

AccuCheck™ Quality Assurance Program



AccuCheck™

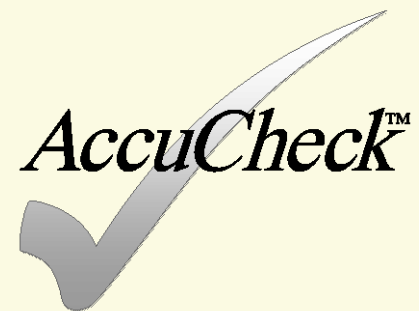
**When It Has
to be Right!**

The CDHIA AccuCheck™ Program

DHIA West Quality Assurance Program

- Field Services
- Lab Services
- Meters (Portable/On-Farm)
- Dairy Record Processing Centers (DRPCs)

*The Nations Only
Trademarked Quality
Assurance Program*



Field Services

- ☞ Interface with DRPC's to report pertinent data in the monthly "Goldenrod" reports to all associations.
- ☞ Monitor and maintain QC aspects of Tester Hiring, Training, Certification, and On-going Education Compliance.

Monthly Field Services AccuCheck Report

Herds Tested

July-12

<i>DHIA Management Statistics</i>	<i>Cent. Cos. N</i>	<i>Cent. Cos. S</i>	<i>Cent. Counties</i>	<i>Churchill</i>	<i>Del Norte</i>	<i>ENM</i>	<i>Ferndale</i>	<i>Fresno</i>	<i>CDHIA Avg</i>
AgSource Avg. Turnaround						3.00			3.00
ATA Herds Avg. Turnaround	5.50	2.80	2.90		9.00	4.70		2.80	2.77
PROVO Herds Avg. Turnaround	4.10	3.20	3.30	3.80	3.00	4.10	5.20	2.20	3.26
DRMS Herds Avg. Turnaround		2.00	2.00						2.73
Test Date to DRPC Rec'd (days)	3.42	2.25	2.36	3.20	3.00	2.81	4.71	1.31	1.97
% Herds w/Bulk Tanks Sent	92.3%	95.2%	95.1%	66.7%	25.0%	31.6%	94.4%	83.9%	90.1%
Avg % Calculated vs Tank Diff.	103.5%	101.7%	101.8%	104.1%	85.2%	103.6%	101.0%	101.9%	101.1%
% Herds w/Tank Diff >110%	8.3%	2.0%	2.3%	0.0%	0.0%	0.0%	17.6%	3.8%	2.9%
% Herds w/Tank Diff 110% - 106%	0.0%	8.5%	8.9%	25.0%	0.0%	16.7%	5.9%	11.5%	11.1%
Target the Tank (99-105%) - % Herds	83.3%	80.5%	79.8%	75.0%	0.0%	50.0%	35.3%	76.9%	75.8%
%Herds w/Tank Diff 99% - 96%	8.3%	7.5%	7.5%	0.0%	0.0%	16.7%	29.4%	3.8%	7.8%
%Herds w/Tank Diff <96%	0.0%	1.5%	1.4%	0.0%	100.0%	16.7%	11.8%	3.8%	2.4%
AgSource w/CowID < 95%									0
ATA Herds w/CowID < 95%	1	31	32		1	3		6	112
PROVO Herds w/CowID <95%	3	57	60	3	2	4	9	19	180
DRMS Herds w/CowID <95%									2
% DRPC Herds < 95% CowID	26.7%	36.2%	35.7%	30.0%	75.0%	29.2%	39.1%	24.0%	34.3%
AgSource - % Usable ID						16.0%			16.0%
ATA Herds - % Usable ID	74.4%	80.3%	80.4%			77.5%		77.8%	72.3%
PROVO Herds - % Usable ID	66.3%	63.8%	63.9%	64.6%	27.8%	67.4%	61.0%	66.4%	62.9%
DRMS Herds % Usable ID		75.7%	75.7%						84.0%
<i>CDHIA Herd Statistics</i>									
AgSource Processed						2			2
ATA Herds Processed	2	95	97		2	11		26	273
PROVO Herds Processed	12	133	145	6	3	11	22	68	466
DRMS Herds Processed		5	5						15
Non-DRPC Herds This Month		9	9	1				9	111
Total CDHIA Herds Enrolled	15	252	267	11	4	24	23	113	969
% Herds Tested This Month	93.3%	96.0%	95.9%	63.6%	125.0%	100.0%	95.7%	91.2%	89.5%
<i>Field QC Statistics</i>									
Monthly Employee Status Report			YES	N/A	N/A	N/A	N/A	YES	

Technician/Tester Certification

 **Monitor Initial Training**

 **In-Depth Technician Certification**

- On-Line Materials and Certification Level Testing Provided

 **Annual Tester Conferences**

- Required Attendance

 **Testers are professional and must maintain confidentiality of data**

Technician Certification

Annual Field Technician Conferences

- Quality Program Presented
- Test Given
- ID Card Provided w/Expiration
- Reported to Auditor

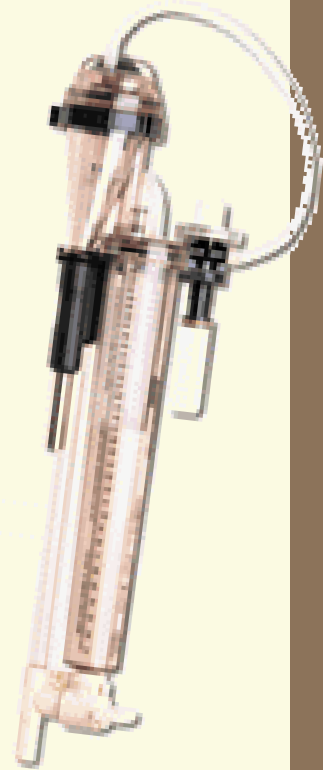
On-Going Education

Quarterly Managers Meetings





- Variety of topics and issues covered and discussed
- Guest speakers, facility tours, or hands-on training
- Important discussions and resource contacts as well as timely materials

DHIA Meters

- 📄 **Yearly Meter Calibrations Required**
- 📄 **Calibration Stickers or Tags**
- 📄 **Close Tolerances for Accuracy**
- 📄 **Completed within 365 day cycle**
- 📄 **Unique ID Numbers Tracked**



Meter Centers

-  **Required Items Provided for Certification of Centers**
-  **Training and Certification Schools Available**
-  **Audit Inspection Compliance**
-  **Backup and Technical Expertise**

On-Farm Meters

 **Yearly Calibrations Required**

 **Annual Calibration Reminder Letters**

- Equipment Dealers
- Dairymen

 **On-Farm Accuracy Monitoring**

 **Equipment Dealer Interface and Communications**

Certified DHIA Labs

Lab Technician – Key Person

- Startup & Hourly Check Samples
- Weekly Calibration Checking
- Monthly Unknown Samples
- Updated Procedures and Policies
- Lab Manager On-Going Education
- Lab Audits Required Every 2 Years



Sample Unknowns Program

Unknown Samples Sent Each Month

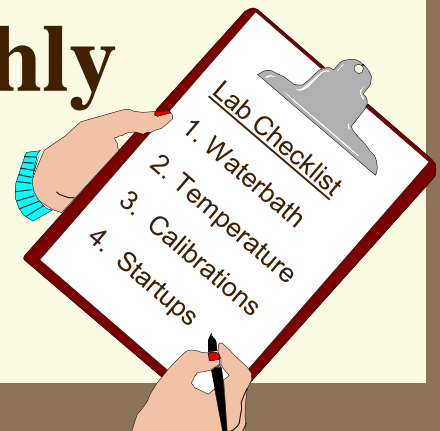
– Verifies Calibration of Lab Instruments

Monitored and Reported On-Line

Assistance w/Outliers & Compliance

– Interface w/QC Auditor

QC Reports Provided Monthly





Sample Unknown Monitoring Report

February 12 - July 12

	February			March			April			May			June			July				
	Mean Diff.	Std. Dev.	6 Mo. Avg.	Mean Diff.	Std. Dev.	6 Mo. Avg.	Mean Diff.	Std. Dev.	6 Mo. Avg.	Mean Diff.	Std. Dev.	6 Mo. Avg.	Mean Diff.	Std. Dev.	6 Mo. Avg.	Mean Diff.	Std. Dev.	6 Mo. Avg.		
ADM Labs	1 Delta	Fat	0.004	0.012	-0.005	0.009	0.011	-0.007				-0.005	0.017	-0.007	0.015	0.020	0.001	0.000	0.018	0.004
	1 Delta	Prot	0.008	0.013	0.008	0.009	0.009	0.010	Down for Repair			0.011	0.012	0.009	0.016	0.014	0.011	0.003	0.010	0.011
	1 Delta	SCC	0.060	0.070	0.040	0.010	0.050	0.030				0.030	0.030	0.030	0.040	0.040	0.040	-0.050	0.040	0.020
	2 Delta	Fat	-0.009	0.015	-0.007	-0.005	0.033	-0.002	-0.005	0.033	-0.002	0.023	0.016	0.005	-0.020	0.040	0.001	0.040	0.026	0.009
	2 Delta	Prot	0.011	0.015	0.009	0.023	0.013	0.010	0.023	0.013	0.010	-0.011	0.014	0.006	0.009	0.011	0.007	-0.022	0.014	0.002
	2 Delta	SCC	0.040	0.040	0.000	0.010	0.040	0.010	0.010	0.040	0.010	0.000	0.050	0.010	0.050	0.050	0.020	-0.030	0.040	0.010
Central Co DHIA	A Delta	Fat	0.005	0.016	-0.009	-0.004	0.015	-0.011	-0.001	0.010	-0.008	0.010	0.014	-0.004	0.005	0.033	0.000			Out of
	A Delta	Prot	0.014	0.016	0.009	-0.013	0.017	0.007	-0.013	0.014	0.005	-0.017	0.025	0.001	-0.024	0.015	-0.008			Service
	B Delta	Fat	0.013	0.013	0.006	0.010	0.012	0.003	-0.030	0.023	-0.004	0.007	0.019	-0.003	0.000	0.025	-0.002	-0.019	0.028	-0.003
	B Delta	Prot	0.022	0.018	0.014	-0.038	0.021	0.000	0.012	0.023	0.000	-0.018	0.080	-0.003	v-0.49	0.021	-0.015	-0.060	0.025	-0.013
	B Delta	SCC	0.000	0.050	-0.010	0.000	0.050	-0.010	-0.090	0.080	-0.020	-0.030	0.060	-0.020	0.010	0.040	-0.020	-0.050	0.060	-0.030
	C Delta	Fat	0.025	0.022	0.011	0.023	0.019	0.012	0.014	0.022	0.009	0.043	0.029	0.016	-0.011	0.027	0.015	-0.024	0.035	0.012
	C Delta	Prot	0.003	0.014	0.004	-0.001	0.011	0.003	0.008	0.021	0.004	0.011	0.021	0.004	0.002	0.019	0.003	-0.032	0.008	-0.001
	C Delta	SCC	-0.040	0.060	0.000	-0.020	0.050	0.000	-0.020	0.050	0.000	0.020	0.060	0.000	0.030	0.060	0.000	v-0.016	v-0.11	-0.030
	D Foss	Fat	0.012	0.013	0.003	-0.021	0.013	-0.003	-0.003	0.020	-0.040	0.006	0.012	-0.002	0.007	0.020	0.001	-0.026	0.030	-0.040
	D Foss	Prot	0.012	0.011	0.009	0.011	0.017	0.009	0.019	0.009	0.011	-0.015	0.015	0.009	0.003	0.016	0.005	-0.029	0.021	0.000
	D Foss	SCC	-0.010	0.030	0.030	-0.010	0.040	0.020	-0.010	0.040	0.020	0.010	0.050	0.020	0.010	0.040	0.010	-0.010	0.040	0.000
Circle H	Foss	Fat	v0.054	0.013	v0.021	0.015	0.018	0.027	0.033	0.016	0.024	0.014	0.013	0.028	0.018	0.017	0.026	-0.001	0.016	-0.040
	Foss	Prot	v0.043	0.016	v0.028	0.032	0.016	0.025	0.012	0.019	0.022	0.003	0.013	0.023	0.005	0.017	0.018	-0.024	0.021	0.000
	Foss	SCC	-0.090	0.040	-0.010	-0.020	0.030	-0.020	0.000	0.050	-0.020	-0.020	0.060	-0.020	-0.020	0.030	-0.030	-0.020	0.040	0.000
Fresno DHIA	F1 B2000	Fat	0.017	0.034	-0.001	0.009	0.031	0.002	-0.007	0.026	0.004	0.000	0.030	0.006	0.013	0.029	0.005	0.013	0.029	0.005
		Prot	0.027	0.028	0.015	-0.020	0.025	0.011	-0.001	0.026	0.012	-0.019	0.033	0.004	0.001	0.015	0.001	-0.001	0.015	0.001
	F2 B2000	Fat	0.023	0.028	-0.002	0.016	0.013	0.004	-0.009	0.025	0.005	0.000	0.031	0.007	0.023	0.030	0.008	-0.023	0.030	0.008
		Prot	0.031	0.027	0.013	0.012	0.027	0.011	-0.004	0.031	0.013	-0.021	0.040	0.004	0.004	0.020	0.002	-0.004	0.020	0.002
	F3 BFTS	Fat				0.010	0.030	0.010	-0.017	0.030	-0.004	0.012	0.026	0.001	0.020	0.028	0.006	-0.010	0.050	-0.030
		Prot				0.017	0.029	-0.017	0.016	0.028	0.001	-0.003	0.031	0.001	0.000	0.017	-0.001	0.000	0.050	-0.020
	S1 B500B	SCC	-0.040	0.050	-0.020	-0.030	0.050	-0.030	-0.030	0.030	-0.030	-0.030	0.040	-0.040	-0.010	0.050	-0.030	-0.010	0.050	-0.030
	S1 B500R	SCC	-0.010	0.040	-0.020	-0.020	0.050	-0.030	-0.020	0.030	-0.030	-0.020	0.040	-0.040	0.000	0.050	-0.020	-0.010	0.050	-0.030
	S2 B500B	SCC	-0.020	0.040	-0.020	-0.030	0.050	-0.030	-0.030	0.030	-0.020	-0.050	0.040	-0.030	-0.010	0.050	-0.030	0.020	0.028	0.006
	S2 B500R	SCC	-0.030	0.040	-0.010	-0.040	0.060	-0.020	-0.040	0.030	-0.020	-0.040	0.050	-0.040	-0.010	0.500	-0.030	0.000	0.017	-0.001
	S3 BFMCI	SCC				-0.020	0.050	-0.020	-0.030	0.030	-0.030	-0.040	0.040	-0.030	-0.030	0.050	-0.030	-0.030	0.050	-0.030
		S3 BFMCI	SCC			-0.020	0.050	-0.020	-0.030	0.030	-0.030	-0.030	0.050	-0.030	-0.020	0.050	-0.030	-0.020	0.050	-0.030
	Kings DHIA	F1 B2000	Fat	0.002	0.014	0.005	0.010	0.018	0.006	-0.003	0.020	0.003	0.019	0.015	0.005	-0.001	0.024	0.006	0.003	0.026
		Prot	-0.003	0.018	-0.002	-0.013	0.019	-0.003	0.014	0.018	0.003	0.026	0.022	0.007	-0.019	0.011	0.002	0.006	0.022	0.002
F2 B2000		Fat	0.003	0.018	0.021	-0.023	0.029	0.009	-0.023	0.029	0.009	0.031	0.024	0.013	0.018	0.023	0.013	0.010	0.021	0.008
		Prot	-0.016	0.016	-0.005	-0.009	0.021	-0.006	0.020	0.014	0.001	0.028	0.017	0.006	0.010	0.013	0.007	0.023	0.028	0.009
F3 B2000		Fat	0.002	0.029	0.006	-0.003	0.014	0.002	-0.020	0.025	-0.003	0.005	0.025	-0.005	0.009	0.027	-0.001	-0.016	0.034	-0.004
		Prot	0.004	0.015	0.009	-0.014	0.021	0.004	0.028	0.011	0.009	0.010	0.022	0.006	0.006	0.019	0.003	-0.011	0.024	0.002
S1 B300		SCC	-0.030	0.030	0.000	0.050	0.040	0.000	0.050	0.010	0.000	0.020	0.040	0.000	-0.060	0.050	-0.010	-0.050	0.030	-0.020
S2 B500R		SCC	-0.040	0.050	0.020	-0.050	0.050	0.020	-0.060	0.050	-0.040	-0.010	0.090	-0.030	0.000	0.050	-0.030	-0.100	-0.050	-0.040
S2 B500B		SCC	-0.040	0.040	-0.020	-0.040	0.050	-0.040	-0.060	0.060	-0.040	0.010	0.060	-0.030	-0.030	0.040	-0.030	-0.080	0.040	-0.040
S3 B500R		SCC	-0.050	0.040	0.000	0.020	0.040	0.000	0.000	0.040	0.010	0.030	0.050	-0.010	-0.010	0.060	0.000	-0.020	0.040	0.000
		S3 B500B	SCC	-0.060	0.070	0.000	0.010	0.030	0.000	0.010	0.030	0.000	0.020	0.060	0.000	0.040	0.000	0.010	0.030	0.000

Butterfat and Protein Instruments:

1. The Mean Difference must not exceed $\pm .04$ and the Standard Deviation of the mean differences must not exceed $.04$ in three of the previous four trials.
2. The rolling mean difference of the previous six trials must not exceed $\pm .02$ **You must be in 4 out of the last 6**

Somatic Cell Count Instruments:

1. The Mean Difference must not exceed $\pm .10$ and the Standard Deviation of the mean differences must not exceed $.10$ in three of the previous four trials.
2. The rolling mean difference of the previous six trials must not exceed $\pm .05$ **You must be in 4 out of the last 6**



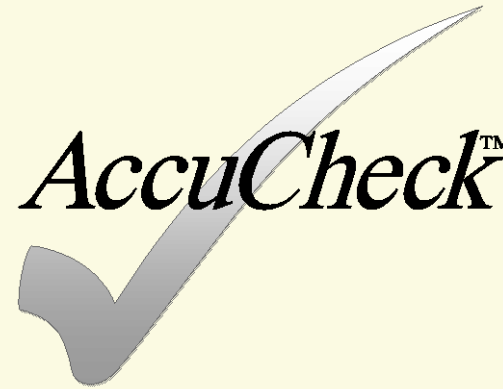
DHIA

West

And

AccuCheck™

AccuCheck™



A Winning Combination!