

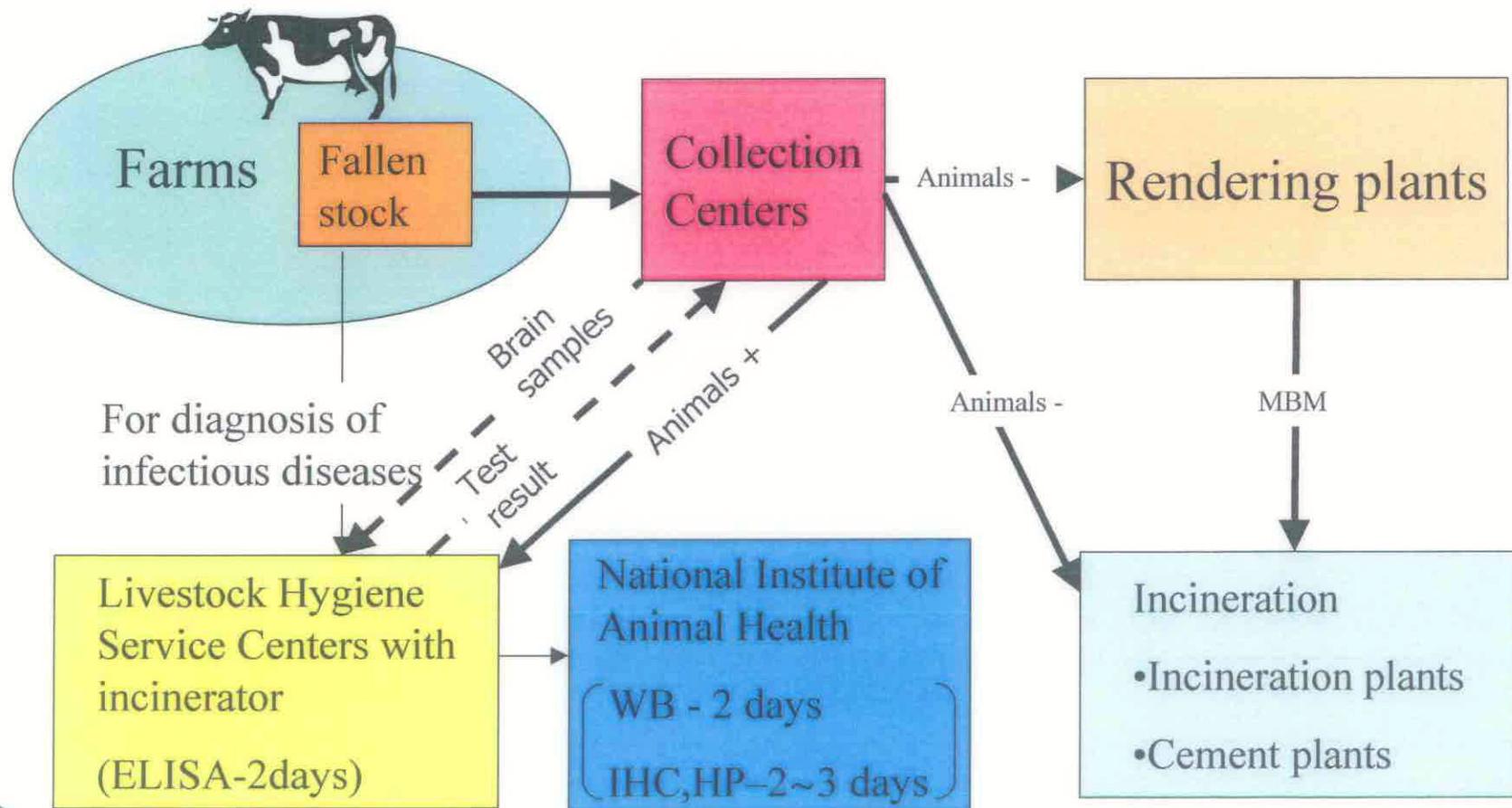
Item 3

BSE Surveillance

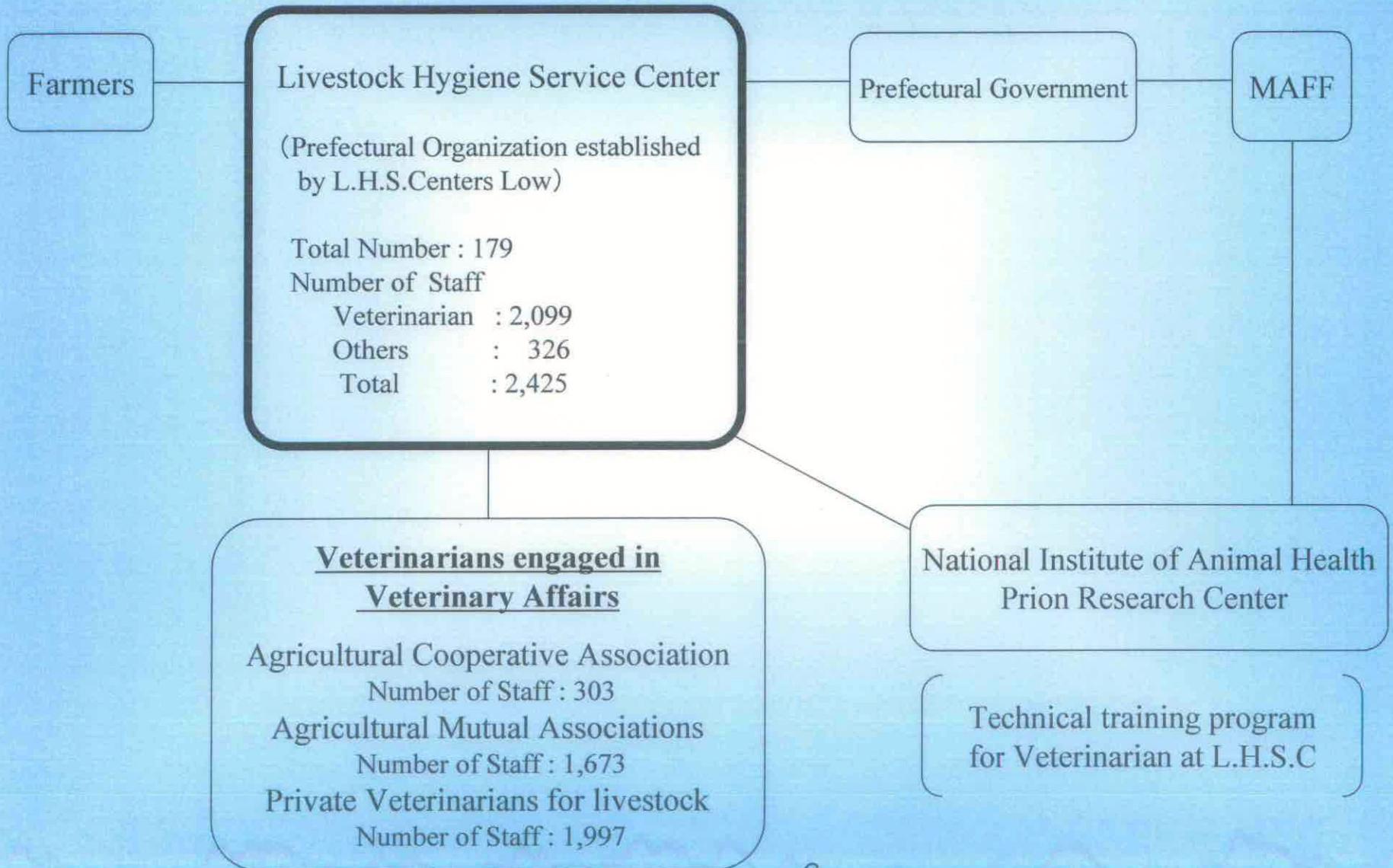
BSE Testing and Surveillance

	At Abattoirs	On Farms
Purpose	Public health	Animal health
Cattle subjected	All cattle slaughtered for human consumption	Fallen stock Cattle with central neurological signs Other cattle
Testing procedures	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Prefectural Meat Inspection Labs </div> <div style="font-size: 2em;">→</div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Quarantine Stations, National Institute of Infectious Disease </div> </div> <p style="text-align: center;">Screening with ELISA Confirmatory diagnosis using WB,IHC and/or HP</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Prefectural Livestock Hygiene Service Centers </div> <div style="font-size: 2em;">→</div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> National Institute of Animal Health </div> </div> <p style="text-align: center;">Screening with ELISA Confirmatory diagnosis using WB, IHC and/or HP</p>

BSE Surveillance on fallen stock



Prefectural Livestock Hygiene Service Center (L.H.S.C)



BSE Surveillance on farm

-Number of cattle subjected to laboratory testing from 1996 to 2003

Fiscal year	1996 /97	1997 /98	1998 /99	1999 /00	2000 /01	2001 /02	2002 /03	2003 /04
CNS – suspects	23	20	36	36	24	132 (1)	420	3,248 (1) (provisional)
Fallen stock	194	203	210	237	227	801	3,755	44,897 (provisional)
BSE case cohort						236	139	266
Total	217	223	246	273	251	1,169 (1)	4,314	48,411 (1) (provisional)

Note: The figures in parentheses are the number of BSE positive cattle.

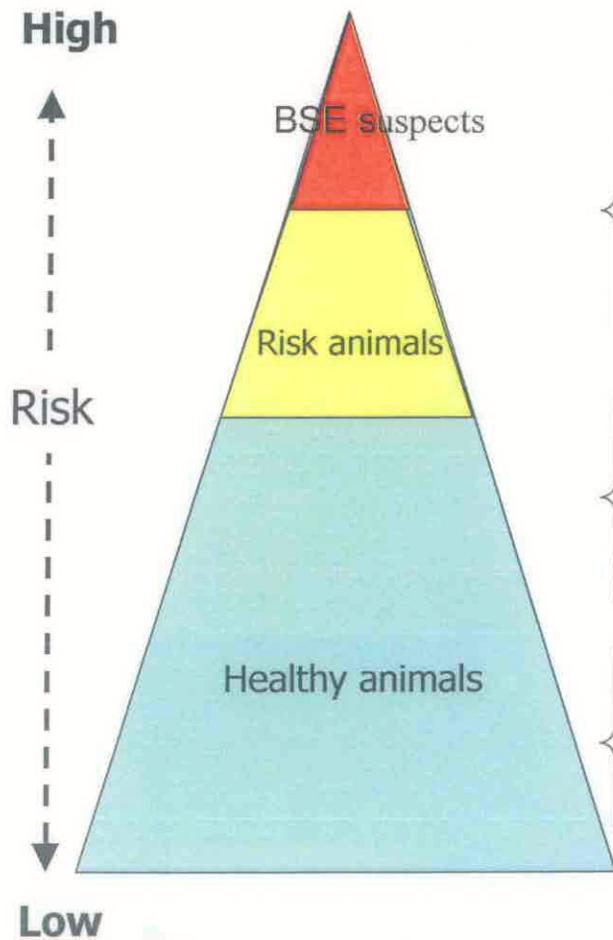
BSE Testing at Abattoirs (FY2001-FY2003)

		Fiscal year			Total
		2001(*)	2002	2003	
Cattle with clinical signs		1,851	2,973(3)	6,263(1)	11,087(4)
Cattle without clinical signs	Cattle >= 30 months	215,548(2)	517,767(1)	494,987	1,228,302(3)
	Cattle < 30 months	306,192	733,071	751,376(2)	1,790,639(2)
Total		523,591(2)	1,253,811(4)	1,252,626(3)	3,030,028(9)

Note:1(*) BSE testing at Abattoirs started on Oct.18,2001.

2 The figures in parentheses are the number of BSE positive cattle.

Results of BSE surveillance



		Place of sample collect	Number of cattle tested (positive)		
			FY2001	FY2002	FY2003
CNS-suspects		Livestock Hygiene Service Center	132(1)	420	3,248 (provisional)
BSE case cohort		Livestock Hygiene Service Center	236	139	266
Fallen stock (>= 24 months)		Collection Centers et al	801	3,755	44,897(1) (provisional)
Cattle with clinical signs		Abattoirs	1,851	2,973(3)	6,263(1)
Others	>= 30 months	Abattoirs	215,548(2)	517,767(1)	494,987
	< 30 months	Abattoirs	306,192	733,071	751,376(2)

Item4

Feed Ban

Principle of feed ban

- Prohibition of use of possible **prion** carrier as feed (for ruminants)

MBM, Animal fat, Fish meal etc

- Isolation of Ruminant feed from other feed

Ruminant feed: not contain animal protein as ingredients

Animal protein : Protein derived from animal products except egg and milk

Law Concerning Safety Assurance and Quality Improvement of Feed

- **Purpose** Securing the Public Safety and Stabilizing Production of Livestock by Regulating Manufacturing of Feed and Feed Additives
- **Animals** Fowl, Swine, Ruminants, Bee, Fish
- **Subject** Feed and Feed Additives
- **Category of Business**
Manufacturer, Importer, Dealer, Farmer
- **Methods of Administration**
Specification and Standard (Quality, Manufacturing and Utilization), Examination, Inspection

Prohibition of MBM for Feed

- 1996 Apr. Guidance
Prohibition of MBM use for ruminant feed
- 2001 Sep. Ministerial Ordinance
Prohibition of MBM use for ruminant feed
- 2001 Oct. Ministerial Ordinance
Prohibition of MBM use for animal feed
- 2001 Nov. Ministerial Ordinance
Removal of Chicken meal from feed ban
(except for ruminant feed)

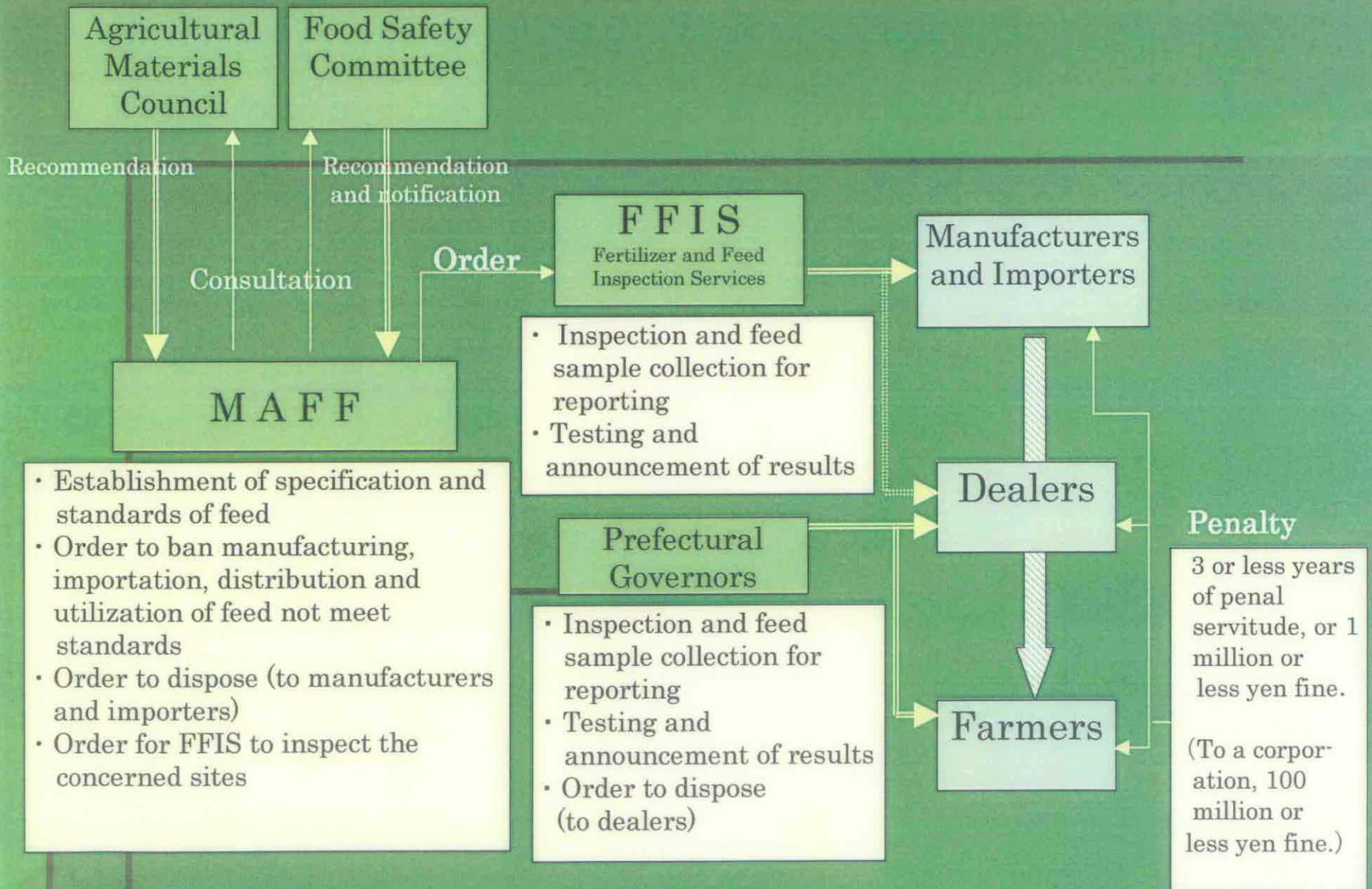
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Current Situation of Feed Ban

Materials	Origin	Feed for:			
		Ruminant	Swine	Fowl	Fish
Milk, Egg, Gelatin, etc	All	○	○	○	○
Fish meal	Fish	×	○	○	○
Plasma, Blood meal	Bovine	×	×	×	×
	Swine, Horse	×	○	○	○
	Fowl	×	○	○	○
MBM, Bone meal	All	×	×	×	×
Chicken feather meal	Fowl	×	○	○	○
Food recycled meal	All	×	○	○	×
Bone ash		○	○	○	○

System of Administration for Feed



Specification and Standard of Ruminant Feed (related to BSE)

Specification

- Exclusion of Animal protein from ruminant feed

Manufacturing Standard

- Forbidden to use animal protein for ruminant feed
- Isolation of ruminant feed manufacturing facilities

Utilization Standard

- Forbidden to use animal protein as ruminant feed

Storage Standard

- Isolated storage of ruminant feed

Labeling Standard

- Labeled by Feed name, Manufacturer, Target animals, Attention of usage and storage, etc

Guideline for Isolation of Ruminant Feed (June 2003)

- Isolation of Ruminant feed
 - handling **places**
 - manufacturing and storage **facilities**
 - transport **vehicles** etc
- Cleaning of manufacturing and storage facilities of Ruminant feed by validated manner
- Equipment of Isolation SOP manual at manufacturer

Inspection (FY2002)

FFIS (Fertilizer and Feed Inspection Services)

Organization

- 6 office
- 70 person of Feed Inspector

Inspection ():number of violation related to animal protein

- 667 (1) sites of feed manufacture etc
- 1618 (1) sample of feed and feed additives
- 6932 (1) items of feed contaminants etc

Detection of MBM Contamination

Method	Detection	Feed	Sensitivity %
Microscopic Identification	Mammalian bone	Commercial Feed	About 0.3
ELISA	Specific protein	Commercial Feed (Depend on Products) Feed ingredients	< 1.0 depend on species
PCR	Specific DNA	Commercial Feed (Depend on Products) Feed ingredients	0.1 ~ 0.01

Detail of Inspection Results

Sample	Number	Item	Number
Commercial Feed	11	Feed additive	11
		Mycotoxine	1
Hay	3	Pesticides	6
Fish meal	11	Feed additive	3
		Heavy metal	7
		Animal protein	1
Chicken meal	1	Feed additive	1
Animal fat	3	Feed additive	2
		Impurity	2