

**PENGENALAN ISTILAH
HAMA PADA BIDANG
PERTANIAN**

HAMA

Anthropocentric:

Rayap yang memakan kayu di hutan sangat bermanfaat secara ekologis sebagai pengurai dan tersedianya unsur hara tanah.

Rayap yang memakan kayu bangunan rumah kita disebut hama karena sangat merugikan yaitu menghancurkan bangunan rumah.

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**Pengertian Hama secara Umum
(Organisme vs Status)**

HAMA?

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**Pengertian Hama secara Umum
(Organisme vs Status)**

Makroorganisme

Makroorganisme

Hewan

Serangga

Iguana

Nematoda?

Burung

Kodok

Tikus

Ikan

Landak

Kera

Babi

Monyet

Bajing

Siput

Kelelawar

Keong

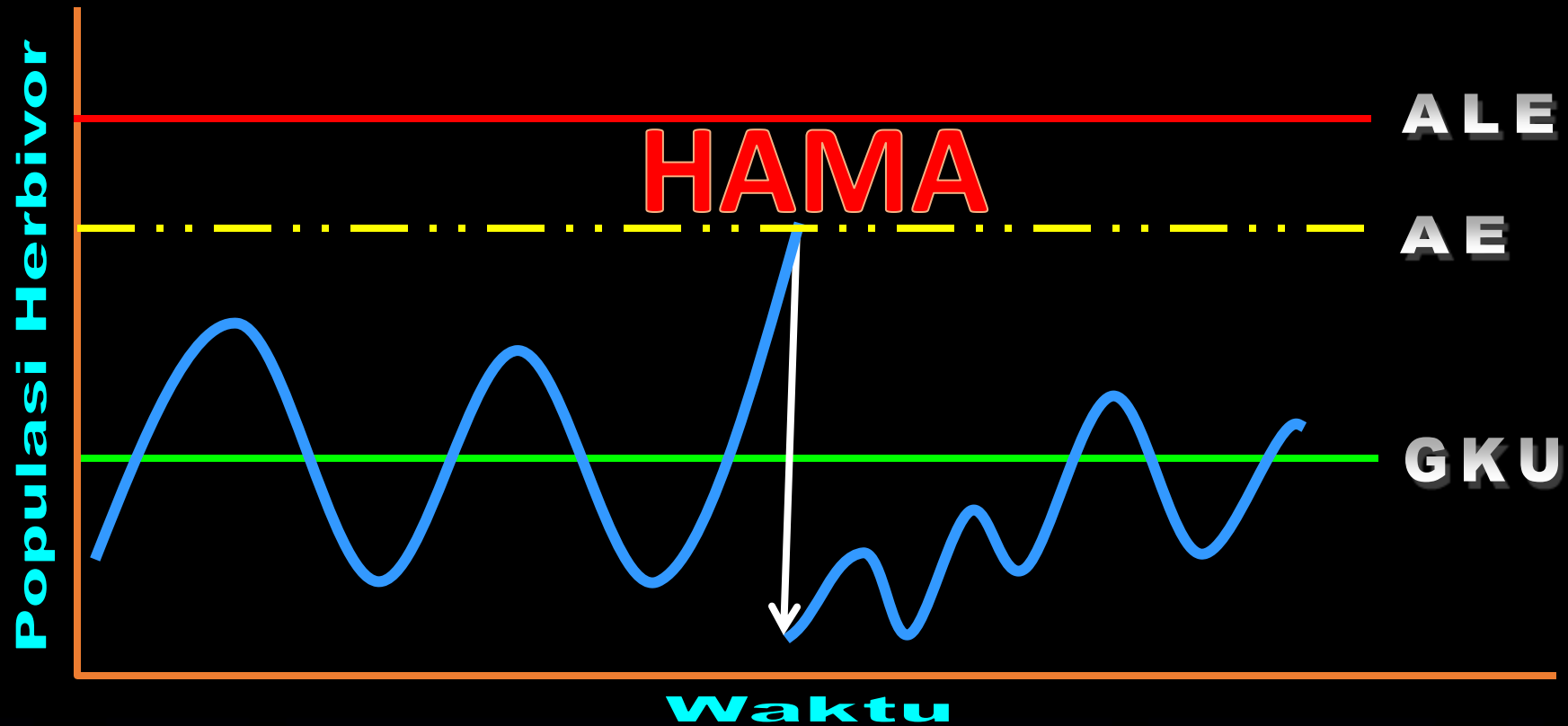
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**Pengertian Hama secara Umum
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Ekonomi

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**Pengertian Hama secara Umum
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**Langsung
Tidak Langsung**

Langsung



Tidak Langsung

Ekologi

- Sumber Daya Alam (Keanekaragaman Hayati)
- Sektor Pariwisata



Ekonomi

Tidak Langsung



Koi carp. Grow to 75 cm



Rudd. Grow to 25 cm



Catfish. Grow to 30 cm

Some species such as koi carp, rudd, and catfish can degrade water quality by increasing turbidity, siltation, nutrient loads and algal concentrations.

Tidak Langsung

It is illegal to liberate **any** aquatic life (includes native and introduced fish, plants, and invertebrates) to a waterbody where it doesn't already exist. People caught liberating species without a permit from the Minister of Conservation are liable to a \$5000 fine under the Conservation Act 1987.

In addition, koi carp and *Gambusia* are classified as Unwanted Organisms under the Biosecurity Act 1993. People caught releasing, spreading, selling, or breeding them are liable for a fine of \$100,000, or 5 years imprisonment.

Koi carp, and rudd (outside the Auckland/Waikato Fish and Game region) are classified as noxious species under the Freshwater Fisheries Regulations 1983. A fine of \$5000 can be given to people who possess, have under control, rear, raise or consign these species.

Tidak Langsung

Solenopsis invicta

Biological threats

Impact on community way of life

Country of origin → New World [Taber, 2000]

Host range → *Abelmoschus esculentus* (okra), *Arachis hypogaea* (groundnut), *Citrullus lanatus* (watermelon), *Fragaria ananassa* (strawberry), *Glycine max* (soyabean), *Ipomoea batatas* (sweet potato), *Sorghum bicolor* (sorghum), and *Zea mays* (maize)
[Golden & Ellington, 1972]

Introduce to Indonesia → currently is not exist [Cabi 2007]

Tidak Langsung

Solenopsis invicta







Status Hama pada Perlindungan Tanaman

Hama Primer

Hama Sekunder

Hama Saat-saat Tertentu

Status

naman



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Status Hama pada Karantina Pertanian

OPT

OPTP

OPTK

OPTK A1

OPTK A2

OPTK A1/A2 Golongan 1 atau Golongan 2

Status Hama pada Karantina Pertanian OPT



ICAR-National Bureau of Agricultural Insect Resources.
<http://www.nbair.res.in/insectpests/Plutella-xylostella.php>

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Status Hama pada Karantina Pertanian OPTK



Status Hama pada Karantina Pertanian

OPTK A1



Status Hama pada Karantina Pertanian

OPTK A2



Identifikasi Peran Makroorganisme



a



b



c

Identifikasi Peran Makroorganisme



Microchiroptera ⇒ Ekolokasi

- Mata kecil
- Tragus



Megachiroptera ⇒ Tanpa Ekolokasi

- Mata lebar
- Hidung besar "Moncong"

Identifikasi Peran Makroorganisme



a



b



c

Identifikasi Peran Makroorganisme



Identifikasi Peran Makroorganisme



Identifikasi Peran Makroorganisme



Identifikasi Peran Makroorganisme



a



b



c



TERIMA KASIH