100
110	110	11010	100
111	111	11111	100
112	112	11212	100
113	113	11313	100
114	114	11414	100
115	115	11515	100
116	116	11616	100
117	117	11717	100
118	118	11818	100
119	119	11919	100
120	120	12020	100
121	121	12121	100
122	122	12222	100
123	123	12323	100
124	124	12424	100
125	125	12525	100
126	126	12626	100
127	127	12727	100
128	128	12828	100
129	129	12929	100
130	130	13030	100

WHICH COW IS SICK?



SHE IS OK

Production is good, activity normal, conductivity stable and happily ruminating away



SHE IS NOT

Production, activity, conductivity and ruminantion all pointing to a problem. ACT NOW!

