

# USMIEF セミナー

米国牛肉産業における  
識別、トレーサビリティ、証明

レアン サウンダーズ  
IMI Global



# 米国に於ける家畜識別・トレーサビリティ 制度構築への原動力

## (1) 家畜の保護

疾病とバイオテロへの備え

## (2) 消費者の信頼促進

海外マーケットへのアクセス確保と

ブランド商品の提供

## (3) 供給側への恩恵・利益

利益増加につながる重要な情報の獲得改善



SOURCE: Leann Saunders (IMI Global, Inc.) 2004.

# 無線式ID装置 (RFID)ーボックスへの装着

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- ウォルマート、ターゲット、アルバートソンでは RFIDをテスト中
- 米国国防省, ヨーロッパのテスコ、メトロ, その他少なくとも2社の量販企業がRFID開始を計画中

# 動物用識別技術

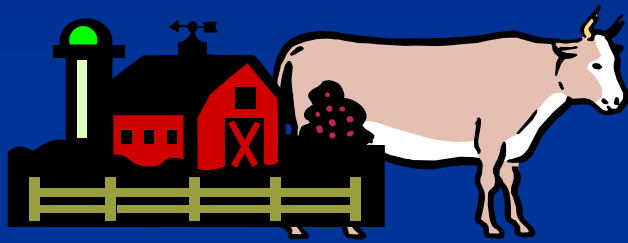
- 識別方法:
  - 標識・タグ
  - RFID (無線方式によるID)
  - ICチップ
  - GPS
  - バーコードタグ
  - 網膜パターン
  - DNA
  - ルーメン挿入式  
無線応答機





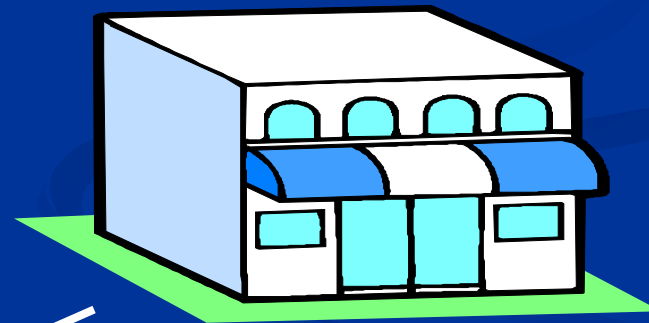
# 各施設間での家畜個体トレース

840 834502584384



A23L449

442DW31



Livestock Auction



SB3T552

# 家畜情報の移転

- 全国動物認識システム (NAIS)
  - 全国レベルのデータベース—USDA or NCBA
- データサービス提供・運営管理企業
  - 電子的に家畜情報を収集し全国データベースへ供給
  - 現在数社がこのサービスを提供



# 例—モンタナビーフネットワーク

## 必須事項:

- 認識票・タグ
- 出所情報 (USDA による施設番号)
- 月齢情報 (誕生日などを利用したもの)
- 全国データベースへの登録日
- このプログラムに参加希望の生産者はモンタナビーフネットワークはじめ以下の運営管理会社に連絡が必要: IMI Global, eMerge Interactive, AgInfoLink, APEIS, Bovitrak, Sterling Solutions



Mountains & Minds

MONTANA STATE UNIVERSITY

Animal & Range Sciences Extension Service



7/15/2005

# 生産農家、牧場主からの証明書(例)

Electronic ID: **985120056453912**

## Location History

Company Name:	Diamond D Ranch	Electronic ID:	985120056453912
Contact:	Dusty Markham	Ranch Tag:	RED 898
Address:	123 Mill Creek Road Melvern , KS 64081	Growyard Tag:	RED 898
Phone:	(913) 579-6304	Feedyard Tag:	RED 898
Country:		Bar Code:	1234567
Premise ID:		DNA Code:	1234567
		Sex:	Steer
		Breed:	
		Color:	Black

## Event History(2)

Date	ID	Event	Weight	ADG	Height
07/15/2005	985120056453912	processing	412.00	0	45
02/15/2005	985120056453912	Birth	96.00	0	32

## Charge History(2)

Date	ID	Regimen	Type	Description	Amount	Units	Cost
Jul 15 2005 12:00AM	985120056453912	Initial Vaccinations	Clostridial Vac	Bovisheild	10.00	CC	0.34
Jul 15 2005 12:00AM	985120056453912	Initial Vaccinations	Implants	Exceede	1.00	BX	0.50

# 日本の懸念への米国業界の取り組み

## 月齢、出生地、その他のトレーサビリティの証明

- 多くの牧場主、農家、フィードロット、パッカーは月齢についての包括的で内容の充実したプログラムを構築中
- 農務省のQSAプログラム準拠義務
- パッカーではSRMの除去、A40に対応
  - A40は全生産の僅か9%
  - 大半の企業は月齢記録による月齢証明に専念

# USDA QSAとは?

## 品質管理システム

### 国際基準に準拠し構築

- ISO 9001-2000
- 15の基本に対応:
  - ID(識別)とトレーサビリティー
  - IDの維持
  - 不適合の抑止
  - 管理
  - トレーニング
  - 工程、製品のモニタリングなど
  - 記録
- 第三者による証明ー ISO 19011:2004

# QSA—その機能は?

日本向け品質システムのカバーする内容・範囲を決定:

- 月齢(年齢)
- 出生・産地
- SRMの除去
- ボンレスビーフのみが対象
- 品質管理システム(QMS)による証明
- 第三者機関としてのUSDAによる監査
- QSAは全農が実施している安心システムに類似  
<http://www.zennoh.or.jp/zennoh-anshin/>
- 透明性、情報開示法(FOIA)に対応

# EVとは?

- EV- 牛肉輸出証明
- EV- 特定の国の製品に関する指示
  - 日本向けBEVでは—SRM除去、20ヶ月齢又はそれ以下の牛を原料、特定の製品のみ輸出可能
  - 実際の月齢による (数々のシステム構築を実施中)
    - A40 (生産の9%)
- USDA Process Verified (PVP)-- <http://processverified.usda.gov/>
- USDA Quality Systems Assessment (QSA)--<http://www.ams.usda.gov/lsg/arc/qsap.htm>
- USDA Beef Export Verification (BEV) --<http://www.ams.usda.gov/lsg/arc/bev.htm>

# 商品の特質を証明

- 出生・納入元
- 月齢
- 飼・肥育工程
- 遺伝的情報
- 家畜の取り扱いについて

納入業者  
決定の  
フロー

商品に関する必要条件  
に関する  
コミュニケーション

納入業者の  
評価

運営,家畜識  
別,トレーサビ  
リティーシステ  
ム,記録,スタッ  
フの聞き取り  
などをもとに評  
価

納入業者候補

認定納入業者  
の  
決定

# 月齡に関する必要条件

- 子取り農家の基本作業
  - 分娩記録 (文書記録と保管)
  - 家畜の識別 (個体又は群れによるもの)
  - 情報の移転
  - 出産シーズンの限定
  - 書類の保管 (3 年間)



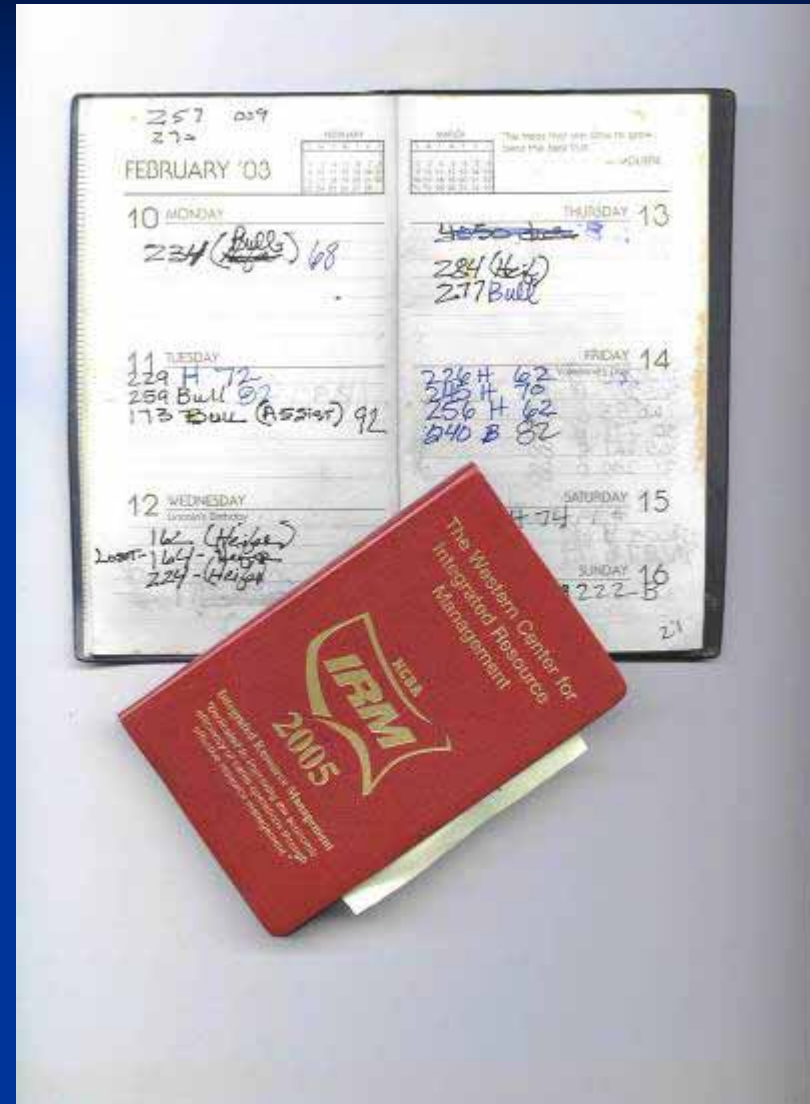
**注: 標準作業手順/記録等による裏づけ**

# 個体家畜識別と個体月齡証明

Cow Number	Calf Number	Breed	Color	Sex	Calving Date	Weaning Date	Weaning Wt.
457	45705	AngX	BWF	B	2/22/05		
223	22305	CharX	Smokey	H	2/23/05		
576	57605	Angus	Blk	H	2/23/05		
129	12905	Angus	Blk	H	2/26/05		
964	96405	CharX	White	B	2/27/05		
924	92405	AngX	BWF	B	2/28/05		
982	98205	Angus	Blk	B	2/29/05		
573	57305	Angus	Blk	B	2/29/05		
222	22205	Angus	Blk	B	2/29/05		



# 群れによる月齢証明



# 月齡証明の条件

- 基本：ストッカー・生産農家、家畜商、フィードロット、パッカー
  - 群れによる識別の維持
  - グループ、個体識別 (統一性の維持)
  - “**認証納入業者リスト**” の作成(業者の現場での評価) と認証業者からの家畜の調達
  - 所有権変更時における月齡情報の保持
  - 家畜の統一性の情報提供



**注: QMSと標準作業手順/記録による確認**



http://www.usverified.com/ProgramForms/QualityManual/Locations/Documents/ShowPrimaryDocuments.a - Microsoft Internet Explorer p

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites

Address http://www.usverified.com/ProgramForms/QualityManual/Locations/Documents/ShowPrimaryDocuments.aspx?id=73 Go Links

**Existing Documents for Beef Marketing Group (BMG)**  
[Add New Document](#) [Return to Manager](#)  
**23 Document(s) found**

	Document Name	Document Nbr	Description	Category	Type	Revision Date	Updated By
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">AUDIT AND MEETING SCHEDULE</a>	AUD210	Management Team Meeting and Internal Auditing Schedule	Feedlot	Excel	05/20/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">INTERNAL AUDIT PROCEDURE</a>	AUD300	Internal Auditing Procedure	Feedlot	Word	05/20/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">SUPPLIER EVALUATION AUDIT PROCEDURE</a>	AUD500	Supplier Evaluation/Audit Procedure	Feedlot	Word	05/20/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">SUPPLIER EVALUATION CHECKLIST</a>	AUD600	Supplier Evaluation Checklist	Feedlot	Word	05/20/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">INTERNAL AUDIT CHECKLIST</a>	AUD700	Internal Audit Checklist--Used to record results of Internal Audit	Feedlot	Word	07/11/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">CUSTOMER PERCEPTION LOG</a>	CSTMR100	Record of Customer Feedback	Feedlot	Word	05/20/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">Lot Activity Documentation ID300</a>	ID300	Displays activity within a lot for cattle received, shipped, and deceased.	Feedlot	Word	06/14/05	Heath Donle
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">IDENTITY TRANSFER DOCUMENT</a>	ID400	Document to follow cattle throughout the process if cattle are not ranch direct. Then this needs to be utilized in addition to ID100	Feedlot	Word	06/07/05	Heath Donle
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">Lot Number Assignment Procedure ID500</a>	ID500	Procedure to maintain group identification and ensure integrity of the unique number.	Feedlot	Word	06/14/05	Heath Donle
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">IDENTIFICATION AND TRACEABILITY IN THE FEEDLOT</a>	ID700	Identification and Traceability of cattle in the feedlot--shows both cattle and information flow	Feedlot	Adobe pdf	06/12/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">MANAGEMENT TEAM MEETINGS</a>	MGMT200	Management Team Reviews--this establishes what must be covered and is the document to record meeting minutes.	Feedlot	Word	05/20/05	Learn Saun
<a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">NONCONFORMANCE REPORT</a>	NC100	The form used to record non-conformances and correction action.	Feedlot	Word	05/20/05	Learn Saun

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# Document EXAMPLES OF USVERIFIED Customer— The Beef marketing Group (13 Farmers and Feedlots)

## Beef Marketing Group Coop. Inc. Cattle Age and Source Documentation

DOCUMENT NUMBER: 8202  
REVISION DATE: 8/22/03

### Identity Transfer Documentation

This document must be filled out every time cattle transfer ownership prior to shipment for harvest.

1 <sup>st</sup> Transfer of Ownership	
Date calves shipped: <b>11-2-04</b>	Date calves received: <b>11-2-04</b>
# Calves shipped: <b>27</b> Sex: <b>S H O</b>	# Calves received: <b>27</b>
Cattle identification: <b>Brand</b>	Location Type: <input checked="" type="checkbox"/> Cow/calf <input type="checkbox"/> Stocker/backgrounder <input type="checkbox"/> Sale barn <input type="checkbox"/> Feedlot <input type="checkbox"/> Other
Ranch/Farm/Operation Name: (From)	Ranch/Farm/Operation Name: (To)
Name: <b>Red Plains Ranch</b>	Name: <b>PK Farms</b>
Address: <b>Box 131A</b>	Address: <b>Box 757</b>
City, State, Zip: <b>Cashion NM 12345</b>	City, State, Zip: <b>King Fisher NM 12347</b>
Telephone: <b>405 433 1234</b>	Telephone: <b>405 375 1234</b>
Fax: <b>405 433 4321</b>	Fax: <b>405 375 4321</b>

METHOD OF IDENTIFICATION - birthdate MUST be in a month/day/year format  
 Individual Age Verification (individual calf birthdates) What is the oldest calf's birthdate if using individual records?  
**ATTACH INDIVIDUAL BIRTHDATE RECORDS**  
 Group Age Verification - Calving Season Start Date: **2/10/04** End Date: **4/3/04**  
 I am approved to market source and age verified cattle through the following USDA Process Verified Data Service Provider:  
 Name of Data Service Provider: **MT Global, Inc.** Date Approved: **2/02/05**

I understand the Identity Transfer Documentation is part of a USDA QSA program and I have records to support the above information. I agree to keep supporting records on file for 3 years. I understand my operation and records may be audited.

<i>C. Gerken</i>	11/2/04	<i>D. King</i>	11/2/04
Shipper/Producer Signature	Date	Receiver Signature	Date

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2 <sup>nd</sup> Transfer of Ownership	
Date cattle shipped:	Date cattle received:
# Cattle shipped: Sex: <b>S H M</b>	# Cattle received:
Cattle identification: <b>ear tags, brand</b>	Location Type: <input type="checkbox"/> Stocker/backgrounder <input type="checkbox"/> Sale barn <input type="checkbox"/> Feedlot <input type="checkbox"/> Other
Ranch/Farm/Operation Name: (From)	Ranch/Farm/Operation Name: (To)
Name:	Name:
Address:	Address:
City, State, Zip:	City, State, Zip:
Telephone:	Telephone:
Fax:	Fax:

I understand the Identity Transfer Documentation is part of a USDA QSA program and I have records to support the above information. I agree to keep supporting records on file for 3 years. I understand my operation and records may be audited.

Shipper/Producer Signature	Date	Receiver Signature	Date
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3 <sup>rd</sup> Transfer of Ownership	
Date cattle shipped:	Date cattle received:
# Cattle shipped: Sex: <b>S H M</b>	# Cattle received:
Cattle identification: <b>ear tags, brand</b>	Location Type: <input type="checkbox"/> Stocker/backgrounder <input type="checkbox"/> Sale barn <input type="checkbox"/> Feedlot <input type="checkbox"/> Other
Ranch/Farm/Operation Name: (From)	Ranch/Farm/Operation Name: (To)
Name:	Name:
Address:	Address:
City, State, Zip:	City, State, Zip:
Telephone:	Telephone:
Fax:	Fax:

I understand the Identity Transfer Documentation is part of a USDA QSA program and I have records to support the above information. I agree to keep supporting records on file for 3 years. I understand my operation and records may be audited.

Shipper/Producer Signature	Date	Receiver Signature	Date
----------------------------	------	--------------------	------

1. I, (owner name-print) \_\_\_\_\_  
 (Signature) \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Address: \_\_\_\_\_ Premise # (if known) \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**declare that the following described animal(s) were calved and raised on my farm or ranch**

Ranch ear tag #'s (if any): \_\_\_\_\_  
 Ranch brand (if any): \_\_\_\_\_  
 Brand location: \_\_\_\_\_  
 Breed: \_\_\_\_\_  
 Total head count: \_\_\_\_\_  
 Sex (circle): Steer or Heifer or Mix \_\_\_\_\_

**Age verification information: Group birthdate MUST be filled in**

**Group Birthdate:** (date first calf born) - Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: **20** \_\_\_\_\_  
 **Calving Season:** \_\_\_\_\_ TO \_\_\_\_\_  
 Optional:  Artificial insemination dates (if applicable): - Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: **20** \_\_\_\_\_  
 Optional:  Turn bulls with cows - Natural service - Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: **20** \_\_\_\_\_  
 Clean-up - Month: \_\_\_\_\_ Day: \_\_\_\_\_ Year: **20** \_\_\_\_\_

2. I specifically declare that I have the following records to verify this animal's age (check box for records you have):

Group birth records	Individual birth records
---------------------	--------------------------

3. I declare that I have and will maintain these records for three years from the date of signature to prove this animal's origin and age.

4. Is this the first transfer of ownership? **YES** or **NO** If no, complete form Identity Transfer Documentation ID400

5. Do you use a USDA Process Verified data service provider? **YES** or **NO**  
 If yes, Company Name: \_\_\_\_\_

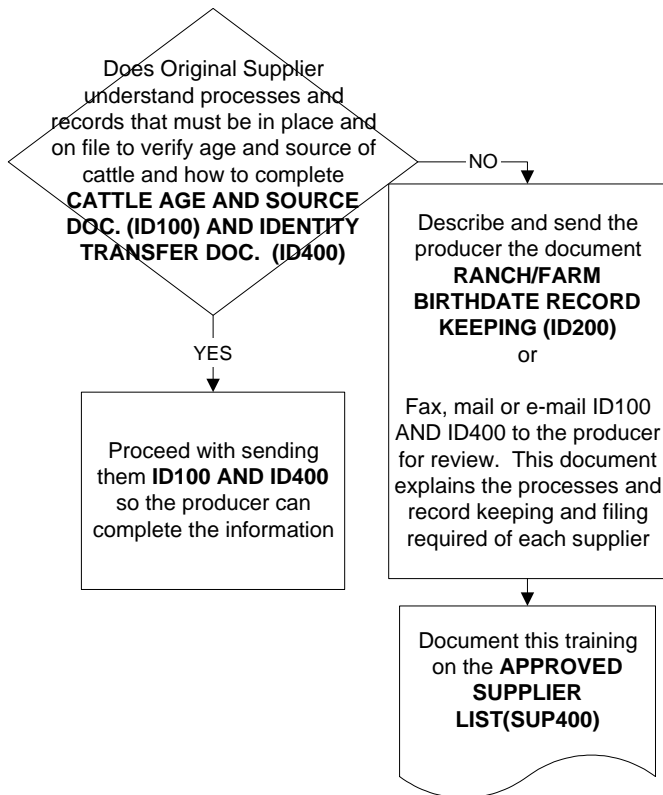
**Age verification records, calving records, breeding records, sales receipts, etc. are subject to inspection by the feedlot and USDA upon a 24 hour notice to maintain compliance with the Beef Export Verification program.**

**NOTE:** Individual animals' origin must be able to be sourced back to birth location. Animals from different locations can't be commingled until each is individually ear tagged and the ear tag number documented with corresponding ranch/birth location.

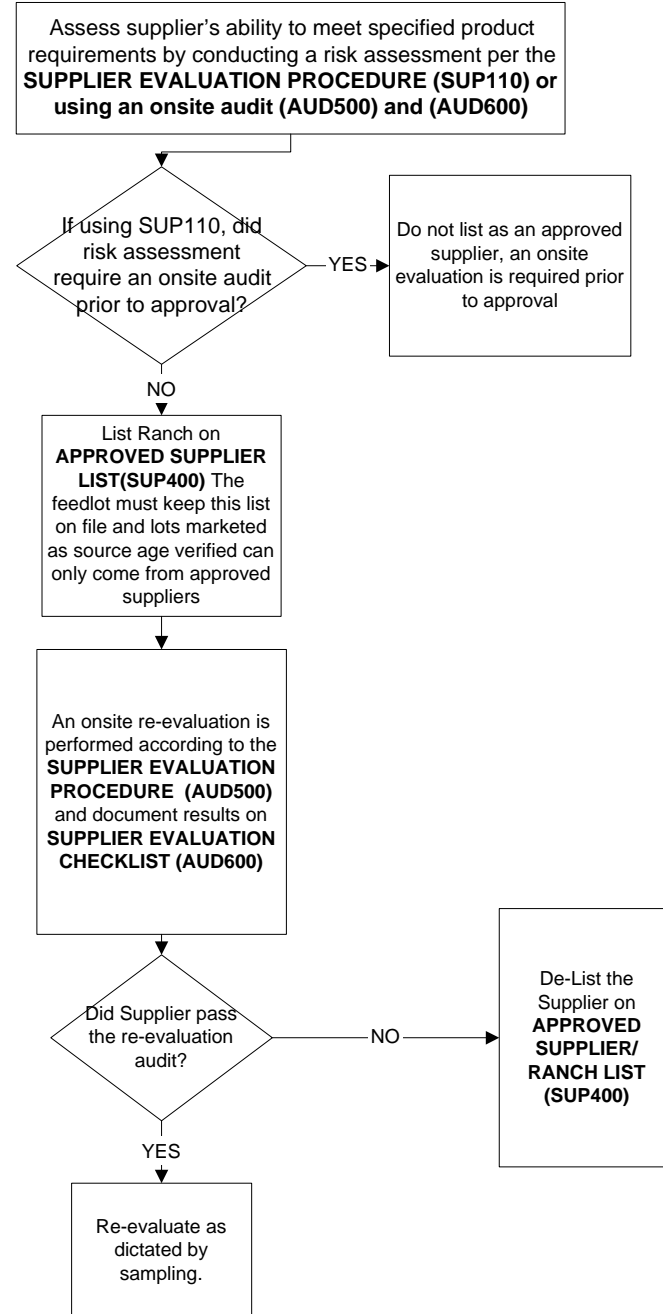


# ORIGINAL SOURCE/RANCH TRAINING AND APPROVAL PROCESS

## COMMUNICATION/TRAINING



## SUPPLIER EVALUATION AND APPROVAL



スミスフィールド社の例

# メイヤーナチュラルビーフの例



<b>MEYER NATURAL ANGUS RANCH/FARM PROFILE</b>					
<p>This first page of this document must be completed and sent to Meyer Natural Angus and kept onsite at the ranch for review during onsite evaluations. If not applicable to your operation write N/A in the blank area, do not leave it blank. <b>SEND THIS PAGE OF THE DOCUMENT TO MEYER NATURAL ANGUS.</b></p>					
Producer Name					
Operation Name					
Type of Operation (circle one)		Cow/Calf	Stocker	Finisher	Sale Barn
Address (physical and mailing)					
Phone	Fax	E-mail			
Organizational Structure ("C" Corp, LLC...)					
No. of Cows:	No. of Calves Sold (annually):	No. of Stockers Sold (annually):	No. of Finished Cattle Sold (annually)	Other:	
<p>Calving Season(s):</p> <p>____/____/____ to ____/____/____    ____/____/____ to ____/____/____</p> <p>____/____/____ to ____/____/____</p>					
<p>Method of Determining Birthdate (circle one):</p> <p>(1) Individual Animal Birthdates tied to an individual animal i.d.</p> <p>(2) Group Birthdate (use the oldest calf as the age of all in that calving window—MNA still requires individual animal identification)</p>					
<p>Cattle Identification Methods: (i.e. electronic i.d.s, visual tags, brand, etc...) describe and/or draw in detail in area below</p>					

**Producer Signature** \_\_\_\_\_

\_\_\_\_\_ **Date**

# 監視と評価

## ■ 内部監査

- 監査スタッフの訓練
  - 19011:2004 (Standard)

- 内部監査
- 内部監査スタッフの監査手順遵守
- 管理スタッフチームによる検閲

## ■ 納入企業の評価

- 監査手順
- 監査訓練
- 訓練記録
- 監査・評価チェックリスト

## ■ USDA監査・遵守 (ARC) 部門一年2回の監査