
EXPERIMENT 4 AR AWPKEUNA HMUN LEH HMANRUA TE TIHTIANGHLIM

Zirlai ruangam

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4.1 THUKAMKEUNA

Artui keuthei te chu khawl, a hming hatcher an tih maiah awptir thin a ni a, chu khawl chuan pindan pahnih a hming setter leh hatcher a nei a. Chu khawl chu anih ang taka thawk tur chuan hmanraw tenawi dang tamtak a mamawh bawk a. He khawl in a tum ber chu a tam thei ang ber arnote hralh tlak leh arte tha awpkeu a ni ber a ni. Thianghlimna vawn hi he hmuna thil tul pawimawh ber a ni a, chumi chuan arnote a tam thei angber a keutirin, arnote hriselna a vawngtha a, tulloa arnote thalo paih a titem em em a ni.

A thiltum

He zirlai zirzawh hunah heng hi tih theih alo ni tawh ang:

- Arnote awpkeuna hmun vawn thianghlim dan kawng duan chhuah; leh
- Kawng engkima arnote awpkeuna hmun a hmalak anih dan leh a hnathawh thlithlai dan.

4.2 EXPERIMENT

4.2.1 Thubul

Hatchery hi arnote pianna hmunpui ber anih avangin hmanraw hman reng reng thianghlim thei ang bera vawn tur a ni a, chuti lo chu arnote tam thei angber beisei theih ani lovanga, chu chuan hlawkna a thlen tlem dawn a ni. Chuvangchuan, ar in leh ar ina hmanrua te ang bawkin ar awpkeuna hmuna pawh hian thianghlimna leh damdawi hmanga invawn thianghlim hi tihmakmawh tur a ni ve bawk a ni.

4.2.2 Mamawh

- Hatchery room, egg-setter, hatcher leh hmanraw tenau dang awmna,
- Damdawi puhna khawl, chhuat nawhfaina, fumigation box emaw fumigation room,
- Damdawi chi hrang hrang hmanraw tihfaina leh tui tihthianghlimna.

4.2.3 A tih dan tur

(i) Setter, Hatcher leh a hmanraw ken te

- 1) Chhuat leh hmanrua te chu bawlhhlawh tangkhang a awmlohna turin puh thianghlim vek phawt tur a ni a, damdawi tam zawk hi heng bawlhhlawh tangkhang awmlohna hmunah hian an thawk tha thei zawk a ni.
- 2) Khawl atang chuan setter leh artui dahna tray te lak chhuah a, tihfai leh damdawi hmanga tih thianghlim tur a ni.



Fig. 4.1: Setter

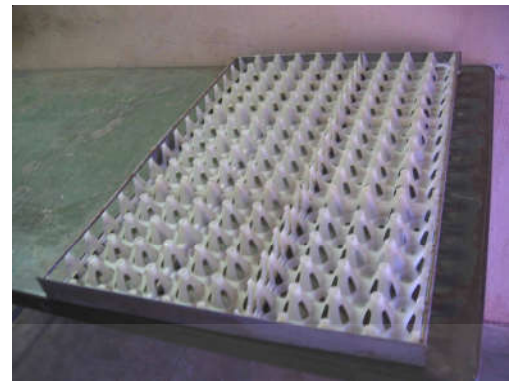


Fig. 4.2: Setter tray



Fig. 4.3: Hatcher



Fig. 4.4: Hatcher tray with day old chicks

- 3) Damdawi hrang hrang hman chhawkin chhuat chu nawhfai fo tur a ni.
- 4) Artui awpkeu tur, incubator room, hatcher room, hatchers, washing room etc. te chu damdawi chakna hrang hrang hmangin ur thianghlim fo tur a ni. Normal emaw single strength 1X tia hriat awmzia chu 40ml formalin (40% formaldehyde) leh 20gm potassium permanganate (KMnO_4), 100 cft volume zela zau atan chawhpawlh tur tihna a ni. Khing damdawi te khi a leta tam entirnan 80ml formalin leh 40gm KMnO_4 hman a nih chuan 2X a ni a, chutiang zel chuan vuah chhoh zel a ni. Mamawh dan azirin 2X, 3X a chak te hman a ngai thin a ni.
- 5) A hnuaia tarlan damdawi takdan hrang hrang te hi a tul anga hman tur a ni (Table 4.1).

Table 4.1: Damdawi hman takzawng leh a hman hun rei zawng

Ar awpkeuna hmun leh hmanrua te tihthianghlim

Ur thianghlim tur thil	Damdawi chakzawng	Ur hunchhung (in minutes)
Artui tharlam	1X, 2X	20
Incubator room	1X, 2X	30
Hatcher hmanzawh hlim	3X	30
Hatcher room, chick room, Wash room	3X	30

(ii) Hmanrua leh bungraw dang

Hmanraw dang awmthei te chu tui hmanga uluk taka silfai anih hnuah, tui leh sabhawn hmanga silfai leh hnuin, tui thianghlim hmanga silfai leh a ni thin. Chhuat chu damdawi tui hmanga nawhfai thin hi tih ngei tur a ni a. A hnuaihia hian a tlangpuia zawm ngei tur invawnfai dan kalthmang te tarlan a ni.

Table 4.2: Arnote awpkeuna hmun vawnthianghlim kawnga zawm tur te

Tihfai tur hmun leh hma	Tih dan tur
Artui khawihntu te kut silfai	Darkar khat dan zelah sabhawn tui 4ml tui litre khat zela pawlhah kut silfai leh chiah thianghlim tur.
Ur thianghlimna room	Chhuat disinfectant/phenol emaw nena nitin nawhfai.
Cold room	Phenol solution hmanga nitin chhuat nawhfai tur.
Setter, setter room, Hatcher room, Arnote pekchhuahna room	Nikhatah vawikhat phenol solution a nawhfai, Setter leh hatcher room te chu tuia silfai hnu ah, 2% formalin hmangin hnathawktu vakvel tlem lai taka phuh thianghlim thin tur.
Humidifier tank	Tui hman tur chu quaternary ammonium compound hmangin tihthianghlim tur (see Experiment 7). Darkar 24 chung atana hman tur a tam ruahman tui chu tih thianghlim sa a dah thin nise a finthlak hle ang.
Chhuat silfai	Karkhatah vawikhat, sabhawn tui hmangin chhuat zawng zawng silfai hnu ah phenol solution hmanga nawhfai leh tur. Bang 4ft a sangchin pawh silfai bawh thin tur a ni.
Hatchery tray tihfai	Silfai hnu ah, tray te chu a hnuaiia tarlan solution ah te chiah thin tur a ni: Orthophosphoric acid 1% dilution – thlabi a karhmasa ber ah. Caustic Soda @ 1g/litre of water – a dang karthum chung ah.
Hmanraw tenau dahna room	Nitin bleaching powder leh formalin hmanga urthianghlim: 100 cft. a zau zelah 20g bleaching powder leh 40ml formalin hmangin.
Hatchery hualveltu	A nihdan tur ang taka chawhpawlh damdawi hrang hrang te hmanchhawkin, hatchery leh a bulvel te tihthianghlim tur.
Ke chiahna	Thawktu te inthlak apiangin an pheikhaw te damdawia chiah thianghlim thin tur a ni.
Kut silfaina	Tui leh sabhawn tui hmangin.

4.2.4 Hmuh dan

(i) Damdawi hatchery tray tihfaina atana hman hming leh hman zat.

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(ii) Hmanraw tenau dahna room tihfai nana hman damdawi hming leh hmanzat.

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Hatchery leh hmanrua in tlawh te vawnthianglim an nih dan enfiah rawh.

4.2.5 Hmuhchhuah

Hatchery i tlawh, vawnfai anih dan hmelhmang, i hmuh dan sawi rawh.

4.3 FIMKHURNA TUR TE

- A hmanna tur azirin damdawite a takdan ruahman uluk taka en tur. Hatchery thianglimna anih dan tur ang ngeia zawm a nih theih nan tih tura ruatte zawm ngei tur a ni.
- Damdawi hman kawngah hian fimkhur em em a ngaia, mit tan te a hlauhawm theih avangin fimkhur leh zual a ngai em em a ni.