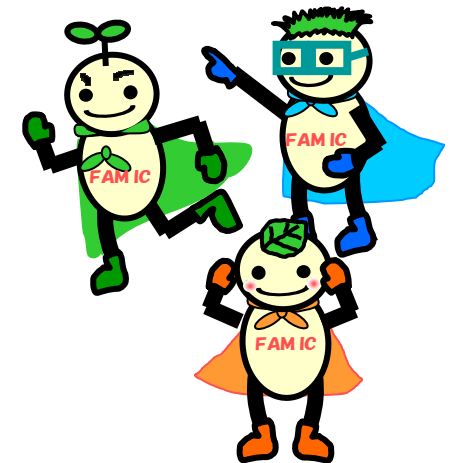


~ Key note presentation ~

Feed Safety Analysis

Part I Inspection and Sampling Method

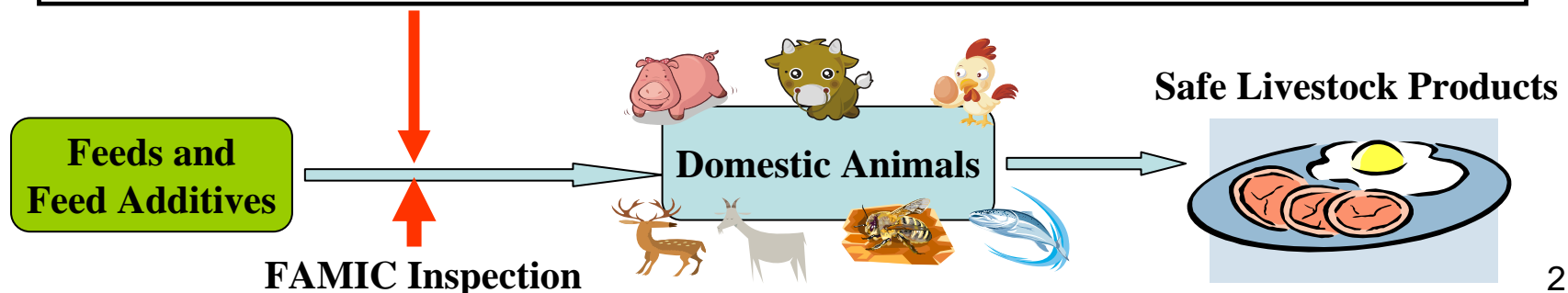


Yukinobu NAKAMURA, FAMIC

Feed Safety Law

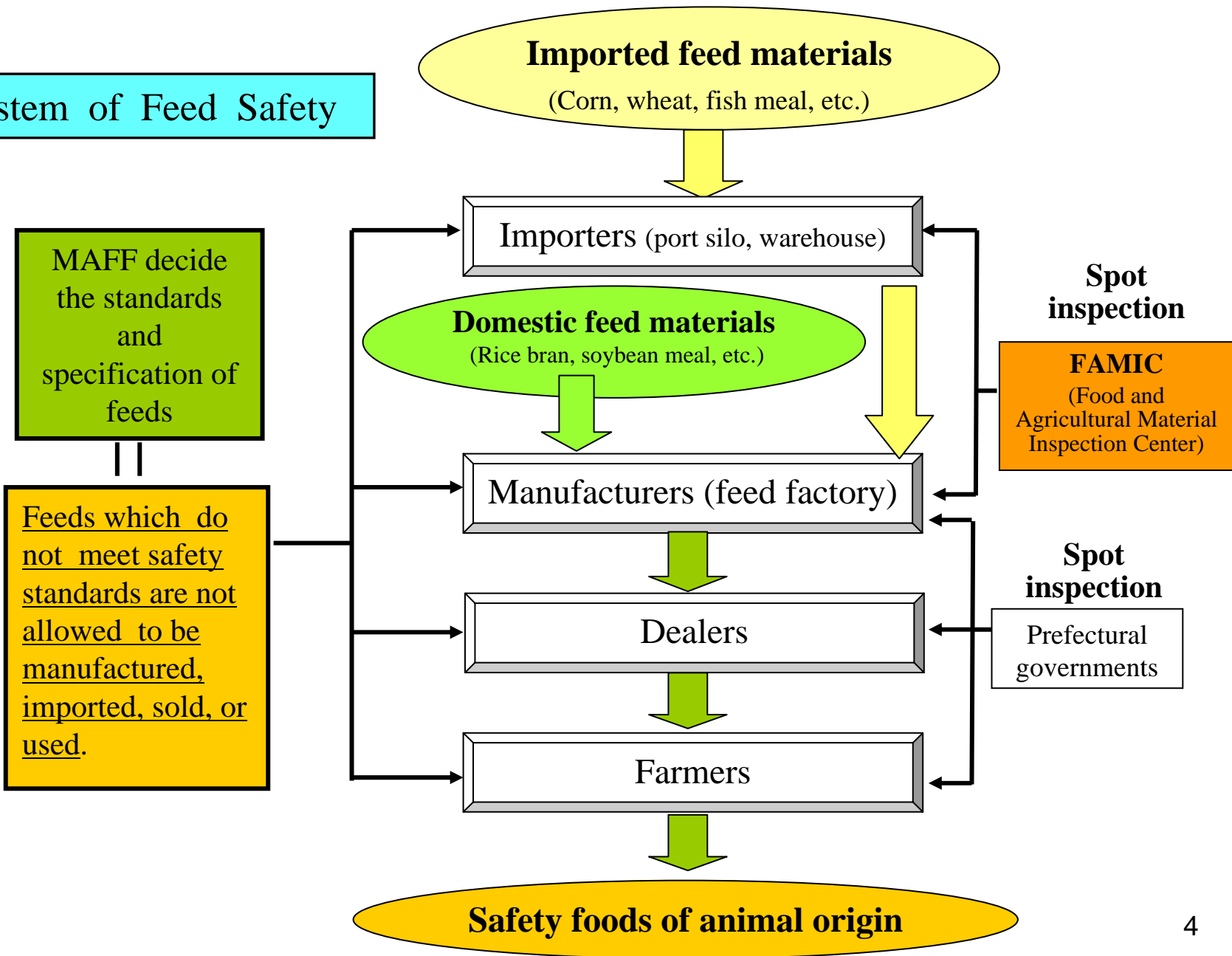
In order to ensure the safety of feeds,
the MAFF of Japan implemented the following in accordance
with the “Law Concerning Safety Assurance and Quality
Improvement of Feeds” (Feed Safety Law) and any regulations

- Maximum limits for pesticide residues, heavy metals and mycotoxins
- Import ban of Non-approved GMO
- Feed regulation for BSE prevention



Outline of Spot Inspection

System of Feed Safety



Feeds Inspection

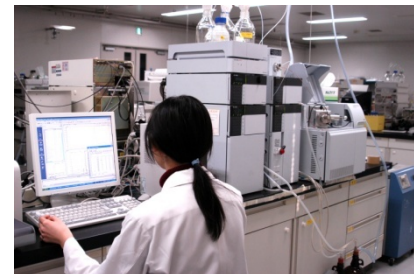
1 .Spot Inspection

- Check account books and production facilities
- Sampling of feeds



2 .Analysis

- pesticide residues, heavy metals ,mycotoxins
- animal protein
etc



How to do Sampling of Feeds

Sampling Method

- Official Sampling Method must be used .
- Codex recommend to use international method
- Japanese sampling method of feed is based on ISO (international standard).

ISO 3082:Sampling and Sampling preparation procedure

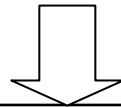
ISO 6497:Animal feeding stuffs-Sampling

Technical Terms

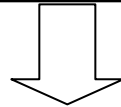
- **Increment:** a quantity taken at one scoop from a single point in a lot
- **bulk sample:** a quantity by mixing all the increments taken from the same lot
(Sample of primary sampling)
- **reduced sample:** a representative part of the bulk sample after reduction
(Sample of secondary sampling :laboratory sample)

Sampling Scheme

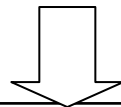
Make sure the number of packages in the same lot



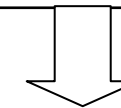
Select packages at random



Sample the bulk sample by using increment scoop



Sample the reduced sample by using increment scoop



Laboratory sample for analysis

Important Point

(1) To make up representative sample
(randomly sampling)

(2) To use different method for each particle
size or each package type of feeds .

(3) Necessary to have training and experience
for the sampling of feed.

Package Type

- Paper Bag



- Flexible Container Bag



Particle Type of Feeds

- flour



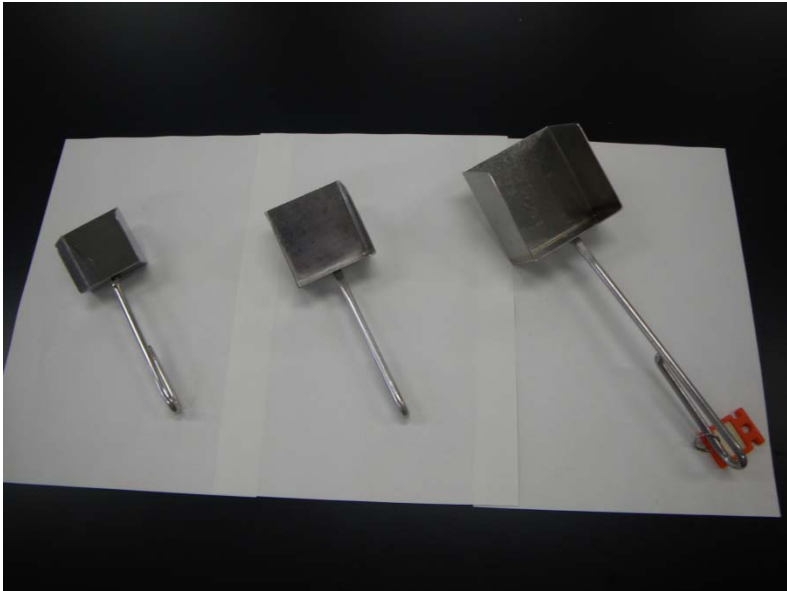
- pellet



- flake



Scoop for Increment



Maximum Particle Size of Feed	Type of Scoop for Increment
10 millimeter	No.10
15 millimeter	No.15
20 millimeter	No.20
30 millimeter	No.30

Sampling for the Packed Feed of Paper Bag (for bulk sample)

① Check the same lot number at the stock room

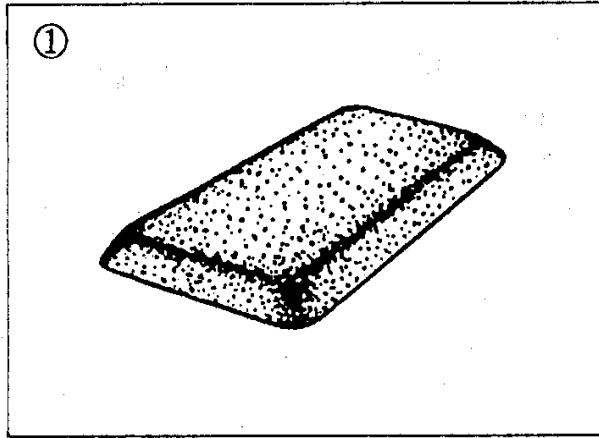


② 5 backs take out in at random

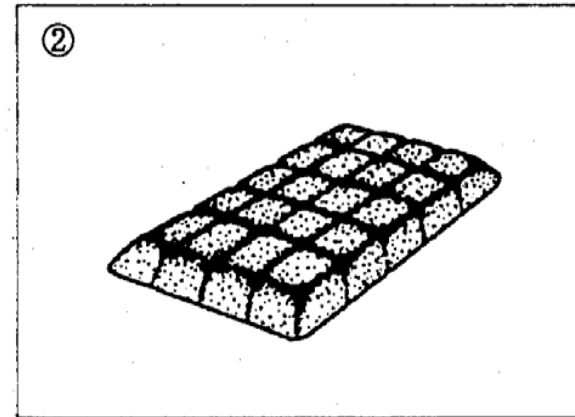


③ Open the packages

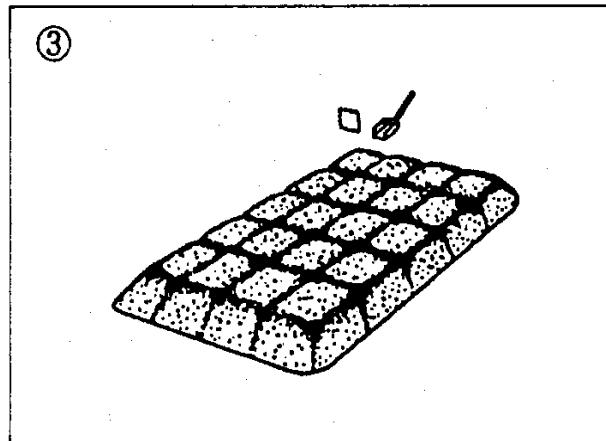




① a sample in a rectangle of thickness.



② divide into 12-20 divisions



③ using the scoop, extract from each divisions

○ These sampling procedures must be repeated five times.

○ The sampling procedure of reduced sample is the same as the sampling procedure of bulk sample.

Sampling for Flexible Container Bag (for bulk sample)



Thank you for your listening

