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Editorial

Ui seh

- Dr. Mahminga Sailo
Waggin' Tails, Bawngkawn

Management Practices of Dairy
Cattle

Dr. Rebecca K. Lalh mangaihi V.O
State Vety Hospital, Kolasib

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- Dr Lalchamliani, ICAR NRC
Mithun, Medziphema Nagaland

Keimahni :

Editorial :

Han ti leh bawk thin ila, eizawnna hi kan tunlai khawvelah hian a hautak ngial ta mai. Lehkha thiam tan pawh, thiamlo tan pawh sawrkar hna hian min daih vek seng tawh rih lo tih hi tlang hriat a ni tawh a. Chutih rual chuan chuktuah huan te, ran vulhna hmun thawl zawk a khawsa kan zokhua unaute lah hmunpui zawk, ranvulhte, huan thlai siamna hmun thawl awm lohna hmun kan khawpuite kan la pan khawm tak sup sup a. Aizawl angah phei chuan veng tam zawk tan ranvulh te kan in khap hmuu ta lai bawk nen, thil hi kan chik tawk lo emawni chu tih tur hian kan khawsa ta hian a hriat thin. Tun hma deuh, UT kan nih tan laite, State kan han nih hlim chhawn lai velte kha chuan pawisa leng vak han ham khawm nawk nawk turté kha ala awm a, mahse, tun dinhmuna chuan mahni thawhchhuah ngei ringa khawsak a tul ta si. ‘Risk’ la in chiahpuam, khehpuam ilo ah han intat lut ve ngawt dawn ila, rei ngial jail tan inhuam a lo ngai bawk si. Engtinge ni ta ang le! Kan sawrkar pachhiat zia lah tlang hriat bawk. Hetiang dinhmuna kan din vek lai hian harhfim bengsik a kan ngaihtuah chian a, kan thangharh anih loh chuan khawvel hmun hrehawm leh khawsak harsatna ber ramah hian kan ram ve hi samtein a tlu lut dawn a, a tlu lut mek te pawh kan ti ngam hial em? Harsatna namen paltlang tawh nung khawchhuak fan fan thei ‘Vai’ kan tih angte pawh hi entawn hreh tak loh a fuh awm mange. Vai hausa tawhte chuan tlemin bul an tan a, an lian tual tual mai a sin le kan ti zut zut a, tih ve tum lah kan tam silo. Thawhrim rah seng a tum a nuamsa ta Mizote zingah sawi tur erawh chu an awm, mahse an tam lo. Kan rilru piangsual tawh ‘len that tumna’ hi pailh a hun tawh a, pailh theilo mah ila kawngka zim an sawi ang deuh a ni. Sawi tur a tam. Engpawh nise ran kan vulh emaw hnathawh hrang hrangte a bul kan tan a nih pawhin, tanpuina, pawisa hlawm tham hum teuh chunga bul tan kher tum lovin tlem te atangin, ‘lian tual tual’ siam dan hi mi taima tan chuan a awm chiang a ni, a bik takin, ‘Ran vulh’ atangin.

Ui seh!

*Dr. Mahminga Sailo
Waggin' Tails, Bawngkawn*

Ui seh hi a hlauhawm vek em?

Ui seh zawng zawng a hlauhawm vek kher lo, mahse an hap nat hlauh chuan na tawrh bakah ui chanchin hriat chian lohvin min seh ngat phei chuan ui a hri kai hlauh theih a nih vangin, rilru a hah tel thin. Amarawhchu, ui seh zawng zawng erawh ui a hri vei vanga seh a ni vek loh laiin, a ni palh hlauh thei thung!

Uiin mihring emaw ran dang an seh hian an seh chhan hrang hrang a awm thei a. A tam berah chuan ui note leh thanglai ten an chenpuite leh an ina lengte an chhaih vanga han seh/hap palh a thleng fova. Hetianga infiam vanga an seh (play-bite) hi chu ui a hri vei vang a ni lo tlangpui a, a hlauhawm lem lo.

Tin ui hian hmeliat lem loh leh annmahni tana hlauhawmten kut emaw hmanrue thawh chunga an lam pana an ngaihte an seh fova. Tin, ui dawihzep leh tawmim ten an hlauthawn vangin mi an seh fo bawk. Hetianga an seh chhan hi an invenna vanga seh (defensive

bite) a ni tlangpui a, ui a hri vanga seh a ni lem lo. Amarawhchu, invenna leh an hmelma te laka inven tum vanga mi seh an nih vangin an seh na fo thung a, hliam na tak a thlen thei.

Ui seh zinga hlauhawm ber, mahse thleng zen zen si lo erawh chu ui a hri an vei vanga mihring leh ran dang an seh (rabid bite) a ni thung. Ui a hriin an hriatna a khawihbuai tawh vangin, an taksa thunun thei lovin an bulhnaia seh theih ang ang an seh chawt chawt a. Chaw ni lem lo thing emaw perek emaw te khelin an ek hialan ei a. Thil um leh chhaih nei si

lovin an tlankual zuai zuai a, awrawl pangngai aiin aw chher chher chhurin an u ruah ruah a. An kam sir atangin chil hnang uai duah duah thin.

Ui a hri

Ranvulh leh ramsa atanga mihringin natna kan kaitheih zinga hlauhawm ber pakhat, hridanna laa inven theih natna niin, khawvel ram 150 aia tamah bu a khuar mek a ni. Mihringin ui a hri natna an vei zaa sawmkua leh paruk (96%) aia tam mah hi ui seh atanga kaichhawn niin, khawvel pumah ui a hri vangin minute sawmpanga dan zelah mi pakhat thi zel anga chhinchhiah a ni!

India ram bikah kum tinin mi maktaduai 7 velin ui a hridanna la an awm thin a, mi maktaduai 17 aia tam mah uiin a seh thung. Ui seh chhinchhiah kher loh nen phei chuan uiin mihring a seh hi a let aiin an tam mai thei! The Association for the Prevention

and Control of Rabies in India (APCRI) chuan kum 2004 khan India ram pumah ui a hri vangin mi 20,565 thi niin an sawi a, amarawhchu zirchian leh chhinchhiah dan a kimchan tawk loh vangin, an chhinchhiah let sawm dawn hi ui a hri vang thi awm tura ngaih a ni!

Uiin a seh che chuan...

Eng amaha hmaa hlauhthawn ngawt tur a ni lova, tin chhungte leh bul hnaia awm te pawhin insawithaih titih a, hliam tuarte tana awm nuam lo rawk khawpa tawngkam neih hi a tul ber lova, theih ang anga tawng thlamuana hnem zawk tur a ni. Amarawhchu natna tihbaiawm tak kaichhawn palh theih a nih vang erawh chuan ui sehtu hridanna lak dan chhinchhiahna bu (vaccination card/booklet) leh, a neituten an enkawl dan te enfiah a, a tul anga ui hri danna chiutu Veterinary Doctor rawn a finthlak thin.

A seh hliam/hmuamhma kha tui thianghlim leh sahbawn hmanga minute 10-15 chhung tal sil tur a ni a. Hemi hnu hian Iodine emaw pemthar damdawi hmanga hruk fai ni se. Tichuan a rang thei ang berin hriselna lama thawktute pan thuai tur. Ui seh reng rengah taksa tithip thei thil thur lam emaw, hmarcha dip emaw, theitui lam phul/ hnawih loh tur a ni a. Tin, hliam kha tuam loh tur.

Mihring erawh kan inang lova, ui hridanna chiu thlap leh a chiutu Doctor pawn a hlauhawm lohzia hrilhfiah an nih hnu pawha hlauhthawnna la nei tlat an awm thin. Heng tan hi chuan Medical Doctor-te thurawn anga hridanna lak mai a him.

Tun hnaia ka tawnhriat chi hniih hi tarlang ila. An tette atanga ui ka enkawl ve vein mi an seh chungchang a ni. Ui sehtu pakhat hi, ui nu no pawh nei

tawh niin, an ina leng nula haw tur mawngah a lo hap hlauh mai a. Thiante ui tiin hlauthawng lem lovin nula chu a haw mai a. Ngai teh, an in a thleng a, an thenawmte'n, "Ui seh reng reng ui a hri vennaa chiu ngei ngei tur, ui a hri te chu kum thum hnuah pawh a lang chhuak chauh thei" an lo ti ta si. A hlauthawng leh lawi si, an chhungkua inrawnin hridanna lak ngei an duh ta a.

Ui neitu min sawmna angin ui enkawl leh hridanna chiutu ka nih angin, uiin a seh nula te chhungkua hmuin kan va leng ve a. Ui seh zawng zawng a hlauhawm loh thu leh a sehtu pawh kan hriatchian thu te ka hrilh chuan, chhungkaw pa ber chuan, "E khai, chutia Doctor berin hlauhawm lova i hriat chuan, rilru dam deuhin kan awm theih phah e" tiin inchiu kher pawh a tul loh thu a sawi ta a. Kum khat a liam ta a, a sehtu ui a la dam thain, nula

pawn engmah insawiselna a nei lem lo. Pakhat erawh a ui neitu leh a seh a te pawh innel tak an ni a. Amarawhchu, hridanna kan pek thu leh a hlauhawm loh thu kan sawi pawn seh hliam tuartu ber khan a hlauhthawn thu leh a awm a nawm loh thu a sawi a. Tichuan, medical doctor hmuin hridanna an la thung.

Nu leh pate mawhphurhna

Ui seh za zela 40 – 65 hi naupang kum 15 hnuailam an ni a. Chuvangin, ui a hri chungchangah hian nu leh paten kan fate ziritirin mi ui an hmuh emaw an bul hnaia an infiam changa fimkhur a tulzia kan hrilh nawn fo tur a ni a. Mi hrang ui, la hmuh leh hmelhriat ngai loh chu a neitute zawk chian hmaa chhaih emaw chul sak tum ngawt loh tur a ni a. Tin midang ui chhaih leh auh nawmnah chin loh ni se. Ui hian an hmelhriat ngai loh leh mi thar zawng zawng an nelin an

kawmngeih vek bik lova, anmahni tina tur emawa an ngaih vangin rin loh deuhin naupang an seh mai thin. Fimkhur a tul.

Ui vulhtute mawhphurhna

Vawikhat chu Ui a hri venna ka chiu zo tiyah a neitupa chuan, “Ummn, ti kha chuan tu pawh seh mah se pawisa chawi a ngai tawh lo” a ti ta mai! Khatiang ngaihdan kha kan pu tur a ni hauh lo. Kan sawi fo tawh thin a, ui a hri venna chiu hian uiin mihring a seh nazawng dangtu a ni lova, ui a hri an kai tur laka taksa ralveng tichaktu mai a ni zawk.

Ui kan vulh chuan enkawl leh a tul anga khawtlang hruaitute’n khuahkhirhna dan an siam chu zawm mai thin tur a ni. Tin, mi a seh palhin hliam tuartute’n an hlauhthawn tlat chuan Doctor rawna a tul ang hridanna lak sak leh mamawh sum sen tur kan sen huam a tul. Ran nunna ai

chuan mihring nunna chu a hlu zawk fe si a. Hetih lai hian, suahsual vanga uiin a seh pawh ni lo, thenawm khawveng ui hnawksak tih vang hrim hrim a inpuh duh mai an awm zauh zauh thung a, kan fimkhur tlan a pawimawh ber awm e.

AMC hmalakna chi a ni lo'ng maw?

Tun hnaiah veng bil thuneitu Local Council atanga ui khuahkhirh chungchangah ui hmangaihtu leh chenpuitetana thuchhuah hriat hrehawm a awm ta nual mai. Ui vulhtute thiam lohna kawng tam tak a awm ngei ang a, chutih rualin dan khauh tak siam hma hian thuneitute hian veng mipuite tan hriattirna emaw zirtirna pangngai tak an pe tawh em le? Local council tin hian an enkawl chhungah chuan thu an

neih angin, ui khuahkhirh chungchangah pawh veng tin thu chhuah a inang lo thei hle bawk.

Khaw dang chu sawi phak lo mah ila, AMC huamchhungah tal hi chuan ranvulh khuahkhirh leh enkawl dan hi veng tina zawm theih tur AMC hian duangin Local Council-ten dan kenkawh lamah tanpui ta mai se a tha zawk ang em? Hemi chungchangah hi chuan Veterinary department leh AMC lama hruaitu fel tak takten dan puitling tak an duang chhuak thuai turah beisei phawt mai ila. Kawng tam takah hma kan sawn ngei ang.

Vawiin, World Rabies Day hian Ui a hri laka inven a tulzia leh ran kan enkawl kawnga hmasawn zel tur kan nihzia min hriat nawn tir mawlh teh se.

MANAGEMENT PRACTICES OF DAIRY CATTLE

Dr.Rebecca K.Lalhmangaihi V.O
State Vety Hospital, Kolasib

Management Practices of Dairy Cattle awmzia chu hetiang hian sawifiah dawn ila-bawngchnute sawr tura vulh dan, a enkawl dan, a in sak dan te, a chaw pek dan chungchang te, a enkawl tura hnathawk rawih dan te leh bawngchnute market ah a hrallh hlawk zawk dan tur a buaipui te a ni thei ang.

A hnuai ami ang hian tawi fel deuh deuh in sawi kan tum dawn a ni.

A INSAK DAN TLANGPUI –
Bawng-in sak na tur chu a bul vel hmun aiin a sang deuh tur a ni a, ruahsur a tui a luan chhuah zung zung na tur leh bawngkek leh zun te pawh a luan fai awlsam theihna ni se. Bawngin chuan hmar lam hawi atangin nisa duh tawkin hmu thei bawk se a tha. Tin, thli thaw lutuk lak atangin fihlim thei bawk se. Bawng in hi kawgpui atanga awlsam taka kalpawh theih a ni tur a ni. Tui thianghlim hi duhtawk a hman tur a awm reng tur a ni bawk. Bawng-in ah chuan thil hlauhawm, bawng inhliam palh

theih na lak ata fimkhur tur a ni bawk. Electric current hi awlsam taka chhit theih tura duan tur ani. Bawng chaw dah khawmna hi bawng-in atanga hnaite ni thei bawk se. Bawng-in sak dan hi chi hnih in a then theih a. Chungte chu Loose Housing System leh Conventional Dairy Barn ani.

LOOSE HOUSING SYSTEM

- He bawng-in ah hi chuan bawng hi a hrang in an dah thin a, bawngchnute sawr lai leh damlo enkawl lai anih loh chuan, an mahni in an tla hrang thin a ni. He insak dan hi a hautak lo khawp

mai. Tin, siam danglam duh pawn a awlsam bawk a, bawng hur leh hur lo hriatchian a awlsam a. Tin, bawng te pawn zalen taka awm nuam an ti a, exercise pawh an taksa che vel ah an hmu tha bawk, hei hian thui takin an hriselna pawh a vawng tha thei. A insak dan a bawng in an awmna zau zawng an mamawh dan chu hetiang hi na ni.

Types of animals	Floor space per animal (sq. ft) Covered area	Open area	Manger length per animal (inches)
Cows(Bawng puitu)	20 – 30	80 – 100	20 – 24
Bawng note	15 – 20	50 – 60	15 – 20
Bawng rai lai	100 – 120	180 – 200	24 – 30
Bawngpa	120 - 140	200 - 250	24 - 30

CONVENTIONAL DAIRY
BARN – He bawng-in sak dan hi chu a hautak deuh avangin tunlai ah chuan an hmang lutuk tawh lo a mahse he in sak dan ah hi chuan boruak vawt leh lum lutuk lakah te a veng tha a ni. Hetah hi chuan bawng kha an tam loh chuan tlar khatin an dah phei theih a, bawng an tam deuh chuan a tlar thuah in an dah thin a ni. A intlar thuah ah chuan bawng kha an mei leh mei in hawitawn emaw an hmai leh

hmai in hawitawn in an dah thin. Hetianga bawng dah a thatna chu a kar awl awm kha chet nan a remchan bakah tihfai a awlsam a, natna pawh an inkai darh chaklo zawk a, boruak thianghlim pawh rualkhai takin an dawng thei bawk ani, tin, a chaw pek pawh a awlsam in hun a duh reilo bawk. Tin, bawng note hi a theih hram chuan bawng puitling nen dah pawlh loh nise. Chhuat hnawng hi bawng note

in thawk lama natna an neih phah duh hle. Bawng note hi an thla zat a zirin an awmna zau zawng mamawh dan chu hetiang hi a ni :

- | | | |
|----|---------------------------------|-----------------------|
| 1. | Thla thum ah | : 20 – 25 square feet |
| 2. | Thla thum atanga thla ruk ah | : 25 – 30 square feet |
| 3. | Thla ruk atanga thla sawmpahnih | : 30 – 40 square feet |
| 4. | Kum khat chin ah | : 40 – 50 |

NO NEIH LAI LEH NEIH HNU A BAWNGPUI LEHA

NOTE ENKAWL DAN –

A tlangpuiin bawng in no a pai chhung ni 282 a ni a mahse ni 270 atanga ni 290 pawh an pai

thei a. Bawng rai lai chu chhuata a tawlh thluk tur ven that viau tur a ni. Bawng dang hur lai nen dah pawlh loh tur a ni. Bawng in no a neih hnaih dawn chuan an serh leh an hnute te a hma aiin a rawn pawng zual deuh ang. A awmna hmun hi a fai tur a ni a, boruak thianghlim luh thatna ni bawk se, a mutna tur pawh siam that tur a ni. Bawngin san a pek hnu ah chuan a note ke hmalam pahnih a rawn lawr hmasa anga, a rawn chhuah dan hi a dik lo a nih chuan

bawng chu tanpui vat a, mithiam te rawn nghal vat tur a ni.

A tlangpuiin a vei atanga darkar khat atangin darkar hnu ah ah an nei fel tur a ni a, a san hnu a darkar li(4) a ral hnu pawh a a neilo a nih chuan, mithiam te puihna ngen nghal vat tur a ni. No a neih fel hnu ah a serh pawn leh a mei bul vel te tuisen (KMNo4) hi tuithianghlim apawlhin, silfai nan hman tur a ni. Bawng chu tih lum tur a ni a, tuilum in tir theih a tha bawk. No a neih hnu ah muangchangin a khat tawkin a hnute sawr tur a ni a, zing lutuk lo

in. Achhan chu milk fever an neih phah thei. A no tuamtua placenta hi no a neih hnu darkar 2-4 chhungin a tla fai tur a ni a, darkar 8-12 hnulam ah pawh a la tlakfai loh chuan, mithiam te koh a, fimkhur takin pawh chhuah pui tur a ni. He a no tuam tu placenta hi thuk taka lei hnuai ah phum nghal tur a ni a, bawng in a liah emaw a ei emaw phal loh tur a ni. Bawngnute tui nei tam ah hian milk fever leh mashtis neih a awlsam a, a theih hram chuan no a neih hnu ni hnih khat hma chu hnute tui hi sawr tam loh tur a ni. No a neih hnu hian pum lam fel lo a neih loh nan chaw pek pahin tuilum pip pep nen a pek a tha.

BAWNG NOTE PIANGHLIM ENKAWL DAN –

Bawng note chu a rawn pian veleh a hnar bul vel a thil bal leh hnang awm chu tihfai nghal vat tur a ni a, a thawk that loh chuan a awm ah zawi te te a nem tur a ni. A lai ah Iodine hnawih tur a ni a, a lai hrui hi a sei deuh chuan a taksa atanga inches hnih vel ah tawn tur a ni a, sakawrbakcheh thianghlim in cheh chhum tur a ni. A no chuan bawngnute hmasa (Colostrum) hi a hmasa darkar 48 tal an hne tur a ni. Colostrum hian natna do

na tha tak a nei a, an pum lam fel lo a veng thin bawk. Note pianghlim hian nikhatah a pui hnute hi 5-6 litres tal a hne tur a ni. A then ah chuan a note hi ni hnih atanga nithum hnu ah a pui hnen atangin an dah hrang thin a mahse hei hi tihdan a in ang vek lo. A then ah chuan kar riat hnuah bawng dang nen an dah ho thin. Ni 15 hnu ah bawng note ki hi tan ni se a tha bawk.

Tin, bawng note hi ni 2-3 hnuah a pui atanga lak hran a nih chuan, bawngpui khan a no chu liak thei se, hei hian an thawk dan vel a siam tha thei a ni. Bawng note lak hran hnuah bawnghnute in dan zirtir tur a ni a, bucket te fai ah a pui hnute chu dah in a hnar bulah dah a, mahni kutzungtang liah tir emaw seh tir a, bucket a bawnghnute lamah a hmui chu hniah tir tur a ni. Bawng note chu ni sarih an nih thleng in nikhatah bawnghnute hi vawi 3 emaw vawi 4 emaw pek thin tur a ni a. Chumi hnu ah chuan nikhatah vawi 2 pek tur a ni. Bawng note chu thla 3 atanga thla 6 an nih chhoh chuan bawng chaw pangngai tlem tlem in pek tan tur a ni.

Bawnghnute sawr lai enkawl danah hian thil pawimawh deuh deuh a hnuai point ah hian tarlang ila –

- 1. Daily Inspection** – Nitin in zingkar ah bawng enkawl tu chuan a endik tur a ni, damlo an awm leh awm loh te, tin bawng hur an awm leh awm loh te a endik thin tur a ni.
- 2. Regularity of Care** – Nitin a bawng a enkawl dan ah tihdan phung uluk takin a nei tur a ni, a chaw pek dan, a hnute sawr dan te, a tui in tur pek dan ah te pawh. A enkawl dan phung thlak thath chuan amah ah nghawng tha lo nasa tak a nei thei.
- 3. Zaidam taka enkawl tur** – Bawng chu zaidam taka enkawl tur a ni a, kutthlak emaw a thlaphang zawng a tih loh tur a ni, hetiang chin chuan a no pai ah leh a hnute sawr ah thui takin a tha lo lam zawngin a nghawng thei a ni.
- 4. Grooming of Dairy Cows** – Bawng chu an vun leh a hmul te fai taka enkawl tur a ni a, a theih chuan a hnute bul velah

leh a ke hnung lam a hmul sei bik te tan tawi thin tur a ni. Brush nem deuhin an hmul hi khuuh fai sak thin tur a ni.

5. Drying off Cows – Bawngpui chu a no neih hma deuhin a hnute tui sawr hi tih tlem deuh a tha. A chhan chu no a neih hnuah a hnute tui a tam duh bakah a chaw ei tha tam tak kha a hnute ah kal ral vek lovin a note insiam that nan a hmang thei dawn a ni. Tui tlakchham a neih tur lakah a veng bawk ang.

6. Deworming – Rulhut hlo hi regular takin mithiam te rawn in pek thin tur a ni a, a tlangpuiin fur in tan dawn ah leh fur reh zawh hnuah pek thin tur a ni.

7. Keeping Records – Record hi fel taka ziah tur a ni, bawng in no a neih hun tur te, a no neih hmasa hun te, a pawl tir hun te, vaccine leh rulhut hlo pek hun te leh thildang pawimawh te fel fai taka ziah tur a ni.

Tin, FMD Vaccine (Bawng ke na hri danna) hi a concerned Department in an neih hnu ah lo pek ngei ngei tur a ni. Bawng damlo reng reng chu rang takin a hrisel te lakah dah hran nghal tur a ni. Bawng natna avanga thi chu thuk takin leihnuai ah feet ruk vel ah chinai nen phum tur a ni. Bawng damlo awmna chu disinfectant kan tih ho phenol leh cresol....etc. in tihfai tur a ni.

A tawp berah chuan kan bawng vulh chungchang ah damlo hna emaw harsatna kan tawh in Vety Department te rang taka rawn nghal thin tur a ni.

Sial Mizote rohlu eizawnna tlak

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Mithun (*Bos Frontalis*) mizo ten a “Sial” ti a kan hming koh”Tlangmite bawng” tih hial pawn sawi lar a ni a. Kum 8000 liam ta khan Sial hi ram sial (Wild Gaur) thlah niin Simons, 1984 chuan a sawi a. Hmasang kan pi leh pute ran vulh zinga sawi hlawh ber leh hunpui nikhua a salsal tel lo a engmah hlawhtling thei lo tur ang khawpa an ngaih thin ti ila a sual awm lo mang e. Kan pi leh pute khawtlang nunah khan Sial hian

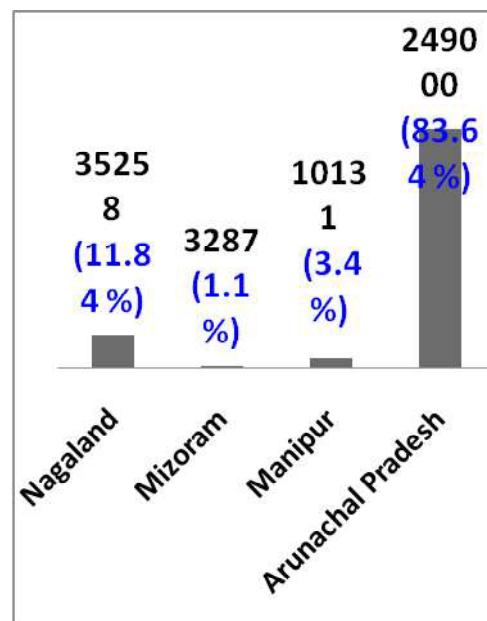
hmun pawimawh a luah hle a, pipute thufing tam tak “*Sial rangin sial rang a hring*”, “*Se bo hnu a se kawngkhar*”, “*Siali Iiang e (mizo hmeichhe hmeltha tak sawina)*” tih ;hausakna teh nan Sial neitam ber chu hausa ber chhungkua ah an ngaih thin a ni. Tlangram tuipui zawl atanga teh a 300-3000 metres MsI velah sangah an cheng deuh ber a, hmun vawt an ngaina deuh ber a ni. Kan ram mai nilo kan hmarchhak state Nagaland leh Arunachal Pradesh phei chuan an ngaipoimawh zia lan tir nan an ram “State animal” ah hial an hmang a. Kan khawvel ram zau takah hian sial hi hmuh tur a tam lo em em a, India hmarchhak state pali Arunachal Pradesh (83.75%) ah a tamber a,

Nagaland (11.73%), Manipur (3.41%), leh Mizoram (1.1%) ah awm in Jammu and Kashmir, Himachal pradesh ah hian tlemte chu hmuh tur an awm ve bawk a. Myanmar, Bhutan, Bangladesh leh Yunna province of China ah tlem chauh hmuh tur an awm ve bawk a ni.

Sial kan vulh dan tlangpui chu a neituten chaw a hrarpa a pe lem lo vin ramhnuiah hnimhnah te an zawng a, chi a chang chang a pek a ni mai rih a engmah thildang ngaihtuah buai ngailo leh senso tur em em ngai bawk si lo, ran vulh hautak lo tak a ni a, pawisa khawlna tha tak “*Bank account kal thei*“ tih hial pawn ko ila kan sawi sual awm lo mang e.



Fig: Sial kan hmuhna ram te



Source: 19th Livestock census 2012

Table: India Hmarchhaka Sial pun chhoh dan

States	1997	2003	2007	2012
Arunachal Pradesh	124194	184343	218931	249000
Nagaland	33445	40452	33385	35258
Manipur	16660	19737	10024	10131
Mizoram	2594	1783	1939	3287
Total	176893	246315	264279	297676

*Source: 19th Livestock Census, Dept. of Animal Husbandry,
Ministry of Agriculture, GOI, 2013-2014*

Khawvel a Sial zirbikna hmun awmchhun ICAR National Research Centre on Mithun, Medziphema Nagaland ah hian Sial thatna tur leh hmasawnna tur engtik lai pawn ngaihtuah in hma lak reng a ni a. Sial hrisel tha leh enkawl that chu ni tin 300 to 600 g a ritbelh tur a ngaih a ni a. Sial hi a sa atan kan vulh tlangpui a. Hlawk zawka vulh theih nan kum 3-5 an lo tlin hian a sa kan hmu tam in, a sa pawh a fei lo in talh theih rual tura ngaih an ni .

Sial Vulh dan tha : Sial kan vulh dan tlangpui chu ramhnuiai tlat tir tawp niin thinghnah eiin a chang chang a chi pek tawp a ni mai a. Amaherawhchu, kan ramhnuai te lo chereu chho zel leh mihring lo pungchho zelah hmun awl a lo tlem tak tial tial si ah chuan Scientific rearing system kan tih “Semi intensive system” hi ICAR NRC Mithun chuan Sial farm neiin a in te sa in sial vulh dan tha

leh rem zawk a kal pui a. Hei hi Mizoram ah pawh hman theih tura siam a ni.

➤ **Free Range System/Ramhnuia tlat tir**

Thatna

- ✓ Engmah senso ngai lo
- ✓ Chi chauh pek tuna kan vulh dan tlangpui

Thatlohma

- ✓ Chaw pek zat engmah hriat loh,
- ✓ an thang tur angin an thang chak lo,
- ✓ hriselna leh enkawlna hrim hrim atan thlahpun nan te hma lak harsa

Semi-intensive system:

Sial hi hmun dai leh hmun hnawng a chen nuam ti an nih avangin in siam sak a, chhunlamah tlat tir in tlaia an lo haw hunah anmahnii in tur siam ah chuan hrui a thlun leh mai tur a ni.

A thatna:

- ✓ Sial kha a mal malin enkawl an awlsam in an damloh pawn hriat a awlsam phah a, zingah leh tlai a an lo haw hunah damdawi te pe in enkawl an harsa tawh dawnlo a ni.
- ✓ Tui an mamawh tur tak pek an ni thei bawk a chi pekna hmun siam sak ah an chi an liah duh in an va pan zel mai bawk a ni
- ✓ Hmun a mamawh tamlo
- ✓ Hnimhnah ei tur tam tawk an hmuh loh in a hranpa in pek theih pah dawn bawk a ni.



Pic: Sial in Icar NRC Mithun farm



Pic: Sial chi liahna hmun

- Hmun mamawh zat : Sial Puitling (Kum 2 aia upa)
(8 sq.m approx) Sial naute: 5 sq m (approx)/ animal

- Feeding management: Vitamin leh mineral pek tel
a tha an duh nan.
 - Concentrate feed (15% CP and 70% TDN) fortified
with salt and mineral mixture
 - @ 1-2 kg/ animal/ day upto 2 years of age
 - @ 2-4 kg/animal/day above 2 years of age
 - Tui intur mamawh zat: a tam thei ang ber tui pek
tur.
 - Thlasikah: 9% of body weight Nipuiah: 12% of
body weight

Sial pawimawhna leh tangkaina:

Sial hnute: Sial hian hnute a ngah lo hle a nikhatah litre 1-1.5 chauh sawr tur an nei tlangpuia. Amaherawhchu sial hnute ah hian fat %(thau) a tam hle a hei hian thil chi hrang hrang dahi, lassi, rosagulla, paneer, cheese, ghee etc siam nan a duhthusam a ni. A hnuaia table tarlan ah hian sial hnute leh ranvulh dang hrang hrang in a kan hriselna atan a an tangkaina te han tarlang ila.

Table: Sial hnute, ranvulh dang leh mihring hnute te nen a khaikhinna

Particulars	Mithun	Cow	Buffalo	Goat	Sheep	Yak	Human
Fat (%)	10.2	4.4	8	3.5	6	7.2	3.6
Proteins (%)	6.8	3.4	4.5	3.1	5.4	5.3	1.8
Lactose (%)	4.6	4.8	4.9	4.4	5.1	5	6.8
Totalsolids (%)	21.6	12.6	17.4	11	16.5	17.5	12.2
SNF(%)	11.4	8.2	9.4	7.5	9.5	10.3	8.6

Sial sa hrisel nana tha tak tak mai chu:

Sial sa hian hriselna tam tak a nei a chungte chu:

- ✓ tunlaia hriselna ngaipawimawh tam tak ten a kan buai pui
“organic meat” ah dah theih a ni
- ✓ Protein 19-21% lai sial sa ah hian a awm a
- ✓ B-complex vitamins leh vitamin dang kan taksa in a a mamawh
Vit A, D, E and K a pai tel a Antioxidants thenkhat selenium,
Vitamin E and Vitamin E (α Tocopherol) a nei tel bawk a
Minerals thenkhat iron, copper, zinc and magnesium kan natna
do tu tur ti chak thei a pai tel bawk a ni.
- ✓ Thau chhia, cholesterol nei tlem in thou tha a nei tam mah
zawk a
- ✓ Kan hriselna atan a tangkai omega-6 and omega 3 fatty acids
a nei tel cheu

A hrisel mai bakah hian tunlai a kan siam uar em em mai meat patties, nuggets, meat ball, meat pickle leh a dang te pawh sial sa atang hian a siam chhuah theih a ni.

Leather siam chhuah nan

ICAR NRC on Mithun Nagaland in sial vun hi savun bag, pheikhawk, wallet , thawmhnaw chi hrang hrang siam chhuak theih a ni tih hmuhchhuah a ni a.



Fig: Sial vun atanga leather siamchhuah

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3	Dr. C. Lalrintluanga	DVO, Kolasib	DD (DD)
4	Dr. Engkunga Chhangte	DD (DD)	DVO, Kolasib
5	Dr. K.Lalnithanga	VO, Tuipang	GM, Selesih
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11	Dr. Lalnuntluanga		JD (SZ), Lunglei
12	Linda Zomuanpuii		DD (Accnt)

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