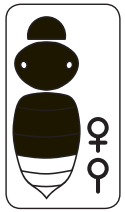
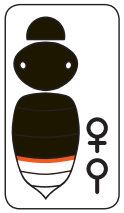
# EESTI KIMALASED

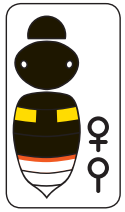
## Emakimalased ja töölised

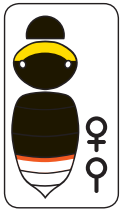
Leht 1/3

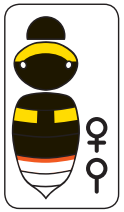
### 0 –1,5 KOLLASE TRIIBUGA


Sorokimalane
(Bombus soroeensis)

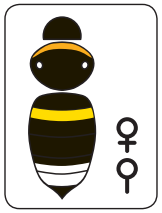

Sorokimalane
(Bombus soroeensis)

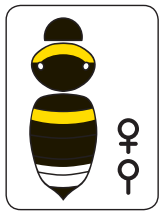

Sorokimalane
(Bombus soroeensis)

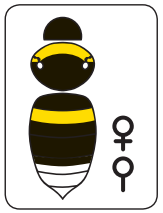

Sorokimalane
(Bombus soroeensis)


Sorokimalane
(Bombus soroeensis)

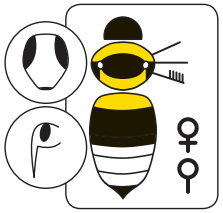
### 2 KOLLASE TRIIBUGA

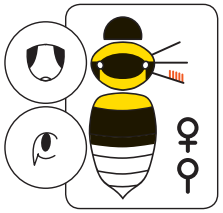

Karukimalane
(Bombus terrestris)

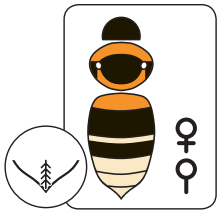

Maakimalane
(Bombus lucorum)

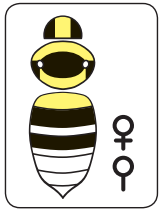

Bombus cryptarum

### 3 KOLLASE TRIIBUGA

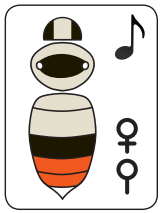

Aedkimalane
(Bombus hortorum)

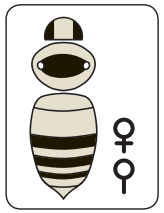

Nõmmekimalane
(Bombus jonellus)


Urukimalane
(Bombus subterraneus)

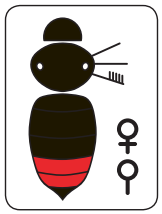

Bombus semenoviellus

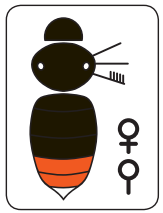
### KOLLAKAS-HALLID

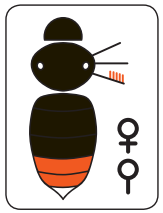

Metsakimalane
(Bombus sylvarum)

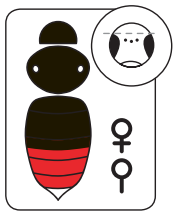

Hallkimalane
(Bombus veteranus)

### PUNASE JA MUSTAGA

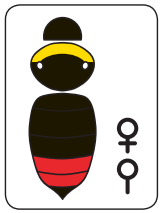

Kivikimalane
(Bombus lapidarius)


Sorokimalane
(Bombus soroeensis)

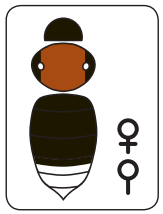

Tumekimalane
(Bombus ruderarius)

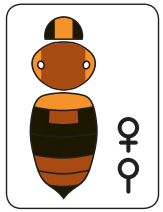

Bombus confusus

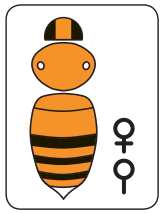
### KOLLASE, PUNASE JA MUSTAGA

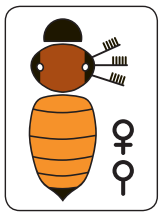

Niidukimalane
(Bombus pratorum)

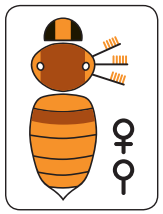
### PRUUNI PÕHIVÄRVUSEGA

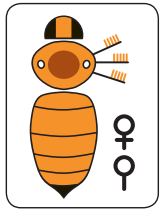

Talukimalane
(Bombus hypnorum)

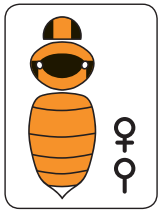

Põldkimalane
(Bombus pascuorum)


Schrencki kimalane
(Bombus schrencki)


Samblakimalane
(Bombus muscorum)


Jaanikimalane
(Bombus humilis)


Bombus laesus


Ristikukimalane
(Bombus distinguendus)

### Emakimalaste ja tööliste tunnused:

* tagajalgadel suirakorvikesed (läikivad karvutud alad säärel, ümbritsetud pikkade tugevate karvakestega)
* suirakorvikestes õietolmupallid (nende puudumine ei viita automaatselt isasele või kägukimalasele)
* liiguvad aktiivselt õielt õiele
* tagakeha tipp teravam, võib märgata nõela otsa

### LEGEND

tagajala-karvade värvus

körgem sumin

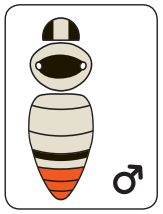
KESKKONNAINVESTEERINGUTE KESKUS

# EESTI KIMALASED

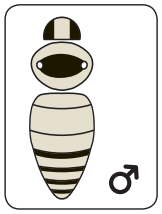
## Isakimalased

Leht 2/3

**KOLLAKAS-HALLID**

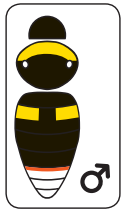


Metsakimalane
(Bombus sylvarum)

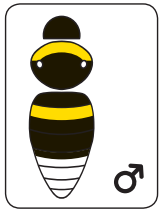


Hallkimalane
(Bombus veteranus)

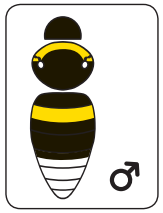
**KUNI 2 KOLLASE TRIIBUGA**



Sorokimalane
(Bombus soroeensis)

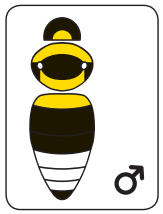


Karukimalane
(Bombus terrestris)

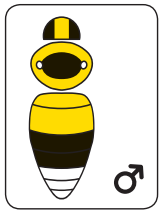


Bombus cryptarum

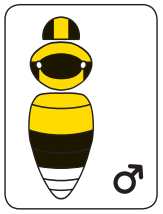
**3 KOLLASE TRIIBUGA**



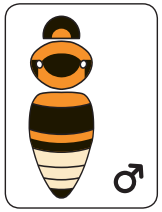
Aedkimalane
(Bombus hortorum)



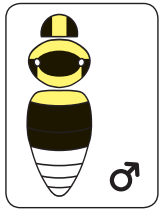
Maakimalane
(Bombus lucorum)



Nõmmekimalane
(Bombus jonellus)

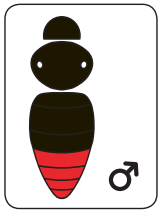


Urukimalane
(Bombus subterraneus)



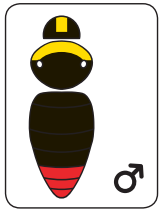
Bombus semenoviellus

**PUNASE JA MUSTAGA**

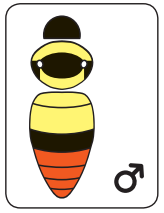


Bombus confusus

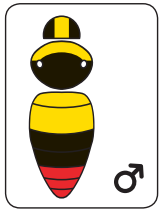
**KOLLASE, PUNASE JA MUSTAGA**



Kivikimalane
(Bombus lapidarius)

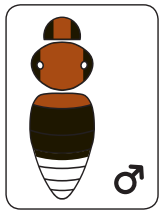


Tumekimalane
(Bombus ruderarius)

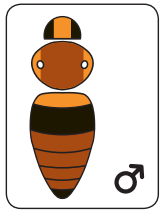


Niidukimalane
(Bombus pratorum)

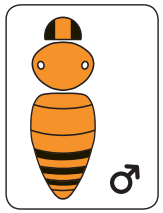
**PRUUNI PÕHIVÄRVUSEGA**



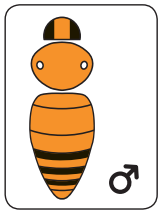
Talukimalane
(Bombus hypnorum)



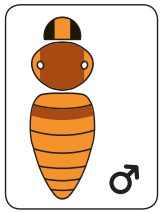
Põldkimalane
(Bombus pascuorum)



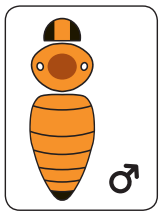
Schrencki kimalane
(Bombus schrencki)



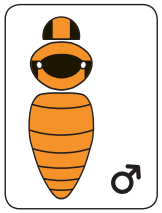
Samblakimalane
(Bombus muscorum)



Jaanikimalane
(Bombus humilis)



Bombus laesus



Ristikukimalane
(Bombus distinguendus)

### Isakimalaste tunnused:

* ilmuvad alates juuni keskpaigast
* tegutsevad kiirustamata, laisklevad pikalt ühe õie peal
* paljudel liikidel peas hele karvasalk
* tagajalad peenemad, puudub läikiv suirakorvike, ala kaetud madalate karvadega
* tundlad pikemad (13 vs 12 lüli)
* emaste kehakuju ümaram, isastel piklikum (6 vs 7 tagakehalüli)
* tagakeha tömbi tipuga

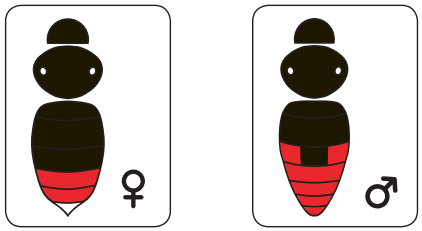
KESKKONNAINVESTEERINGUTE KESKUS

# EESTI KIMALASED

## Kägukimalased

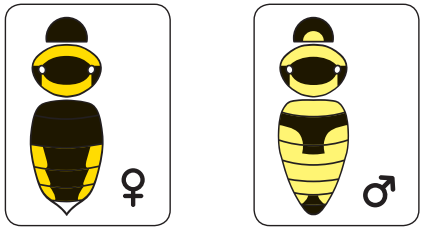


**PUNASE JA MUSTAGA**



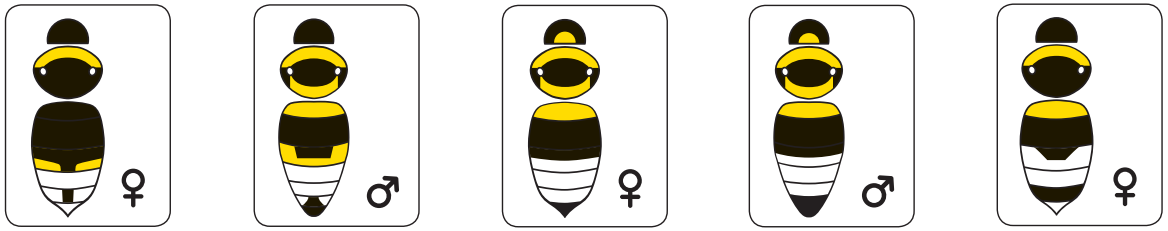

Bombus rupestris

**MUSTA JA KOLLASEGA**



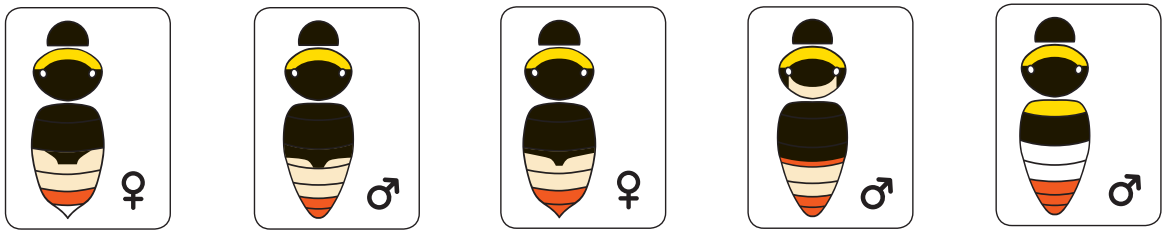

Bombus campestris

**KOLME-VÄRVILISED**



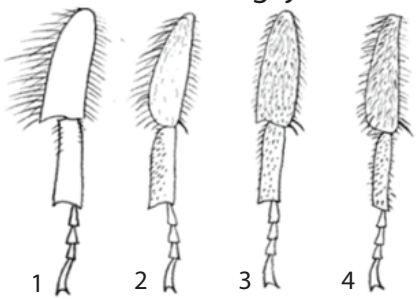

Bombus bohemicus | Bombus barbutellus | Bombus sylvestris

**NELJA-VÄRVILISED**




Bombus norvegicus | Bombus quadricolor | Bombus sylvestris

### Kimalaste tagajalad




1 - emakimalane
2 - isakimalane
3 - emane kägukimalane
4 - isane kägukimalane
www.bumblebeeconservation.org

### Kägukimalaste tunnused:

* tegutsevad kiirustamata, laisklevad pikalt ühe õie peal
* tagajala reit katavad lühikesed jäigad karvad, pind on tuhm, mitte läikiv
* suised lühikesed ja lõuad teravamad
* emaste tagakeha tipus, viimase lüli kõhupoolel kaks liigispetsiifilise kujuga kiilukujulist moodustist
* mõnel liigil kohati karvu hõredalt, iseloomulik V-kujuline paljand tagakehal või teravam tagakeha tipp
* mõnel liigil tiivad tumedamad kui kimalastel

Detailsemad määramisjuhised leiab Põllumajandusuuringute Keskuse väljaandest "Eesti kimalased" (koostajad M. Mänd ja E. Viik)

Määramislehed on koostatud projekti „Rahvateaduslik kimalaste loendus 2014“ raames.
www.looduskalender.ee

KESKKONNAINVESTEERINGUTE KESKUS