AHS Surveillance And Experience in Possible Detection of (AHS) Competent Vector in Indonesia

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AHS Surveillance

AHS Awareness

- Target: Local veterinary officers, central veterinary officers, Lab diagnostic staff, Communities
- Circular letter sent to
  - Animal Quarantine
  - Sub National
  - Disease investigation centers
  - Research Center for Veterinary Sciences (BBLITVET)
  - Related communities and association

AHS Awareness

- Report to ISIKHNAS (National Animal Health Information System)
- Using Priority report format
- Symptom Code: MBK (**M**ata merah dan **B**engkak pada **K**uda = Red and Swollen eyes in Equine)

Laboratory Capacity

- Curently ready
  - Research Center for Veterinary Sciences (BBLITVET)
    - ELISA
    - PCR
  - Disease Investigation Center Subang (BVet Subang)
    - ELISA

Detection of (Possible AHS) Competent Vector in Indonesia

Occurrence of Culicoides Latreille (Diptera: Ceratopogonidae) Collected from a Layer Farm in Yogyakarta

Article in International Journal of Poultry Science · May 2018
DOI: 10.3923/ijps.2018.248.254

5 authors, including:

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J Sain Vet, vol XVIII No.1 dan 2, 2000:31-36

DISTRIBUSI DAN IDENTIFIKASI SPESIES-SPESIES *Culicoides* (Diptera : Ceratopogonidae) DI KABUPATEN BOGOR

Ana Sahara[1], Malole[2], Koesharto[3], Sendow[4], Sukarsih[5]

Abstrak

Telah diteliti distribusi dan identifikasi spesies-spesies *Culicoides* yang ada di sekitar kandang ternak sapi di Kabupaten Bogor. Penelitian ini ditujukan untuk mengetahui spesies-spesies *Culicoides* yang mempunyai peranan dalam penyebaran penyakit *bluetongue* pada ternak. Sebanyak 2117 ekor *Culicoides* (Diptera: Ceratopogonidae) dikumpulkan dari kandang ternak sapi di wilayah Depok dan Cibungbulang, Kabupaten Bogor dengan menggunakan perangkap serangga *Pirbright-type miniatur light trap*. Identifikasi spesies dilakukan berdasarkan karakter morfologi menurut Wirth dan Hubert. Hasil penelitian menunjukkan bahwa *Culicoides* lebih banyak ditemukan di wilayah Depok daripada di Cibungbulang. Ada empat belas spesies dari kedua

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Accredited by Ristekdikti

Identification and Distribution of Species Culicoides spp. (Diptera: Ceratopogonidae) of Broiler in Banda Aceh

Rusli Rusli, Muhammad Hanafiah

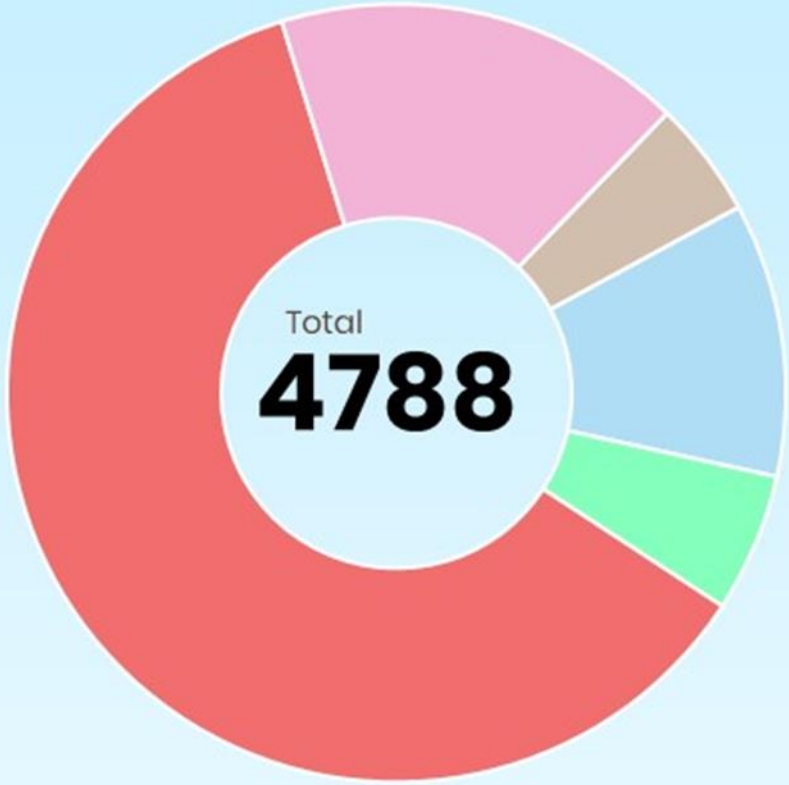
Abstract

A research has been done to identify the distribution of Culicoides species in Banda Aceh. Culicoides samples were collected by using modified Center for Disease Control (CDC) Miniatur Light Trap. All Culicoides samples has choice a small measured, were identified morfologically. The result showed that the number species Culicoides has caught in Ulee Kareng are: C. huffi, C. arakawae and C. shultzei, whereas in Alue Naga are C. huffi and C. shultzei. The distribution of species Culicoides in Ulee Kareng are: C. huffi has 22, C. arakawae 13 and C. shultzei 11. The average distribution of Culicoides in Alue Naga are C. huffi has 11 and C. shultzei has 4 .

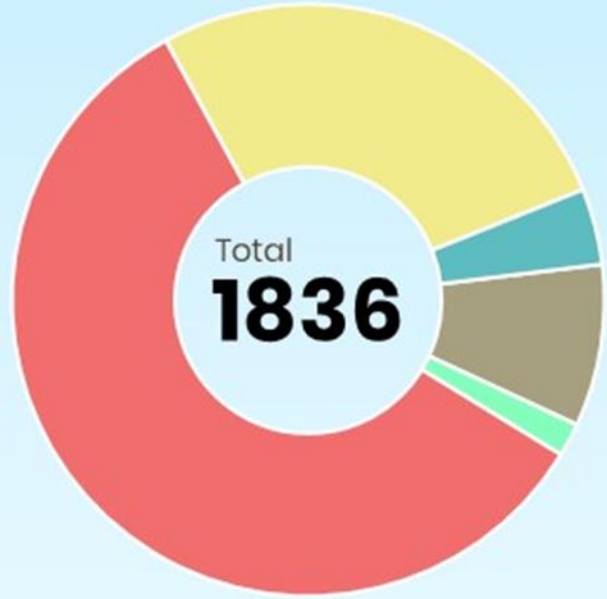
Keywords

STUDI CULICOIDES DI INDONESIA

Sebanyak 35 spesies Culicoides diidentifkasi di tiga wiliayah di Indonesia



Waingapu



Lombok

Sumba Besar

- *C. peregrinus*
- *C. oxystoma*
- *Trithecoides kuning*
- *Trithecoides coklat*
- *C. fulvus*
- *C. nudipalpis*
- *C. geminus*
- *C. brevitarsis*
- *C. brevipalpis*

Entomologi – Kedokteran Tropis UGM

Sumber : April Hari Wardhana

Wardhana24id@yahoo.com

Vector Surveillance Indonesia: Equine Disease Free Zone - 2018

- Indonesia host the ASEAN Games 2018
- Venue: Pulomas , Jakarta
- Event: Horse competition
- Disease Free Zone: Jakarta Province
- Target: surra, Japanese encephalitis, West Nile fever, anasplasmosis, babesiosis and theileriosis

Result

- As Part of EDFZ surveillance program, the Government of Indonesia and the Provincial Government of DKI Jakarta implement vector surveillance in the venue used for horse competition
- The Department of Parasitology and Medical Entomology of the Veterinary Faculty, Bogor Agricultural University, carried out a vector survey in October 2017 which included also some of the locations of work horses in DKI Jakarta.
- Longitudinal study was carried out during January to April 2018 with catching operations twice monthly.
  - The key findings
  - No ticks and no bats present on the venue during both surveys.
  - Flies, mosquitos and biting insects were found mainly in areas at the time occupied by workers and in stagnant water and flower pots.
  - Few insects were found in the (empty) stable area.
- Based on the findings of the survey a vector control programme was elaborated, using insecticides known to be effective against the identified insects and that are registered in Indonesia. The control programme also includes a rodent control programme and regular inspection of the stable areas for bats.

Potential Vector in Equistrian Diseases Free Zone, Jakarta International Equistrian Park Pulomas Indonesia

Upik Kesumawati Hadi[1], Susi Soviana[1], Sugiarto[2], Isna Lailatur Rohmah[1], Fahmi Khairi[1]

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[2]Vector Control Subdirectorat, Vector Borne and Zoonotic Diseases Control Directorate, Ministry of Health Republic Indonesia, Jl. Percetakan Negara No. 29, Jakarta Pusat
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Keywords: EDFZ, Jakarta, Mosquito, Potential Vector.

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https://core.ac.uk/reader/297910282

Table 1. Mosquito hour densities during surveillance from January to April 2018 in core zone EDFZ Equestrian Venue Asian Games 2018 Pulomas-Jakarta

Surveillance periode	*Culex quinquefasciatus*		*Culex tritaeniorhynchus*		*Aedes aegypti*		Vector Standard Value
	No.	MHD	No.	MHD	No.	MHD	Low<0.025
20-27 Jan 18	44	0.37	9	0.08	257	2.14	High>0.025
10-11Feb 18	137	1.14	31	0.26	206	1.72	(Permenkes No
24-25 Feb 18	56	0.47	15	0.13	134	1.12	70, 2016)
10-11Mar 18	189	1.58	0	0	20	0.17	
24-25Mar 18	73	0.61	0	0	14	0.12	
7-8 Apr 18	70	0.58	0	0	10	0.08	
21-22 Apr 18	260	2.17	0	0	7	0.06	

Note: MHD is mosquito hour density

Potential Vector in Equistrian Diseases Free Zone, Jakarta International Equistrian Park Pulomas Indonesia

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Tabel 2. Rate of mosquito larval density during surveillance from January to April 2018 in core zone of EDFZ Equestrian Venue Asian Games 2018 Pulomas-Jakarta

Location	Rate of mosquito larval densitiy.	Larval Species	Vector standard value
Lakes (46 sites)	0.0	*Dragonflies nymph* -	Breeding places index:
Water Dispensers (indoor)	5.3	*Ae. aegypti*	Low = 0
Bathroom (changing room)	8.6	*Cx. quinquefasciatus*	High > 1
Temporary bathroom	71.4	*Cx. quinqefasciatus & Ae. aegypti*	(Permenkes No. 70 Tahun 2016)
Flower pots (near tribun)	24.3	*Ae. aegypti*	
Stagnant water (back area)	5.7	*Cx. quinqefasciatus*	
Stagnat water (front area)	0.1	*Armigeres*	
Bromeliad plants	21.4	*Ae. aegypti*	
Control tank (near tribun)	28.6	*Cx. quinqefasciatus*	
Stagnant Water Under The Fountain	14.3	*Cx. quinqefasciatus & Ae. aegypti*	

Thank you

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