



Country Presentation FMD Situation and its Prevention & Control China

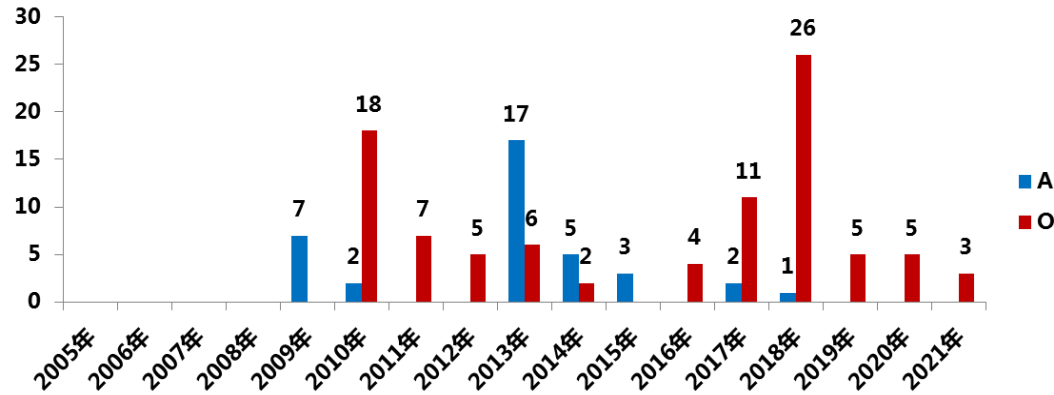
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FMD situation in 2021

• Temporal and Spatial distribution



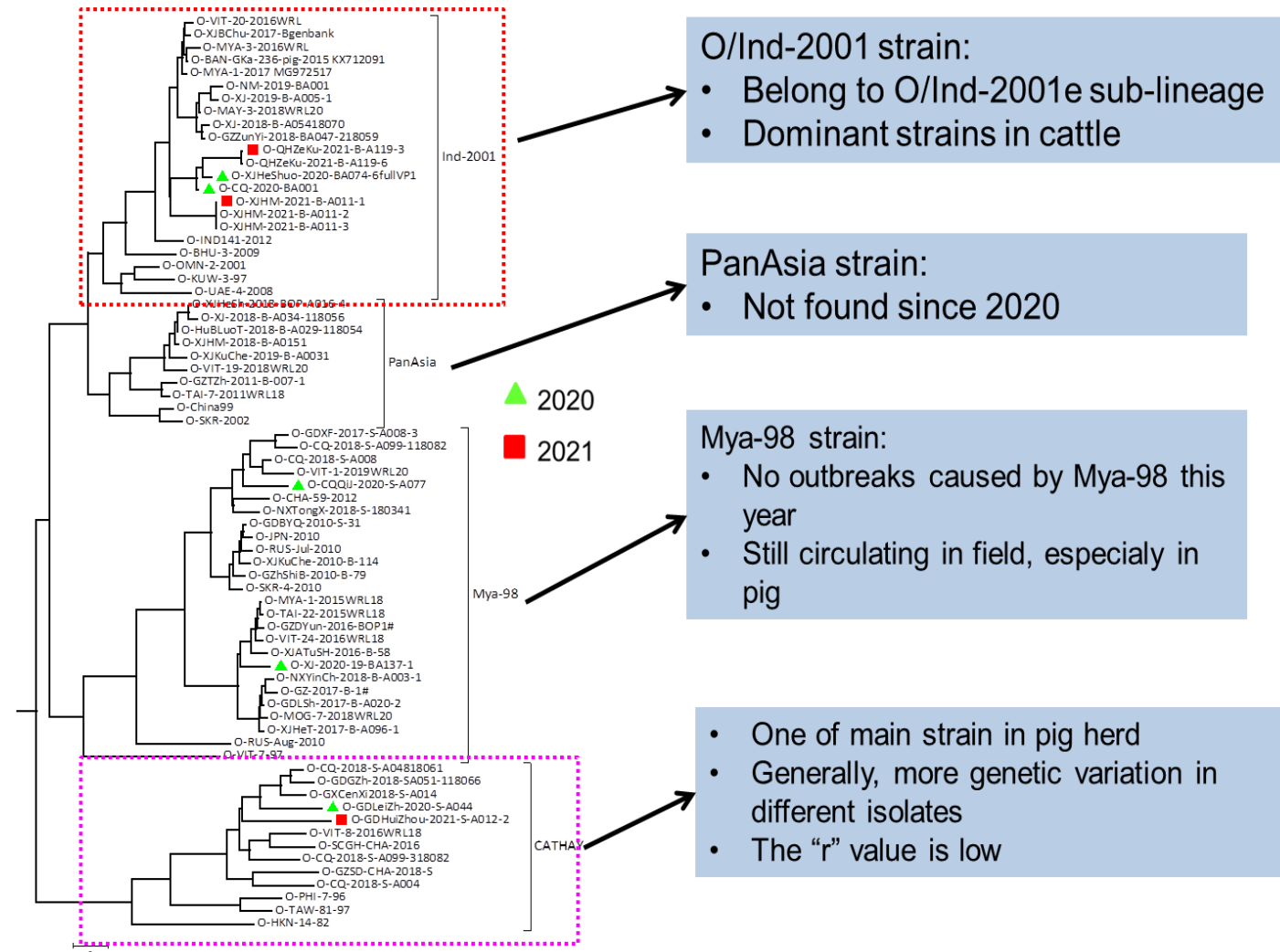
• Details of FMD outbreaks in China in 2021

Report Date	Type	Species	Susceptible	Cases	Deaths	Destory	Location	Province	Strain
29/01	O	Cattle	52	37	0	52	Hami, Xinjiang	XINJIANG	Ind-2001
22/03	O	Pig	33	4	0	33	Huizhou	GUANGDONG	CATHAY
31/10	O	Cattle	41	40	0	41	Zeku, Qinghai	QINGHAI	Ind-2001

FMD situation in 2021

• Epidemiological studies

- Type A is not detected since 2019
- Number of clinical cases is decreasing
- O/Ind-2001 is still mainly circulating
- Multiple strains (O/Ind-2001, O/Mya-98, O/CATHAY and A/Sea-97) are circulating
- A/Sea-97 strain detected in 2021 in active surveillance on the southwest border



Key FMD Prevention and Control strategies

- The Activities in 2021

- Vaccination and PVM

Animal	Serum	Up to standard	Qualification rate
Pig	926807	815878	88.03%
Cattle	552242	499220	90.40%
Sheep/Goat	626681	546373	87.19%
total	2105730	1861471	88.40%

农业农村部关于印发《2021年国家动物疫病强制免疫计划》的通知

发布时间：2021年01月11日 字体：[大 中 小]

各省、自治区、直辖市及计划单列市农业农村(农牧、畜牧兽医)厅(局、委),新疆生产建设兵团农业农村(农牧、畜牧兽医)局,部属有关事业单位:

为切实做好2021年全国动物疫病强制免疫工作,根据《中华人民共和国动物防疫法》规定,结合当前动物防疫实际,我部组织制定了《2021年国家动物疫病强制免疫计划》。现印发你们,请遵照执行。

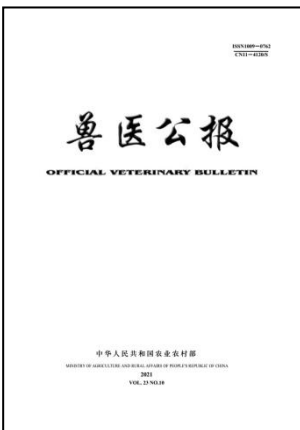
农业农村部
2021年1月6日

2021年国家动物疫病强制免疫计划

及要求

感、口蹄疫、小反刍兽疫、布鲁氏菌病、包虫病。

感、口蹄疫、小反刍兽疫、布鲁氏菌病、包虫病的群体免疫密度应常年保持在90%以上,其中应免畜免疫密度应达性禽流感、口蹄疫和小反刍兽疫免疫抗体合格率应常年保持在70%以上。



- Vaccine matching and animal challenge test

Field isolate	Lineage	Animal	Vaccine strain	Vaccine strain
			O/BY/2010	Re-O
2021-008	Mya-98	pig	N	M
2021-A011	Ind-2001	cattle	M	M
2021-A052	CATHAY	pig	M	M
2021-021	CATHAY	pig	N	nd
2020-A136	Ind-2001	cattle	M	M

Name of Vaccine strain	Name of Challenge strain	Result
Re-O (vaccine strain)	O/Mya-98 (O/2021008)	10/10 protective
Re-O/17002 (alternative vaccine strain)		9/(10-1) protective



Key FMD Prevention and Control strategies

- The Activities in 2021

- Surveillance

FMDRL participates in the national surveillance,

- ✓ Sampling and testing in pig slaughterhouses from 12 provinces
- ✓ FMD surveillance in northeast of China
- ✓ FMD surveillance in northwest of China
- ✓ FMD surveillance around border areas in southwest of China
- ✓ Routine monitoring in FMD free zone with vaccination

- Training

- ✓ One international training on TADs
- ✓ 2 time nationwide training
- ✓ 14 times local training

- PTS-2021

- ✓ FMDV typing QRT-PCR
- ✓ 35 laboratories invited



农业农村部文件

农牧发〔2021〕11号

农业农村部关于印发《国家动物疫病监测与流行病学调查计划(2021—2025年)》的通知

各省、自治区、直辖市及计划单列市农业农村(农牧、畜牧兽医)厅(局、委),新疆生产建设兵团农业农村局,部属有关事业单位,各有关单位:

为做好非洲猪瘟等动物疫病防控,持续加强监测和流行病学调查工作,我部组织制定了《国家动物疫病监测与流行病学调查计划(2021—2025年)》,现印发你们,请遵照执行。

农业农村部
2021年4月13日

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Key FMD Prevention and Control strategies

- Key activities planned in 2022
 - Diagnosis and analysis on FMDV
 - Compulsory vaccination
 - ✓ vaccination against FMD type O and/or A for all cattle, sheep, camels and deer
 - ✓ vaccinated with type O FMD for all pigs, and type A FMD based on the risk evaluation results
 - ✓ Pushing the policy of “vaccinate first, pay later”
- Surveillance and PVM
- Prevention and control by regions
- Control jointly with other major animal diseases(ASF, LSD...)

农业农村部关于印发《国家动物疫病强制免疫指导意见（2022—2025年）》的通知

发布时间：2022年01月07日

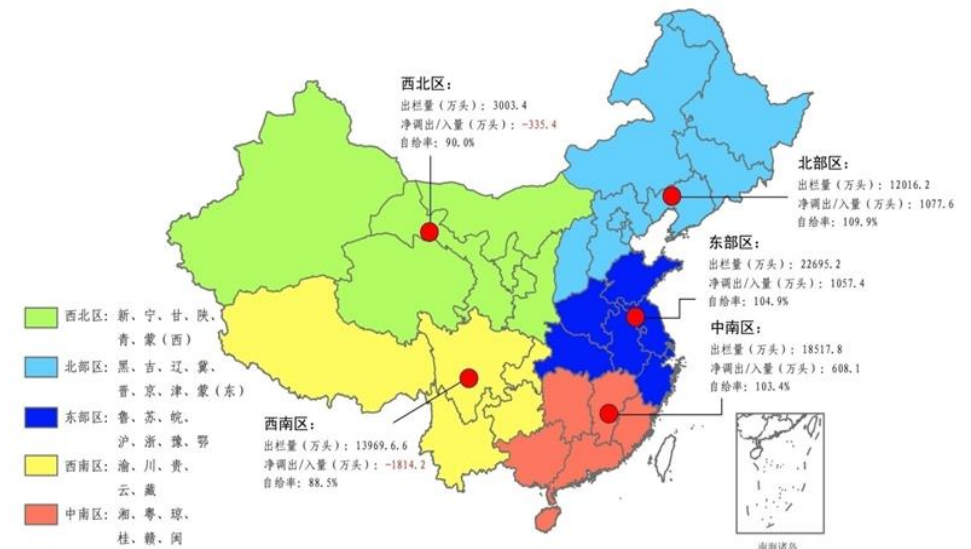
字体：[大 中 小]

各省、自治区、直辖市及计划单列市农业农村(农牧)、畜牧兽医厅(局、委),新疆生产建设兵团农业农村局,部属有关事业单位:

为切实做好全国动物疫病强制免疫工作,根据《中华人民共和国动物防疫法》规定,结合当前动物防疫实际,我部制定了《国家动物疫病强制免疫指导意见(2022—2025年)》。现印发你们,请遵照执行。

农业农村部

2022年1月4日



Main challenges and recommended solution

- Complex FMDV epidemic strains ← epidemiological studies and differential diagnosis
- Long-distance transport of animals ← prevention and control by regions
- Immune “short board” (especially in backyard) ← booster immunization
- Risk of introduction of foreign FMDV strains ← a collaborative response for control
- Pork prices falling-prevention and control costs may be reduced ← strengthen publicity
- Local veterinary teams are poor ← training; policy and financial support
- The impact of COVID-19 ← work together: one world, one health



Thank You