ПANEПILTHMIO
ПАТР $\Omega \mathrm{N}$
UNIVERSITY OF PATRAS

# ГХОАН ГЕЛПONIKএN EПİTHM日N <br> TMHMA ГЕЯПONIA乏 <br>  <br>  

## Птьұıккŋ́ Ерүабía




## ПІТТА ГTEPГIANH

A. M 12505

## ЕІІНГНTPIA KАӨНГНТРIA

Kapavaбто́бך Eıøŋ́vๆ


## Evдарıбтí\&ร

 $\pi \rho о \pi \tau v \chi ı к о и ́ ~ \pi \rho о \gamma \rho \alpha ́ \mu \mu \alpha \tau о \varsigma ~ \tau о v ~ \tau \mu \eta ́ \mu \alpha \tau о \varsigma ~ « Г \varepsilon \omega \pi о v i ́ \alpha \varsigma » ~ \tau \eta \varsigma ~ \Sigma \chi о \lambda \eta ́ \varsigma ~ Г \varepsilon \omega \pi о v ı к ळ ́ v ~$








 $\pi \alpha \rho о v \sigma i ́ \alpha \sigma \eta ~ \tau \eta \varsigma ~ \varepsilon \rho \gamma \alpha \sigma i ́ \alpha s ~ \mu о v ~ \alpha \pi o ́ ~ \sigma \cup \gamma \gamma \rho \alpha \varphi ı к ŋ ́ s ~ к \alpha ı ~ \sigma \tau \alpha \tau ı \sigma \tau ו к \eta ́ s ~ \pi \lambda \varepsilon v \rho \alpha ́ \varsigma . ~ \Sigma \tau \eta ~$ $\sigma v \vee \varepsilon ́ \chi \varepsilon เ \alpha, ~ \theta \alpha ~ \eta ́ \theta \varepsilon \lambda \alpha ~ v \alpha ~ \varepsilon v \chi \alpha \rho ı \sigma \tau \eta ́ \sigma \omega ~ \tau о ~ \sigma ט ́ v o \lambda o ~ \tau \omega v ~ \alpha \gamma \rho о \tau ஸ ́ v ~ \pi о v ~ \delta \varepsilon ́ \chi \tau \eta к \alpha v ~ v \alpha ~$










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## Пєрíдŋчך

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 $\alpha \pi о \tau \varepsilon ́ \lambda \varepsilon \sigma \alpha \nu$ ol $\pi \alpha \rho \alpha \gamma \omega \gamma$ oí $\tau \eta \varsigma ~ \Delta v \tau ı \kappa \eta ́ \varsigma ~ E \lambda \lambda \alpha ́ \delta \alpha \varsigma, ~ \varepsilon v ต ́ ~ \tau о ~ \delta \varepsilon ' ́ \gamma \mu \alpha ~ \eta ́ \tau \alpha \nu ~ 150 ~ \alpha ́ \tau о \mu \alpha . ~ H ~$


 $\varepsilon \pi \alpha ́ \gamma \gamma \varepsilon \lambda \mu \alpha$ аү $о ́ \tau \varepsilon \varsigma ~ \mu \varepsilon ~ \varepsilon ́ \delta \rho \alpha ~ \tau \eta ~ \Delta v \tau \iota \kappa \eta ́ ~ Е \lambda \lambda \alpha ́ \delta \alpha, ~ к v \rho i ́ \omega s ~ \tau \eta v ~ А \chi \alpha i ̈ \alpha, ~ \mu \varepsilon ~ к и ́ \rho ı \alpha ~$







 тоvs $\alpha \pi \alpha ́ v \tau \eta \sigma \alpha v ~ \sigma \omega \sigma \tau \alpha ́ ~ o ́ \tau ı ~ \sigma \varepsilon ~ \pi \varepsilon \rho i ́ \pi \tau \omega \sigma \eta ~ \pi о v ~ \chi \cup \theta \varepsilon i ́ ~ \gamma \varepsilon \omega \rho \gamma ı к о ́ ~ \varphi \alpha ́ \rho \mu \alpha к о ~ \sigma \tau о ~ \delta \varepsilon ́ \rho \mu \alpha, ~$









## 




#### Abstract

Rural development continues to play a key role in the production and policy planning of many countries. Agricultural chemicals are globally used widely in order to increase efficiency, quality, productivity and variety of products throughout the year. However, their misuse poses risks to the health of the producers, consumers and the environment. That is why EU has established guidelines for their use, which should be respected by everyone. The purpose of this study was to investigate and evaluate the knowledge and practices in the use of plant protection products by producers in Western Greece. A synchronous study was conducted from April to July 2021. The tool used was a Likert scale self-report questionnaire, in printed and online form, of 30 closed-ended questions, divided into 3 sections (demographics, knowledge of the legislation governing pesticides and good practice in the use of pesticides). The population of the research was the producers of Western Greece, while the sample was 150 people. Statistical analysis was performed with IBM SPSS 24 and Microsoft Office Excel 2016. The results, in terms of demographics, showed that the participants were mainly producers aged 31-40, high school graduates, who are mainly farmers based in Western Greece, mainly in Achaia, with the main crop being viticulture, that have not been certified in an integrated crop management program. As for the knowledge of the legislation governing pesticides, only $1 / 3$ of the respondents answered correctly that they make the decision to use a pesticide with the help of a geotechnical consultant. Still, the majority did not recognize the characteristics of a legal or illegal pesticide, nor the responsibilities that one bears when using them. On the other hand, in terms of adhering to good practices when applying plant protection products, the majority of respondents answered correctly that in case of pesticide spilled on skin, they have to wash the skin with plenty of water and follow the instructions on its label. Additionally, they were largely informed about the ways of storing pesticides correctly. In conclusion, it appears that in general the answers were unsatisfactory in both their knowledge and practices in the use of pesticides, however the highest percentage of producers considered it necessary to train in safety and plant protection. Future research is proposed on a larger and more representative sample, the size of which will result from the size of the population.


## Keywords

Pesticides, knowledge, practices, farmers, Western Greece

## Eıбоүळүи́






 $\beta \iota \omega ் \sigma \mu \eta$. Н $\pi \alpha \rho о v ́ \sigma \alpha$ عрүабía $\alpha v \alpha \lambda v ́ \varepsilon ı ~ o \rho ı \sigma \mu \varepsilon ́ v \varepsilon \varsigma ~ \pi \tau v \chi \varepsilon ́ \varsigma ~ \tau \omega v ~ \pi \lambda \varepsilon о v \varepsilon \kappa \tau \eta \mu \alpha ́ \tau \omega v ~ к \alpha ı ~ \tau \omega v ~$





 $\varepsilon \pi \imath \theta \nu \mu \eta \tau \alpha$.












 $\pi \rho \alpha \gamma \mu \alpha \tau \iota к о$ х́ $\chi \rho \eta ́ \sigma \tau \varepsilon \varsigma ~ \tau о v \varsigma . ~ ' E \chi \varepsilon ı ~ \mu \varepsilon \gamma \alpha ́ \lambda \eta ~ \sigma \eta \mu \alpha \sigma i ́ \alpha ~ v \alpha ~ \alpha \xi \xi ı \lambda о \gamma \eta \theta \varepsilon i ́ ~ \eta ~ \gamma \nu ต ́ \sigma \eta ~ \tau \omega v$



олоíol $\pi \alpha \rho \alpha ́ \gamma o v v ~ \tau \alpha ~ \pi \rho о і ̈ o ́ v \tau \alpha ~ \tau \alpha ~ о \pi о i ́ \alpha ~ \varepsilon ́ \rho \chi о v \tau \alpha ı ~ \sigma \tau о ~ \tau \rho \alpha \pi \varepsilon ́ \zeta ̌ ~ \tau о v ~ к \alpha \tau \alpha v \alpha \lambda \omega \tau \eta ́ ~$


 бuveıסףtŋ́s $\gamma v ต ́ \sigma \eta s$.


 $\beta \alpha \sigma \iota \varkappa$ бuvӨŋ́кŋ $\pi \alpha \rho \alpha \gamma \omega \gamma \eta ́ \varsigma$.

##  $\pi \rho o i ̈ o ́ v t a$

## 




- $\tau \eta v \pi \rho о \sigma \tau \alpha \sigma i ́ \alpha ~ \varphi v \tau \iota к ळ ́ v ~ \pi \rho о і ̈ o ́ v \tau \omega v ~ \alpha \pi o ́ ~ \varepsilon \pi ı \beta \lambda \alpha \beta \varepsilon i ́ s ~ о \rho \gamma \alpha v ı \sigma \mu o v ́ s, ~ \alpha v \tau i ́ \sigma \tau о \chi \alpha$

 Өрєлтıк⿱́ $\sigma \cup \sigma \tau \alpha \tau ו \kappa \alpha ́$,

 $\alpha v \varepsilon \pi \imath \theta \dot{\mu} \mu \tau \eta \varsigma \alpha v \alpha ́ \pi \tau v \xi ̌ \eta \varsigma ~ \varphi v \tau \omega ́ v$.

T $\alpha$ 甲vтолробтаєєvтıка́ $\pi \rho о$ öóvт (Plant protection products - PPP) عívaı $\sigma \tau \eta v$


 $\theta \varepsilon \mu \varepsilon \lambda ı \omega ́ \delta \varepsilon ı \varsigma \delta ı \rho \gamma \gamma \sigma \dot{i} \varepsilon \varsigma ~ \sigma \varepsilon \alpha \dot{\alpha} \lambda \lambda$ оvऽ $\zeta \omega v \tau \alpha v \circ v ́ \varsigma ~ о \rho \gamma \alpha v ı \sigma \mu о v ́ \varsigma$.













 غ́ $\chi \varepsilon ı ~ \sigma \chi \varepsilon \delta 1 \alpha \sigma \tau \varepsilon i ́ ~ \gamma ı \alpha ~ v \alpha ~ \varepsilon \xi \alpha \sigma \sigma \varphi \alpha \lambda i \zeta \varepsilon ı ~ v \psi \eta \lambda o ́ ~ \varepsilon \pi i ́ \pi \varepsilon \delta о ~ \pi \rho о \sigma \tau \alpha \sigma i ́ \alpha s ~ \gamma ı \alpha ~ \tau \eta \nu ~ \alpha v \theta \rho o ́ \pi ı \nu \eta$




1. $\delta \varepsilon v$ غ́ $\chi \varepsilon ı ~ \varepsilon \pi ı \beta \lambda \alpha \beta \varepsilon i ́ \varsigma ~ \varepsilon \pi ı \tau \tau \omega ́ \sigma \varepsilon ı \varsigma ~ \sigma \tau о \cup \varsigma ~ \kappa \alpha \tau \alpha v \alpha \lambda \omega \tau \varepsilon ́ \varsigma, ~ \tau о \cup \varsigma ~ \alpha \gamma \rho о ́ \tau \varepsilon \varsigma ~ \kappa \alpha ı ~ \tau о v \varsigma ~$

2. $\delta \varepsilon v \pi \rho о \kappa \alpha \lambda \varepsilon i ́ \alpha \pi \alpha \rho \alpha ́ \delta \varepsilon \kappa \tau \varepsilon \varsigma ~ \varepsilon \pi ı \pi \tau \omega ́ \sigma \varepsilon ı \varsigma ~ \sigma \tau о ~ \pi \varepsilon \rho ı \beta \alpha ́ \lambda \lambda о \nu$






















 ообíєऽ $\pi . \chi$. $\mu \kappa \rho о о р \gamma \alpha v ı \mu$ ои́s.









 орү $\alpha v ı \mu$ оv́s $\pi$ оv $\delta \varepsilon v$ бтоұєv́ovv, $\tau \eta v \alpha v \theta \rho \omega ́ \pi ı v \eta ~ v \gamma \varepsilon i ́ \alpha ~ к \alpha ı ~ \tau о ~ \pi \varepsilon \rho ı ß \alpha ́ \lambda \lambda о v . ~$




 $\varepsilon \xi \alpha i ́ \rho \varepsilon \sigma \eta$. T $\alpha \pi \alpha \rho \alpha ́ \sigma ı \tau \alpha ~(\pi о v ~ \pi \varepsilon \rho ı \lambda \alpha \mu \beta \alpha ́ v o v v ~ \varepsilon ́ v \tau о \mu \alpha ~ \kappa \alpha ı ~ \sigma ט v \alpha \varphi \eta ́ ~ \zeta ต ́ \alpha, ~ \pi \alpha \rho \alpha ́ \gamma о v \tau \varepsilon \varsigma ~$


 $\tau \varepsilon \lambda \varepsilon \cup \tau \alpha i ́ \alpha ~ \chi \rho o ́ v i \alpha, \pi \varepsilon \rho ı \sigma \sigma o ́ \tau \varepsilon \rho о ~ \alpha \pi o ́ ~ \pi о \tau \varepsilon ́, ~ \pi \alpha \rho \alpha \tau \eta \rho \varepsilon i ́ \tau \alpha ı ~ \mu 1 \alpha ~ \sigma \eta \mu \alpha \nu \tau ı к \eta ́ ~ \alpha v \alpha ́ \pi \tau v \xi ॄ \eta$


[^0]


## 

 тט́то $\tau \omega v \pi \alpha \rho \alpha \sigma i ́ \tau \omega v \pi \circ v \varepsilon \lambda \varepsilon ́ \gamma \chi \circ \cup v$（Пívакаऽ 1）．


KATHГOPIA
AАГIOKTONA

ANTIMIKPOBIAKA
EAKYETIKA

## BIOПAPALITOKTONA

BIOKTONA АПОФУААЛТIKА

## АПОЕНРANTIKA

## АПОАYMANTIKA

MYKHTOKTONA
YПOKAПNIETIKA

## ZIZANIOKTONA

## PY＠MIETIKOI ПAPAГONTE ANAПTYEHE

## ENTOMOKTONA

## ПЕРІГРАФН

इкотต́vovv 甲v́кıа бє $\lambda i ́ \mu v \varepsilon \varsigma, ~ к \alpha v \alpha ́ \lambda ı \alpha, ~$ $\pi \iota \sigma i v \varepsilon \varsigma, \delta \varepsilon \xi \alpha \mu \varepsilon v \varepsilon ́ \varsigma ~ v \varepsilon \rho о v ́ ~ к \alpha l ~ \alpha ́ \lambda \lambda \varepsilon \varsigma \varsigma$ толоөєбíधऽ．
इкотө́vovv $\mu$ кроорүаviбнои́s ó $\pi \omega \varsigma$ $\beta \alpha \kappa \tau \eta ́ \rho ı \alpha$ каı ıós．
Парабט́povv opүаvıбноv́s $\sigma \varepsilon \quad \mu \alpha$ $\pi \alpha \gamma i \delta \alpha$ ŋ́ $\delta o ́ \lambda \omega \mu \alpha$ ，$\gamma 1 \alpha$ $\pi \alpha \rho \alpha ́ \delta \varepsilon \gamma \gamma \mu \alpha$ ，
 $\mu 1 \alpha \pi \alpha \gamma^{\delta} \delta \alpha$ ．
Проє́рхоขтаı ало́ 甲ибוка́ v $\lambda \iota<\alpha ́$ о́ $\pi \omega \varsigma$
 $\mu \varepsilon ́ \tau \alpha \lambda \lambda \alpha$ ．

Прока入ои́v $\pi \tau \dot{\sigma} \sigma \eta$ $\sigma \tau \alpha$ 甲v́入入а $\mathfrak{\eta} \tau о$甲v́ $\lambda \lambda \omega \mu \alpha \alpha \pi$ ó $\varepsilon v \alpha$ 甲vтó，$\sigma v v \eta ́ \theta \omega s ~ \gamma 1 \alpha v \alpha$


甲ขтóv．
इкото́vovv ŋ́ $\quad \alpha \delta \rho \alpha v$ тоюои́v $\mu 1 к \rho о о \rho \gamma \alpha v i \sigma \mu о$ и́s $\pi о v \quad \pi \alpha \rho \alpha ́ \gamma о v \nu$ $\alpha \sigma \theta \varepsilon ́ v \varepsilon เ \varepsilon \varsigma ~ \sigma \varepsilon \alpha \dot{\alpha} \beta 1 \alpha \alpha \nu \tau \iota \kappa \varepsilon \not ́ \mu \varepsilon v \alpha$ ．
ミкото́vouv $\mu$ и́кๆтє૬．
 $\pi \rho о о \rho i \zeta о \nu \tau \alpha 1 \quad v \alpha \quad \kappa \alpha \tau \alpha \sigma \tau \rho \varepsilon ́ \psi о \nu v$ $\pi \alpha \rho \alpha ́ \sigma ı \tau \alpha, \sigma \varepsilon \kappa \tau i ́ \rho ı \alpha$ ท́ $\sigma \tau о$ દ́ $\delta \alpha \varphi о \varsigma$.

 $\varepsilon \pi \imath \theta \nu \mu \eta \tau \alpha ́$.
 $\tau \omega \nu \varepsilon v \tau o ́ \mu \omega \nu$ ŋ́ $\alpha \lambda \lambda \varepsilon \varsigma \delta 1 \alpha \delta ı \kappa \alpha \sigma i ́ \varepsilon \varsigma ~ \tau \eta \varsigma$ $\zeta \omega \eta ́ s \tau \omega v$ عvтó $\mu \omega v$ ．
ミкотต́vouv ह́vто $\alpha$ ．

| AKAPEOKTONA | 甲ขто́ каı ఢம́a． |
| :---: | :---: |
| MIKPOBIAKA ФYTОФАРМАКА | Eívaı $\mu$ ккооорүаvıб $\mu$ ó $\pi$ оv бкотळ́vovv， $\alpha v \alpha \sigma \tau \varepsilon ́ \lambda \lambda o u v \quad \grave{\eta} \quad \alpha v \tau \alpha \gamma \omega v i ́ \zeta o v \tau \alpha ı$ $\pi \alpha \rho \alpha ́ \sigma \iota \tau \alpha, \quad \sigma v \mu \pi \varepsilon \rho \iota \lambda \alpha \mu \beta \alpha v \rho \mu \varepsilon ́ v \omega v$ $\varepsilon v \tau o ́ \mu \omega v \quad$ ŋ́ $\dot{\alpha} \lambda \lambda \omega v \quad \pi \alpha \rho \alpha \sigma i ́ \tau \omega v$ $\mu ı к \rho о о р \gamma \alpha v ı \sigma \mu$ ю́v． |
| KOXAIOAEIMAKOKTONA | ミкото́vovv $\quad \sigma \lambda \lambda \gamma \kappa \alpha ́ \rho l \alpha \quad \kappa \alpha \iota$ $\gamma \nu \mu \nu о \sigma \alpha ́ \lambda ı \alpha \gamma \kappa \varepsilon \varsigma$. |
| NHMATOKTONA |  |
| $\Omega O K T O N A$ |  |
| ФEPOMONE | $\Delta$ iата $\alpha ́ \sigma \sigma o v v ~ \tau \eta ~ \sigma о \mu \pi \varepsilon \rho \iota \varphi о \rho \alpha ́ ~$ ఢєvүаро́ $\mu \alpha \tau о \varsigma \tau \omega v$ عvто́ $\mu \omega v$. |
| PYOMIETE $\quad$ ANAITTYEHE ФYTתN | М $\varepsilon \tau \alpha \beta \alpha ́ \lambda \lambda o v v$ тov $\alpha v \alpha \mu \varepsilon v o ́ \mu \varepsilon v o ~ \rho v \theta \mu o ́$ $\alpha v \alpha ́ \pi \tau v \xi ̌ \eta \varsigma, \quad \alpha v$ Өочорías $\quad$ ŋ́ <br>  $\pi \varepsilon \rho i \lambda \alpha \mu \beta \alpha ́ v \varepsilon ı \lambda(\pi \alpha ́ \sigma \mu \alpha \tau \alpha)$ ． |
| ФYTIKA ENEQMATRMENA ПPOETATEYTIKA | Eívar ovđí\＆ऽ $\pi$ оv $\pi \alpha \rho \alpha ́ \gamma o v v ~ \tau \alpha ~ \varphi v \tau \alpha ́ ~ \alpha \pi o ́ ~$ $\gamma \varepsilon v \varepsilon \tau \iota \kappa o ́ ~ v \lambda ı \kappa o ́ ~ \pi о ง ~ \varepsilon ́ \chi \varepsilon ı ~ \pi \rho о \sigma \tau \varepsilon \theta \varepsilon i ́ ~ \sigma \tau о ~$甲итó． |
| АПऽ＠НТIKА |  |
| MYOKTONA |  |





 $\tau \eta v \pi \alpha \tau \alpha ́ \tau \alpha, 30 \%$ бто $\sigma \tau \alpha ́ \rho ı ~ к \alpha ı ~ 26 \% ~ \sigma \tau \eta ~ \sigma o ́ \gamma ı \alpha . ~ П р о к \alpha \lambda о и ́ v \tau \alpha ı ~ \varepsilon \pi i ́ \sigma \eta \varsigma ~ \sigma \eta \mu \alpha \nu \tau \imath к \varepsilon ́ \varsigma ~$ $\alpha \pi \omega ́ \lambda \varepsilon ı \varepsilon \varsigma ~ \alpha \pi o ́ ~ \zeta \omega ı \alpha ́ ~ \pi \alpha \rho \alpha ́ \sigma ı \tau \alpha ~ к \alpha ı ~ \alpha \sigma \theta \varepsilon ́ v \varepsilon ı \varepsilon \varsigma ~(E u r o p e a n ~ P a r l i a m e n t a r y ~ R e s e a r c h ~$ Service，2019）．
 $\pi \imath \theta \alpha v \varepsilon ́ \varsigma ~ \alpha \pi \omega ́ \lambda \varepsilon 1 \varepsilon \varsigma ~ \varepsilon ́ v \alpha ı ~ 71 \% ~ \sigma \tau \eta ~ B \Delta ~ E v \rho ต ́ \pi \eta, ~ 63 \% ~ \sigma \tau \eta ~ N ~ D ~ E v \rho ஸ ́ \pi \eta, ~ 52 \% ~ \sigma \tau \eta ~ B A ~ к \alpha ı ~$

 $\mu \pi о \rho \varepsilon i ́ v \alpha \alpha \pi о \delta о \theta \varepsilon i ́ ~ \sigma \tau \eta \nu \varepsilon v \tau \alpha \tau \iota \kappa o ́ \tau \varepsilon \rho \eta ~ \chi \rho \eta ́ \sigma \eta ~ \tau \omega \nu ~ \varphi v \tau о \varphi \alpha \rho \mu \alpha ́ \kappa \omega v$ ．Oı $\chi \alpha \mu \eta \lambda о ́ \tau \varepsilon \rho \varepsilon \varsigma$

 Parliamentary Research Service, 2019). Eठஸ́, $\mu 1 \alpha \pi \varepsilon \rho \iota \sigma \sigma o ́ \tau \varepsilon \rho о ~ \eta ́ ~ к \alpha \lambda v ́ \tau \varepsilon \rho \alpha ~$



 عठá $\varphi 0 \cup \varsigma)$.








 $\pi \varepsilon \rho ı \chi \varepsilon ́ \varsigma$, о́ оооv $\pi \alpha \rho \alpha ́ \gamma о v \tau \alpha ı ~ \tau \alpha ~ \pi \varepsilon \rho ı \sigma \sigma o ́ \tau \varepsilon \rho \alpha ~ \sigma ı \tau \eta \rho \alpha ́ . ~ Е \pi ı \pi \lambda \varepsilon ́ o v, ~ \varepsilon i ́ v \alpha ı ~ \pi ı \theta \alpha v o ́ v, ~ v \varepsilon ́ \alpha ~$



 $\lambda$ v́бєıs.

 $\delta ı \alpha \varphi о \rho \varepsilon \tau ı \kappa \alpha ́ ~ \varepsilon \pi i ́ \pi \varepsilon \delta \alpha ~ \beta \rho о \chi о \pi \tau ஸ ́ \sigma \varepsilon \omega v ~(M e i t e ~ e t ~ a l . ~ 2018), ~ \kappa \alpha \tau \alpha ́ ~ \varphi \theta i ́ v o v \sigma \alpha ~ \sigma \varepsilon \iota \rho \alpha ́: ~$



 $\pi \rho о \sigma \pi \alpha ́ \theta \varepsilon ı \alpha \varsigma ~ \eta ́ ~ \varepsilon v \varepsilon ́ \rho \gamma \varepsilon ı \alpha \varsigma ~ \sigma v \mu \pi v ́ \kappa v \omega \sigma \eta \varsigma ~ \pi о v ~ о \delta \eta \gamma \varepsilon \varepsilon ́ ~ \sigma \varepsilon ~ \beta \varepsilon ́ \lambda \tau ı \sigma \tau \eta ~ \pi \varepsilon \rho ı \varepsilon к \tau ı к о ́ \tau \eta \tau \alpha ~ \sigma \varepsilon ~$ veคó.

 $\pi \alpha \vartheta о ү o ́ v \alpha$ каı 弓しろávıа（Oerke，2006）







 $\mu \varepsilon \gamma \alpha ́ \lambda о \beta \alpha \theta \mu o ́ \alpha \pi o ́ ~ \tau \eta \nu ~ к \alpha \lambda \lambda ı \varepsilon ́ \rho \gamma \varepsilon ı \alpha, ~ \tau \eta \nu ~ \pi \varepsilon \rho ı о \chi \eta ́ ~ к \alpha ı ~ \tau \eta \nu ~ \pi ı \theta \alpha \nu \eta ́ ~ \alpha \pi o ́ \delta o \sigma \eta . ~ M ı \alpha$


















 $\pi \rho о \sigma \alpha \rho \mu о \sigma \mu \varepsilon ́ v \alpha$ бטбтŋ́ $\mu \alpha \tau \alpha \kappa \alpha \lambda \lambda 1 \varepsilon ́ \rho \gamma \varepsilon 1 \alpha \varsigma$.
$\Sigma ט ́ \mu \varphi \omega v \alpha \mu \varepsilon$ тovs Lechenet et al．（2014）$\eta \mu \varepsilon \iota \omega \mu \varepsilon ́ v \eta$ хрŋ́бך $\pi \rho о і ̈ o ́ v \tau \omega v$
 $\tau \omega v$ аротраí $\omega \nu$ ка入入ıєрүєוف́v $\sigma \tau \eta$ Г $\alpha \lambda \lambda i ́ \alpha ~ \sigma \tau о ~ 77 \% ~ \tau \omega \nu ~ \alpha \gamma \rho о к \tau \eta \mu \alpha ́ \tau \omega v ~ \pi о v ~$





 $\sigma ט ́ \mu \varphi \omega v \alpha \mu \varepsilon \tau 0 v \varsigma$ Jacquet et al．（2010），$\eta \mu \varepsilon i ́ \omega \sigma \eta \tau \omega v \pi \rho о$ óv $\tau \omega \nu$ 甲vтолробтабías


 $\varepsilon \pi \imath \tau \varepsilon \cup \chi \theta \varepsilon i ́ ~ \alpha v \tau o ́ s ~ o ~ \sigma \tau o ́ \chi о \varsigma, ~ o l ~ к \alpha \lambda \lambda ı \varepsilon \rho \gamma о v ́ \mu \varepsilon v \varepsilon \varsigma ~ \varepsilon \kappa \tau \alpha ́ \sigma \varepsilon ı \varsigma ~ \varepsilon ́ \pi \rho \varepsilon \pi \varepsilon ~ v \alpha ~ \varepsilon \lambda \varepsilon \gamma \chi \theta$ ои́v




 $\theta \varepsilon \omega \rho \varepsilon і ́ \tau \alpha \iota ~ \sigma \eta \mu \alpha \nu \tau \iota к \eta$ ．


 $\alpha \gamma \rho о \tau \omega ́ v$. По $\lambda \lambda \varepsilon ́ \varsigma ~ \mu \varepsilon \lambda \varepsilon ́ \tau \varepsilon \varsigma ~ \delta \varepsilon i ́ \chi v o u v ~ \alpha \sigma u v \varepsilon \pi \eta ́ ~ \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \sigma \chi \varepsilon \tau \iota \kappa \alpha ́ \mu \varepsilon ~ \tau \eta v \varepsilon \pi i ́ \delta \rho \alpha \sigma \eta$

 $\pi \alpha \rho \alpha \gamma \omega \gamma o i ́ ~(v \psi \eta \lambda o ́ \tau \varepsilon \rho \eta ~ \chi \rho \eta ́ \sigma \eta)$ (Lechenet et al., 2014).









 $\pi \varepsilon \rho \iota \sigma \sigma o ́ \tau \varepsilon \rho \eta \pi \rho о \sigma о \chi \eta ́ . ~ T \alpha ~ \pi \rho \omega ́ \tau \alpha ~ \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \delta \varepsilon i ́ \chi v o v v ~ o ́ \tau ı ~ \varepsilon i ́ v \alpha ı ~ \pi о \lambda \lambda \alpha ́ ~$




 $\varepsilon \pi \alpha \rho \kappa \eta ́ s ~ \pi \alpha \rho \alpha \kappa о \lambda о и ́ \theta \eta \sigma \eta ~ \kappa \alpha \iota ~ \kappa \alpha \lambda \alpha ́ ~ \mu о \nu \tau \varepsilon ́ \lambda \alpha ~ \pi \rho o ́ ß \lambda \varepsilon \psi \eta \zeta$.

## ミク́ $\mu \alpha v \sigma \eta \pi \rho o i ̈ o ́ v \tau \omega v$





 $\alpha \pi \varepsilon ı \kappa$ ví̧ovial ol кívסuvol.

- Провı $\delta о \pi о џ \tau \iota к \eta ́ ~ \lambda \varepsilon ́ \xi ŋ \eta: ~ A v \tau o ́ ~ \delta \varepsilon і ́ \chi v \varepsilon ı ~ \tau \omega ́ \rho \alpha ~ \tau \eta ~ \sigma о \beta \alpha \rho o ́ \tau \eta \tau \alpha ~ \tau о v ~ к ı v \delta u ́ v o v ~ \pi . \chi . ~$
 "Тоз̆ко́".
 $\sigma u ́ \gamma \kappa \rho \iota \sigma \eta ~ \mu \varepsilon \tau \varepsilon ́ \sigma \sigma \varepsilon \rho ı \varsigma ~ \varphi \rho \alpha ́ \sigma \varepsilon ı \varsigma ~ \kappa เ v \delta v ́ v o v ~ \sigma \tau о ~ \pi \alpha \lambda ı o ́ ~ D S D . ~$
 $\chi р \eta \sigma \mu о \pi о \not ŋ \theta \varepsilon i ́$.
 1107/2009 $\varepsilon v \delta \varepsilon ́ \chi \varepsilon \tau \alpha ı ~ \varepsilon \pi i ́ \sigma \eta \varsigma ~ v \alpha ~ \alpha \pi \alpha ı \tau о v ́ v ~ \pi \rho o ́ \sigma \theta \varepsilon \tau \eta ~ \varepsilon \pi ı \sigma \eta ́ \mu \alpha v \sigma \eta ~ \delta ı \alpha \chi \varepsilon i ́ p ı \sigma \eta s ~$
 каı $\delta \iota \alpha \sigma \tau \eta \mu \alpha \tau \alpha$ боүкоцıбף́s.

 CLP, 2020):



## Гєvıкє́ऽ $\pi \lambda \eta \rho о \varphi о \rho i ́ \varepsilon \varsigma$








 аvóүкпร.
 об $\eta \gamma \dot{\varepsilon} \varepsilon \varsigma \pi \rho \imath v \alpha \pi o ́ ~ \tau \eta ~ \chi \rho \eta ́ \sigma \eta »$.

- Tótos $\delta \rho \alpha ́ \sigma \eta s ~ \tau о v ~ \varphi v \tau о \pi \rho о б \tau \alpha \tau \varepsilon v \tau ı к о и ́ ~ \pi \rho о і ̈ o ́ v \tau о s ~(\pi . \chi . ~ \varepsilon v \tau о \mu о к т о ́ v о, ~$
 סрáбๆร.
 $\sigma \nu \mu \pi v ́ \kappa v \omega \mu \alpha \kappa . \lambda \pi$.).

 $\chi \rho \eta \sigma \mu о \pi о \not ŋ \theta \varepsilon i ́ ~ \eta ́ ~ \delta \varepsilon v ~ \pi \rho \varepsilon ́ \pi \varepsilon \iota ~ v \alpha ~ \chi \rho \eta \sigma \mu о \pi о э \eta \theta \varepsilon i ́ . ~$
甲итол $о \sigma \tau \alpha \tau \varepsilon \cup \tau \iota к о ́ ~ \pi \rho о і ̈ o ́ v ~(\pi . \chi . ~ \varepsilon \pi \alpha \gamma \gamma \varepsilon \lambda \mu \alpha \tau i \varepsilon \varsigma, ~ \varepsilon \rho \alpha \sigma \iota \tau \varepsilon ́ \chi \nu \varepsilon \varsigma) . ~$
 $\alpha \pi \alpha ı \varepsilon$ ít $\alpha 1, \tau \eta \varsigma ~ \mu \varepsilon ́ \gamma ı \sigma \tau \eta \varsigma ~ \delta o ́ \sigma \eta \varsigma ~ \alpha v \alpha ́ ~ \varepsilon \kappa \tau \alpha ́ \rho ı o ~ \alpha v \alpha ́ ~ \varepsilon \varphi \alpha \rho \mu о \gamma \eta ́ ~ к \alpha ı ~ \tau о v ~ \mu \varepsilon ́ \gamma ı \tau \tau о v ~$


 $\kappa \alpha \lambda \lambda \iota \varepsilon ́ \rho \gamma \varepsilon ı \alpha \varsigma ~ / ~ \sigma \pi о \rho \alpha ́ ~ \eta ́ ~ \varphi v ́ \tau \varepsilon v \sigma \eta ~ \tau \omega v ~ \varepsilon \pi о ́ \mu \varepsilon v \omega v ~ к \alpha \lambda \lambda ı \varepsilon \rho \gamma \varepsilon ı \dot{v ~ / ~} \pi \rho o ́ \sigma \beta \alpha \sigma \eta$

- $\Lambda \varepsilon \pi \tau о \mu \varepsilon ́ \rho \varepsilon ⿺ \varepsilon \varsigma ~ \gamma i \alpha ~ \pi ı \theta \alpha v \eta ́ ~ \varphi \cup \tau о \tau о \xi ̆ ю о ́ т \eta \tau \alpha, ~ \varepsilon v \alpha ı \sigma \theta \eta \sigma i ́ \alpha ~ \sigma \tau \eta \nu ~ \pi о ю к \lambda \lambda i \alpha ~ к \alpha ı ~$ тטұо́v $\alpha \lambda \lambda \varepsilon \varsigma ~ \alpha ́ \mu \varepsilon \sigma \varepsilon \varsigma ~ \eta ́ ~ \varepsilon ́ \mu \mu \varepsilon \sigma \varepsilon \varsigma ~ \alpha \rho \vee \eta \tau ı к \varepsilon ́ \varsigma ~ \pi \alpha \rho \varepsilon v \varepsilon ́ \rho \gamma \varepsilon ı \varepsilon \varsigma ~ \sigma \varepsilon ~ \varphi \cup \tau \alpha ́ ~ \eta ́ ~ \pi \rho о і ̈ o ́ v \tau \alpha ~$




- 'Oлоv єívaı $\alpha \pi \alpha \rho \alpha i ́ \tau \eta \tau, ~ \eta ~ \eta \mu \varepsilon \rho о \mu \eta v i ́ \alpha ~ \lambda \eta ŋ \eta \eta \varsigma ~ \gamma ı \alpha ~ \tau ı \varsigma ~ \sigma u v \eta ́ \theta \varepsilon ı \varsigma ~ \sigma u v \theta \eta ́ к \varepsilon \varsigma ~$ $\alpha \pi \circ$ Ǿккеvбŋร.

 $\mu \varepsilon$ tov каvovıб $\mu$ ó REACH).


## 


 vтокатпүорі́єऽ:

о Eiঠıкоí кívסvvoı $\pi$ ov $\sigma \chi \varepsilon \tau i ́ \zeta o v \tau \alpha ı \mu \varepsilon ~ \tau o v ~ \alpha ́ v \theta \rho \omega \pi o ~(R S h) . ~$.
о Eıঠıкоі́ кívסvvoı $\pi$ оv $\sigma \chi \varepsilon \tau i ́ \zeta o v \tau \alpha ı ~ \mu \varepsilon ~ \tau о ~ \pi \varepsilon \rho ı \beta \alpha ́ \lambda \lambda о v ~(R S e) . ~$




 (SPA).
о Еı $\delta \iota \kappa \varepsilon ́ \varsigma ~ \pi \rho о \varphi \cup \lambda \alpha ́ \xi \varepsilon เ \varsigma ~ \alpha \sigma \varphi \alpha \lambda \varepsilon i ́ \alpha \varsigma ~ \gamma ı \alpha ~ \tau \alpha ~ \tau \rho \omega \kappa \tau \iota к о к \tau о ́ v \alpha ~(S P r) . ~$

 толототиц́vєऽ $\varphi$ ро́бєıऽ.



| Hazard pictograms under CLP | Danger symbols under DSD |
| :---: | :---: |
|  |  |
| Signal word: | Indications of danger: |
| Danger | Toxic <br> Dangerous for the environment |
| 5 Hazard statements under CLP | 4 Risk phrases under DSD |
| Toxic if swallowed or if inhaled ${ }^{5}$ | Toxic by inhalation and if swallowed |
| Causes severe skin burns and eye damage | Causes burns |
| May cause an allergic skin reaction | May cause sensitisation by inhalation and by skin contact |
| May cause allergy or asthma symptoms or breathing difficulties if inhaled |  |
| Very toxic to aquatic life | Very toxic to aquatic organisms |
| Selection from ca. 30 precautionary statements | S: (1/2-)26-36/37/39-45-61 |





## H O入ок入np $\omega \mu \varepsilon ́ v \eta ~ \delta ı \alpha \chi \varepsilon i ́ p ı \sigma \eta ~ \pi \alpha \rho \alpha \sigma i ́ t \omega v ~$

＇Evas á $\lambda \lambda$ os $\sigma \eta \mu \alpha v \tau ı \kappa o ́ s ~ к \alpha v o v i \sigma \mu o ́ s ~ \tau \eta s ~ E . E . ~ \sigma \tau о v ~ \tau о \mu \varepsilon ́ \alpha ~ \tau \eta \varsigma ~ \pi \rho о \sigma \tau \alpha \sigma i ́ \alpha s ~ \tau \omega v ~$ ка入入ıєрүєเต́v $\pi \varepsilon \rho ı \lambda \alpha \mu \beta \alpha ́ v \varepsilon ı ~ \tau \eta \nu ~ \varepsilon \varphi \alpha \rho \mu о \gamma \eta ́ ~ \tau \eta \varsigma ~ О \lambda о к \lambda \eta \rho \omega \mu \varepsilon ́ v \eta \varsigma ~ \Delta ı \alpha \chi \varepsilon i ́ \rho ı \sigma \eta \varsigma ~$

 $\varepsilon \lambda \varepsilon ́ \gamma \chi \sigma v \pi \alpha \rho \alpha \sigma i ́ t \omega v$ каı $\eta$ $\mu \varepsilon \tau \varepsilon ́ \pi \varepsilon \iota \tau \alpha ~ \varepsilon v \sigma \omega \mu \alpha ́ \tau \omega \sigma \eta ~ \kappa \alpha \tau \alpha ́ \lambda \lambda \eta \lambda \omega \nu ~ \mu \varepsilon ́ \tau \rho \omega v ~ \pi о v$











 $\tau \omega v \delta \rho \alpha ́ \sigma \varepsilon \omega v \pi 0 v$ opí̧ov $\alpha \alpha \iota ~ \sigma \tau \eta v$ O $\delta \eta \gamma i ́ \alpha$ (Commission, 2019).








 $\pi ı$ влı入єктько́ $\pi \rho о і ̈ о ́ v \tau \alpha, \pi \rho о \tau \rho \varepsilon ́ \pi о v \tau \alpha \varsigma ~ \varepsilon \pi \alpha \nu \alpha \lambda \alpha \mu \beta \alpha v o ́ \mu \varepsilon v \varepsilon \varsigma ~ \varepsilon \varphi \alpha \rho \mu о \gamma \varepsilon ́ \varsigma ~ \eta ́ ~ \mu i ́ \gamma \mu \alpha \tau \alpha$
 (Commission, 2019).



















 д́ $\mu \varepsilon \sigma \alpha$ $\sigma \tau \eta \gamma \varepsilon \omega p \gamma i ́ \alpha$ каı $\varepsilon ́ \mu \mu \varepsilon \sigma \alpha ~ \sigma \tau \eta \nu$ коıvตvía (Ehi-Eromosele, Nwinyi, \& Ajani, 2013).







- H IPM $\beta \varepsilon \lambda \tau \imath \omega ́ v \varepsilon ı ~ \tau о ~ \kappa \varepsilon ́ \rho \delta o \varsigma . ~ \Delta \varepsilon \delta о \mu \varepsilon ́ v o v ~ o ́ \tau ı ~ \tau о ~ \pi \rho o ́ \gamma \rho \alpha \mu \mu \alpha ~ I P M ~ \varepsilon \varphi \alpha \rho \mu o ́ \zeta ̌ є ~ \tau ı \varsigma ~$




 $\alpha \pi o ́ ~ \pi \alpha \rho \alpha ́ \sigma \iota \tau \alpha$.
 бє тонвís $\alpha \pi \alpha \sigma \chi o ́ \lambda \eta \sigma \eta \varsigma, ~ \delta \eta \mu o ́ \sigma ા \alpha \varsigma ~ v \gamma \varepsilon i ́ \alpha \varsigma ~ к \alpha ı ~ \varepsilon \cup \eta \mu \varepsilon \rho i ́ \alpha \varsigma ~ \alpha \tau о ́ \mu \omega v ~ \pi о v ~$

 $\mu \varepsilon ́ \chi \rho \imath ~ \sigma \tau \imath \gamma \mu \eta ́ \varsigma, ~ v \pi \alpha ́ \rho \chi o v v ~ \varepsilon \pi i ́ \sigma \eta \varsigma ~ o \rho ı \sigma \mu \varepsilon ́ v \alpha ~ \mu \varepsilon ı о v \varepsilon \kappa \tau \eta ́ \mu \alpha \tau \alpha ~(E h i-E r o m o s e l e ~ e t ~ a l ., ~$ 2013):
- 'Eva $\pi \rho o ́ \gamma \rho \alpha \mu \mu \alpha$ IPM $\alpha \pi \alpha ı \tau \varepsilon i ́ ~ v \psi \eta \lambda o ́ \tau \varepsilon \rho o ~ \beta \alpha \theta \mu o ́ ~ \delta ı \alpha \chi \varepsilon i ́ p ı \sigma \eta s . ~ H ~ \lambda \eta ́ \psi \eta ~$
 $\alpha \pi \alpha ı \tau \varepsilon i ́ ~ \pi \rho о \eta \gamma \mu \varepsilon ́ v o ~ \sigma \chi \varepsilon \delta \iota \alpha \sigma \mu o ́ ~ к \alpha l ~ \omega \varsigma ~ \varepsilon \kappa ~ \tau о и ́ \tau о v, ~ v \psi \eta \lambda o ́ \tau \varepsilon \rho o ~ \beta \alpha \theta \mu o ́ ~$
 $\kappa \alpha \lambda \lambda 1 \varepsilon ́ \rho \gamma \varepsilon \omega_{\varsigma} \gamma 1 \alpha \tau \eta \nu \pi \rho o ́ \beta \lambda \varepsilon \psi \eta \pi \rho о \beta \lambda \eta \mu \alpha ́ \tau \omega \nu \alpha \pi o ́ ~ \varepsilon \pi \kappa \beta \lambda \alpha \beta \varepsilon i ́ \varsigma ~ о \rho \gamma \alpha \nu \iota \sigma \mu о v ́ \varsigma$,

 $\alpha v \alpha \mu \varepsilon v o ́ \mu \varepsilon v \varepsilon \varsigma ~ \zeta \eta \mu \varepsilon \varepsilon ́ \varsigma ~ \alpha \pi o ́ ~ \pi \alpha \rho \alpha ́ \sigma i \tau \alpha, ~ \varepsilon v \omega ́ ~ \theta \alpha ~ \delta i ́ v o v v ~ \sigma \tau \eta \nu ~ к \alpha \lambda \lambda i \varepsilon ́ \rho \gamma \varepsilon ા \alpha ~$

 $\alpha v i ́ \chi v \varepsilon v \sigma \eta ~ \pi \varepsilon \delta i ́ o v ~ \alpha \pi \alpha ı \tau \varepsilon i ́ ~ \chi \rho o ́ v o . ~ \Omega \sigma \tau o ́ \sigma o, ~ \alpha v \tau \varepsilon ́ s ~ o l ~ \pi \lambda \eta \rho о \varphi о \rho i ́ \varepsilon \varsigma ~ \varepsilon i ́ v \alpha ı ~$
 X $\omega \rho i ́ \varsigma ~ \alpha v \tau \varepsilon ́ \varsigma ~ \tau ı \varsigma ~ \pi \lambda \eta \rho о \varphi о р i ́ \varepsilon \varsigma ~ \delta \varepsilon v ~ \varepsilon i ́ v \alpha ı ~ \delta v v \alpha \tau \eta ́ ~ \eta ~ \lambda \eta ́ \psi \eta ~ \varepsilon ́ \xi \cup \pi \nu \omega v ~ \alpha \pi о \varphi \alpha ́ \sigma \varepsilon \omega v ~$ бıaxeipions.





 $\varepsilon \vee \alpha \lambda \lambda \alpha \kappa \tau \iota \kappa o ́ ~ \sigma \chi \varepsilon ́ \delta \iota \circ ~ \sigma \varepsilon ~ \pi \varepsilon \rho i ́ \pi \tau \omega \sigma \eta ~ \varepsilon \mu \varphi \alpha ́ v \iota \sigma \eta \varsigma ~ \tau \varepsilon ́ \tau о เ \omega v ~ \pi \rho о \beta \lambda \eta \mu \alpha ́ \tau \omega v$.


## Кєфа́入 $\alpha$ เо $2^{\circ}$ - Вı $\beta \lambda ı о ү \rho \alpha ф ı к \grave{~}$ єாıбкórпбп

Н $\beta \imath \beta \lambda \imath о \gamma \rho \alpha \varphi i ́ \alpha ~ \varepsilon ́ \chi \varepsilon ı ~ \alpha \sigma \chi о \lambda \eta \theta \varepsilon i ́ ~ \varepsilon \pi ı \sigma \tau \alpha \mu \varepsilon ́ v \omega \varsigma ~ \mu \varepsilon ~ \tau \alpha ~ \varepsilon \pi i ́ \pi \varepsilon \delta \alpha ~ \gamma \nu \omega ́ \sigma \eta s ~ к \alpha ı ~ \tau ı s ~$



 каӨорıбтıко́ ро́ $\lambda о$ бтıऽ $\alpha \sigma \varphi \alpha \lambda \varepsilon i ́ \varsigma ~ \varepsilon \rho \gamma \alpha \sigma i ́ \varepsilon \varsigma ~ \psi є к \alpha \sigma \mu о v ́ ~ \sigma \varepsilon ~ \alpha \gamma \rho о к т \eta ́ \mu \alpha \tau \alpha, ~ \alpha \lambda \lambda \alpha ́ ~ \lambda i ́ \gamma \alpha ~$











 $\alpha \rho \vee \eta \tau \iota \alpha \alpha(\mathrm{P}<0.01) \mu \varepsilon \alpha v \tau \varepsilon ́ \varsigma \tau \iota \varsigma \mu \varepsilon \tau \alpha \beta \lambda \eta \tau \varepsilon ́ \varsigma$.















甲оточа́риака вívaı $\alpha \pi \alpha \rho \alpha i ́ \tau \eta \tau \varepsilon \varsigma ~ \gamma ı \alpha ~ \tau \eta ~ \beta \varepsilon \lambda \tau i ́ \omega \sigma \eta ~ \tau \eta \varsigma ~ \sigma \nu \mu \pi \varepsilon \rho ı \varphi о \rho \alpha ́ \varsigma ~ \alpha \sigma \varphi \alpha ́ \lambda \varepsilon ı \alpha \varsigma ~ \tau \omega v$
























 Прє́лєє va $\pi \rho о \omega \theta \eta$ Өои́v oı $\pi \lambda \eta \rho о ч о \rho i ́ \varepsilon \varsigma ~ \gamma ı \alpha ~ \tau \alpha ~ \varphi \cup \tau о \varphi \alpha ́ \rho \mu \alpha к \alpha, ~ o l ~ о \delta \eta \gamma i ́ \varepsilon \varsigma ~ к \alpha ı ~ \eta ~$





 каı 甲ขбıко́ $\pi \varepsilon \rho ı \beta \dot{\alpha} \lambda \lambda$ оv $\alpha \pi \alpha ı \tau \varepsilon i ́ ~ \tau \eta \nu ~ к \alpha \tau \alpha ́ \lambda \lambda \eta \lambda \eta ~ \alpha v \alpha \gamma v ต ́ \rho ı \sigma \eta ~ \tau \eta \varsigma ~ \sigma v \mu \pi \varepsilon \rho ı \varphi о \rho \alpha ́ \varsigma ~ к \alpha ı ~$





 $\alpha \gamma \rho о к \tau \eta \mu \alpha ́ \tau \omega v$ б $\tau \eta \nu$ По $\lambda \omega v i ́ \alpha$ бтo Farm Accountancy Data Network (FADN). M $\varepsilon$
 $\alpha \pi$ отроти́ऽ кıvঠúvov.
 $\mu \varepsilon \gamma \alpha ́ \lambda \eta ~ \alpha \pi о \sigma \tau \rho о \varphi \eta ́ ~ \kappa ı v \delta v ́ v o v ~(S u l e w s k i ~ e t ~ a l, ~ 2020) . ~ H ~ \sigma \tau \alpha ́ \sigma \eta ~ \tau o v \varsigma ~ \alpha \pi \varepsilon ́ v \alpha \nu \tau ı ~ \sigma \tau о v ~$





 $\alpha \pi$ отроти́ऽ кıvঠúvov.




















 $\pi \alpha \rho \alpha к о \lambda о v ́ \theta \eta \sigma \eta$ бто Trentino, $\tau \eta \nu \varepsilon ́ \lambda \lambda \varepsilon \iota \psi \eta \pi \lambda \eta \rho \rho o v \varsigma \varepsilon \lambda \varepsilon ́ \gamma \chi \circ v \pi \alpha \rho \alpha \sigma i ́ \tau \omega \nu \sigma \tau o$ Sharon
 B $\varepsilon \sigma \tau \varphi \alpha \lambda i \alpha$.

Ot Lithourgidis et al (2016) $\pi 0 v \varepsilon \pi i ́ \sigma \eta \varsigma ~ \alpha \xi ॄ 10 \lambda o ́ \gamma \eta \sigma \alpha \nu ~ \tau \eta ~ \chi \rho \eta ́ \sigma \eta ~ \tau \omega v ~ \pi \rho о і ̈ o ́ v \tau \omega \nu$












Oı $\pi \varepsilon \rho \iota \sigma \sigma o ́ \tau \varepsilon \rho о \iota ~ \alpha \gamma \rho о ́ \tau \varepsilon \varsigma ~ \varepsilon ́ \delta \varepsilon ı \xi \alpha \nu ~ v \psi \eta \lambda \lambda \alpha ́ ~ \varepsilon \pi i ́ \pi \varepsilon \delta \alpha ~ \varepsilon v \alpha ı \sigma \theta \eta \tau о \pi о i ́ \eta \sigma \eta \varsigma ~ \gamma ı \alpha ~ \tau о v ~ \pi ı \theta \alpha v o ́$








 $\chi \rho \eta ́ \sigma \eta ~ \varphi v \tau о \varphi \alpha \rho \mu \alpha ́ к \omega v, ~ \eta ~ \sigma v \mu \mu о ́ \rho \varphi \omega \sigma \eta ~ \tau \omega v ~ \alpha \gamma \rho о \tau ஸ ́ v ~ \mu \varepsilon ~ \tau ı \varsigma ~ \pi \varepsilon \rho ı \sigma \sigma о ́ \tau \varepsilon \rho \varepsilon \varsigma ~$


 $\tau \eta \sigma v \chi v o ́ \tau \eta \tau \alpha$.





 $\pi \circ \cup \beta \varepsilon \lambda \tau 1 \omega ́ v o v v ~ \tau \eta ~ \gamma \nu \omega ́ \sigma \eta ~ \tau \omega v ~ \alpha \gamma \rho о \tau \omega ́ v ~ \sigma \chi \varepsilon \tau \iota \kappa \alpha ́ ~ \mu \varepsilon ~ \tau \eta ~ \lambda i ́ \pi \alpha v \sigma \eta, ~ \tau \eta ~ \chi \rho \eta ं \sigma \eta$













 $\beta \alpha \sigma ı \kappa о ́=~ \pi \alpha \rho \alpha ́ \gamma о \nu \tau \varepsilon \varsigma ~ \pi о v ~ \varepsilon \mu \pi \lambda \varepsilon ́ \kappa о \nu \tau \alpha ı ~ \sigma \tau \eta ~ \lambda \eta ́ \psi \eta ~ \alpha \pi о \varphi \alpha ́ \sigma \varepsilon \omega \nu ~ \tau \omega \nu ~ \alpha \gamma \rho о \tau \omega ́ \nu ~ \sigma \tau \eta \nu$



 $\varepsilon \nu \tau о ́ \mu \omega v$ бє катабто́бєєऽ $\varepsilon \pi \imath \delta \eta \mu i ́ \alpha \varsigma$.






 $\tau \omega v \alpha \gamma \rho о \tau \omega ́ v \lambda \alpha \mu \beta \alpha ́ v \varepsilon \iota ~ \sigma v \mu \beta о \nu \lambda \varepsilon ́ s ~ \varphi v \tau о \pi \rho о \sigma \tau \alpha \sigma i ́ \alpha \varsigma ~ \alpha \pi о ́ ~ \varepsilon \mu \pi о ́ \rho о v \varsigma ~ \varphi v \tau о \varphi \alpha \rho \mu \alpha ́ к \omega v$, $\varepsilon v ต ́ ~ \sigma \tau о ~ N \varepsilon \pi \alpha ́ \lambda, ~ \eta ~ \pi \lambda \varepsilon ı о \psi \eta \varphi i ́ \alpha ~ \tau \omega v ~ \alpha \gamma \rho о \tau ஸ ́ v ~(69 \%) ~ \lambda \alpha \mu ß \alpha ́ v \varepsilon ı ~ \alpha \pi о \varphi \alpha ́ \sigma \varepsilon ı \varsigma ~$









 IPM $\sigma \varepsilon \varepsilon \pi i \lambda \varepsilon \gamma \mu \varepsilon ́ v \alpha ~ \chi \omega \rho ı \alpha ́ ~ \varepsilon ́ \varphi \varepsilon \rho \varepsilon ~ \mu \varepsilon i ́ \omega \sigma \eta ~ 20-65 \% ~ \sigma \tau \eta ~ \chi \rho \eta ́ \sigma \eta ~ \varphi \cup \tau о \varphi \alpha \rho \mu \alpha ́ к \omega v ~ \sigma \varepsilon ~$



H $\mu \varepsilon \lambda \varepsilon ́ \tau \eta ~ \tau \omega \nu$ Erdougan \& Gökdougan (2017) $\pi \rho \alpha \gamma \mu \alpha \tau о \pi о$ ŋ́ $\theta \eta \kappa \varepsilon ~ \pi \rho о к \varepsilon \mu \varepsilon ́ v o v ~ v \alpha$



 $\pi \varepsilon \rho ı \chi \emptyset ́ ~ M e r k e z, ~ D e r i n k u y u ~ к \alpha ı ~ U ̈ r g u ̈ p, ~ \tau о ~ 2016 . ~ \Omega \varsigma ~ \alpha \pi о \tau \varepsilon ́ \lambda \varepsilon \sigma \mu \alpha ~ \tau \eta \varsigma ~ \varepsilon ́ \rho \varepsilon v v \alpha \varsigma, ~$

 $\sigma \varepsilon \varepsilon \pi i ́ \pi \varepsilon \delta$ o $\pi \varepsilon i ́ v \alpha \varsigma . ~ O ı ~ \alpha \gamma \rho o ́ \tau \varepsilon \varsigma ~ \varepsilon \xi ̌ \varepsilon ́ \varphi \rho \alpha \sigma \alpha v$ ótı $\lambda \alpha \mu \beta \alpha ́ v o v v v \pi о \sigma \tau \eta ́ \rho ı \xi ̌ \eta ~ \alpha \pi o ́ ~ \varepsilon \mu \pi o ́ \rho o v s$







 $\beta$ ъотарабітокто́vои.














 тоv̧ $\sigma \tau \eta \nu$ vүદía $\varepsilon v$ о́s $\alpha \gamma \rho o ́ \tau \eta ~ \mu \pi о \rho о v ́ v ~ v \alpha ~ \pi \rho о \beta \lambda \varepsilon ́ \psi о v v ~ \tau \eta \nu ~ \pi \rho о \theta \nu \mu i ́ \alpha ~ \tau о v ~ \alpha \gamma \rho o ́ \tau \eta ~ v \alpha ~$



 $\kappa \alpha \tau \alpha v \alpha \lambda \omega \tau \varepsilon ́ \varsigma ~ \tau \rho о \varphi i ́ \mu \omega v$ óбо к$\alpha \iota ~ \sigma \varepsilon ~ \alpha \gamma \rho о ́ \tau \varepsilon \varsigma ~(P e t r e s c u-M a g ~ e t ~ a l ., ~ 2019) . ~$.






 (SPSS). T $\alpha$ алотє $\lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \alpha \pi о к \alpha ́ \lambda \nu \psi \alpha \nu ~ o ́ \tau ı ~ \alpha \nu ~ к \alpha ı ~ \eta ~ \sigma ט v о \lambda ı к ́ ~ к \alpha \tau \alpha v \alpha ́ \lambda \omega \sigma \eta ~$
 $\pi \alpha \rho \varepsilon ́ \mu \varepsilon ı v \alpha \nu ~ v \psi \eta \lambda \varepsilon ́ \varsigma . ~ O t ~ \pi \varepsilon \rho ı \sigma \sigma o ́ \tau \varepsilon \rho о ı ~ \alpha \pi o ́ ~ \tau o v \varsigma ~ \varepsilon \rho \omega \tau \eta \forall \varepsilon ́ v \tau \varepsilon \varsigma ~ \sigma \tau \eta \nu ~ \pi \varepsilon \rho ı \chi \emptyset ́ ~ \pi о v ~$





 $\alpha \varepsilon ́ \rho \alpha ~ к \alpha ı ~ \tau o u \varsigma ~ \omega \varphi \varepsilon ́ \lambda \mu \mu o v \varsigma ~ o \rho \gamma \alpha v ı \sigma \mu о v ́ \varsigma . ~ M o ́ v o ~ \tau o ~ 20 \% ~ \tau \omega v ~ \varepsilon \rho \omega \tau \eta \theta \varepsilon ́ v \tau \omega v ~ \varepsilon ́ \lambda \alpha \beta \varepsilon ~ \tau ı \varsigma ~$



 $\alpha \pi$ ó $\pi \alpha \rho \alpha ́ \sigma ı \tau \alpha$ (Shetty et al., 2010).

 $\gamma \varepsilon \omega \rho \gamma i ́ \alpha \varsigma ~ \sigma \tau \eta \nu$ Iv $\delta i ́ \alpha ~ \varepsilon i ́ v \alpha ı ~ \alpha \mu \varepsilon \lambda \eta \tau \varepsilon ́ \alpha . ~ Y \pi \alpha ́ \rho \chi \varepsilon ı ~ \tau \varepsilon \rho \alpha ́ \sigma \tau ı о ~ \pi \varepsilon \rho ı \theta ต ́ \rho ı o ~ \gamma ı \alpha ~ \delta \rho \alpha \sigma \tau \eta \rho ı o ́ \tau \eta \tau \varepsilon \varsigma ~$


 $\pi \rho о ́ \sigma \theta \varepsilon \tau \eta ~ \varepsilon \pi \iota \beta \alpha ́ \rho v \nu \sigma \eta ~ \pi о v ~ \pi \rho \varepsilon ́ \pi \varepsilon \imath ~ v \alpha ~ \varepsilon \xi \varepsilon \tau \alpha \sigma \tau \varepsilon i ́ ~ \sigma о \beta \alpha \rho \alpha ́ ~ \sigma \chi \varepsilon \tau ı \alpha \alpha ́ ~ \mu \varepsilon ~ \tau \alpha ~ \mu ו \kappa \rho \alpha ́ ~ к \alpha ı ~$ $\mu \varepsilon \sigma \alpha i ́ \alpha ~ \sigma v \sigma \tau \eta ́ \mu \alpha \tau \alpha ~ \varepsilon \kappa \mu \varepsilon \tau \alpha ́ \lambda \lambda \varepsilon v \sigma \eta \varsigma ~ \sigma \tau \eta v ~ I v \delta i ́ \alpha . ~$


















## Kєфа́入入ıo $3^{\circ}$－MعӨoסo入opía tns غ́peuvas



## Eрєvvŋтıкós $\sigma \kappa о \pi о ́ \varsigma-\varepsilon \rho \omega \tau \eta ́ \mu \alpha \tau \alpha$








 $\pi \rho \alpha \kappa \tau \iota \kappa \varepsilon ́ \varsigma ~ v i o \theta \varepsilon \tau \tau о ์ v ~ \omega \varsigma ~ \pi \rho о \varsigma ~ \tau \eta v ~ \varepsilon \varphi \alpha \rho \mu о \gamma ŋ ́ ~ \tau о и \varsigma ; ~ ;$
 $\gamma ı \alpha \tau \eta \chi \rho \eta ́ \sigma \eta \tau \omega \nu$ фvточарна́кюv；

## $\Sigma \chi \varepsilon \delta \iota \alpha \sigma \mu o ́ s ~ £ ́ \rho \varepsilon v v a s$


 Likert каı к $\lambda \varepsilon \iota \sigma \tau о v ́ ~ \tau и ́ \pi о v ~ \varepsilon \pi i \lambda \varepsilon \gamma \mu \varepsilon ́ v \omega v ~ \varepsilon \rho \omega \tau \eta ́ \sigma \varepsilon \omega v, ~ \beta \alpha \sigma \iota \sigma \mu \varepsilon ́ v o ~ \sigma \tau о ~ \pi \rho o ́ \tau v \pi о ~$


 $\gamma 1 \alpha$ тоvs $\alpha \sigma \varphi \alpha \lambda \varepsilon i ́ s ~ \tau \rho o ́ \pi о v s ~ \varepsilon \varphi \alpha \rho \mu о \gamma \eta ́ s ~ к \alpha ı ~ \delta ı \alpha \tau \eta ́ \rho \eta \sigma \eta s ~ \tau о v \varsigma ~ \varepsilon i ́ v \alpha ı ~ \mu \varepsilon \tau \rho \eta ́ \sigma \mu \varepsilon \varsigma . ~$


 $\varepsilon \rho \dot{\tau} \tau \mu \alpha$ ．

 $\alpha \pi \alpha \rho \alpha i ́ \tau \eta \tau о ~ \sigma ט ́ \mu \varphi \omega v \alpha \mu \varepsilon$ то $2^{\circ} \varepsilon \rho \varepsilon v \nu \eta \tau \iota \kappa o ́ ~ \varepsilon \rho ต ́ \tau \eta \mu \alpha . ~ H ~ \delta є \varepsilon \rho \varepsilon v ́ v \eta \sigma \eta ~ \tau \omega v ~ \sigma v \sigma \chi \varepsilon \tau i ́ \sigma \varepsilon \omega v$




 (Фарцо́кпя, 2017).

## $\Pi \lambda \eta \theta v \sigma \mu o ́ s-\Delta \varepsilon \dot{́} \gamma \mu \alpha$









## Ep $\gamma \alpha \lambda \varepsilon_{i ́ o}$












## 

 $\mu \varepsilon \pi \alpha \rho \alpha ́ \lambda \lambda \eta \lambda \eta \quad \chi \rho \eta ́ \sigma \eta$ тov Microsoft Office Excel $2016 \gamma 1 \alpha$ $\sigma \chi \varepsilon \delta ı \alpha \sigma \mu o ́ ~ \tau \omega \nu$ $\gamma \rho \alpha \varphi \eta \mu \alpha ́ \tau \omega v$.












 غ́ $\lambda \varepsilon \gamma \chi \circ \varsigma$ Kruskal Wallis (Pov́ббoৎ \& Tб $\alpha \circ v ́ \sigma \eta \varsigma, 2011$ ).

## HӨıка́ Zqтŋ́ $\mu \alpha \tau \alpha$



 оı $\pi \alpha \rho \alpha \kappa \alpha ́ \tau \omega ~ к \alpha v o ́ v є \varsigma: ~$

 кошо́тทта.




- $\Delta ⿺ \alpha \sigma \alpha \varphi \eta v i ́ \sigma \tau \eta \kappa \varepsilon$ ó ó oı $\sigma \nu \mu \mu \varepsilon \tau \varepsilon ́ \chi о v \tau \varepsilon \varsigma ~ \mu \pi о \rho о v ́ v ~ v \alpha ~ \alpha \pi о \chi \omega \rho \eta ́ \sigma o v v ~ \alpha \pi o ́ ~ \tau \eta \nu ~ \varepsilon ́ \rho \varepsilon v v \alpha ~$
 $\sigma \cup \mu \pi \lambda \eta \dot{\rho} \omega \sigma \eta \tau \omega v \delta \varepsilon \delta \circ \mu \varepsilon ́ v \omega v$.





## 

Н $\alpha \xi \xi ı \pi ı \sigma \tau i ́ \alpha ~ \tau \omega v ~ \delta \varepsilon \delta о \mu \varepsilon ́ v \omega v ~ \varepsilon \lambda \varepsilon ́ \gamma \chi \theta \eta \kappa \alpha \nu \gamma 1 \alpha \kappa \alpha ́ \theta \varepsilon ~ \pi \alpha \rho \alpha ́ \gamma o v \tau \alpha ~ \tau \eta \varsigma ~ \varepsilon ́ \rho \varepsilon v v \alpha \varsigma ~ \mu \varepsilon ~ \chi \rho \eta ́ \sigma \eta$










## А $\pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha$

## $\Delta \eta \mu о \gamma \rho \alpha \varphi \iota \kappa \alpha ́ \chi \alpha \rho \alpha к \tau \eta \rho ı \sigma \tau \iota \kappa \alpha ́$




















[^1]

Гра́чпиа 2: Морчштıко́ єпілєвбо




Гра́чๆ $\mu \alpha$ 4: 'E $\delta \rho \alpha$ к $\alpha \lambda \lambda \iota \varepsilon ́ \rho \gamma \varepsilon ı \alpha \varsigma ~$




Гра́чпна 6: Катд́ $ө \iota \sigma \eta ~ ү \iota \alpha ~ ү \varepsilon \omega \rho ү เ к \alpha ́ ~ \varphi \alpha ́ \rho \mu \alpha к \alpha ~$



## 



 оvо $\mu \alpha \sigma \tau к \varepsilon ́ \varsigma ~ \mu \varepsilon \tau \alpha \beta \lambda \eta \tau \varepsilon ́ \varsigma$.

Проки́лтєı ótı то 59,0\% ( $\mathrm{N}=89$ ) $\alpha \pi \alpha v \tau \alpha ́ ~ \sigma \omega \sigma \tau \alpha ́ ~ \pi \omega \varsigma ~ \lambda \alpha \mu \beta \alpha ́ v \varepsilon ı ~ \tau \eta v ~ \alpha \pi o ́ \varphi \alpha \sigma \eta ~ v \alpha ~$
 кат $\alpha \sigma \tau \eta ́ \mu \alpha \tau о \varsigma ~ \varepsilon \mu \pi о р і ́ \alpha s ~ \gamma \varepsilon \omega \rho \gamma ı к ө ́ v ~ \varphi \alpha \rho \mu \alpha ́ к \omega v », ~ \tau о ~ 25 \% ~(~ N=37) ~ « \mu \varepsilon ~ \tau \eta ~ \beta о \eta ́ \theta \varepsilon ı \alpha ~$

 $\gamma \vee ต ́ \mu \eta ~ \tau \omega v \alpha \dot{\alpha} \lambda \lambda \omega v » . \Sigma \tau \eta \sigma v v \varepsilon ́ \chi \varepsilon \iota \alpha$, то $61 \% ~(N=92) \alpha v \varepsilon ́ \varphi \varepsilon \rho \varepsilon ~ \pi \omega \varsigma ~ \eta ~ \varepsilon \tau \iota к \varepsilon ́ \tau \alpha ~ \tau о v ~$






 غ́ $\chi \varepsilon ı ~ \delta о к \mu \alpha \sigma \tau \varepsilon i ́ ~(\eta ́ ~ \varepsilon ́ \chi о v v ~ \gamma i ́ v \varepsilon ı ~ \pi \varepsilon ı \rho \alpha ́ \mu \alpha \tau \alpha) » . ~ \Sigma \chi \varepsilon \tau \iota \kappa \alpha ́ ~ \mu \varepsilon ~ \tau \alpha ~ \gamma \varepsilon \omega р \gamma ı к \alpha ́ ~ \varphi \alpha ́ \rho \mu \alpha к \alpha, ~ \tau о ~$



 фо́ $\rho \mu \alpha \kappa \alpha$ ».








 $\varepsilon \pi ı \tau \cup \chi i ́ \alpha ~ \alpha v \tau ı \mu \varepsilon \tau \omega \pi i ́ \sigma \varepsilon \imath ~ \tau о ~ \varepsilon ́ v \tau о \mu о ~ \alpha v \tau o ́ » . ~$



 то $13 \%(\mathrm{~N}=20)$ ótı «Eívaı $\pi \rho о \tau \alpha ́ \sigma \varepsilon ı \varsigma ~ \tau \eta \varsigma ~ \varepsilon \tau \alpha ı \rho \varepsilon i ́ \alpha \varsigma ~ \pi о v ~ \tau о ~ \delta ı \alpha к ı v \varepsilon i ́ ~ \gamma ı \alpha ~ v \alpha ~ \mu \eta \nu ~ \varepsilon ́ \chi \varepsilon ı ~$



 аүора́», то 49\% ( $\mathrm{N}=73$ ) $\alpha \pi \alpha ́ v \tau \eta \sigma \varepsilon ~ \sigma \omega \sigma \tau \alpha ́ ~ o ́ \tau \imath ~ « \pi о \tau \varepsilon ์ », ~ \tau о ~ 27 \% ~(N=40) ~ o ́ \tau \imath ~ « M o ́ v o ~ \alpha v ~$ $\mu \circ v \pi \varepsilon \imath$ о $\gamma \varepsilon \omega \pi$ óvos ótı عíval $\alpha \pi о \tau \varepsilon \lambda \varepsilon \sigma \mu \alpha \tau \iota \kappa o ́ », ~ \tau о ~ 13 \% ~(~ N=19) ~ « M o ́ v o ~ \varepsilon \alpha ́ v ~$

 $\kappa \alpha \lambda \lambda 1 \varepsilon ́ \rho \gamma \varepsilon 1 \alpha »$.


 ŋ́ $\tau \rho \iota \pi \lambda \alpha ́ \sigma ı \alpha ~ \delta o ́ \sigma \eta ~ \varepsilon v o ́ s ~ \gamma v \omega \sigma \tau о v ́ ~ \gamma \varepsilon \omega \rho \gamma ı к о v ́ ~ \varphi \alpha \rho \mu \alpha ́ к о v », ~ \tau о ~ 9 \% ~(N=14) ~ o ́ \tau ı ~ « А v \alpha \zeta ̆ \eta \tau \omega ́ ~$

 $\alpha v \alpha \gamma \rho \alpha ́ \varphi \varepsilon ı \eta$ $\ell \tau \iota \kappa \varepsilon ́ \tau \alpha » . ~$

 ¢ச́คvєı $\sigma \tau \eta ~ \chi ஸ ́ \rho \alpha ~ \mu \alpha \varsigma, ~ \tau о ~ 54 \% ~(~ N=81) ~ \alpha \pi \alpha ́ v \tau \eta \sigma \varepsilon ~ \sigma \omega \sigma \tau \alpha ́ ~ o ́ \tau ı ~ « T o ~ \pi \rho o і ̈ o ́ v ~ \varepsilon i ́ v \alpha ı ~$




 $\delta \varepsilon v \tau \not \mu \omega \rho \varepsilon i ́ \tau \alpha \downarrow$ ало́ $\tau 0 \vee$ vó $\mu 0 »$.
 $43 \% ~(\mathrm{~N}=64)$ «Eíval $\sigma \varepsilon$ к人́ $\theta \varepsilon \pi \varepsilon \rho i ́ \pi \tau \omega \sigma \eta ~ \pi \alpha \rho \alpha ́ v о \mu о », ~ \sigma \varepsilon ~ \pi о \sigma о \sigma \tau o ́ ~ 27 \% ~(~ N=40) ~ o ́ \tau ı ~$



 $\gamma \varepsilon \omega \pi$ о́vo».



 ( $\mathrm{N}=39$ ) ó $\tau ı$ عívaı ó $\lambda \varepsilon \varsigma$ oı $\pi \rho о \alpha v \alpha \varphi \varepsilon \rho о ́ \mu \varepsilon v \varepsilon \varsigma ~ \varepsilon \pi ı \lambda о \gamma \varepsilon ́ \varsigma . ~$








| ミтor¢Eío | Kатпү\%орía | N | f\% |
| :---: | :---: | :---: | :---: |
|  |  | 16 | 11,0 |
| Пós $\lambda \alpha \mu \beta \alpha ́ v \varepsilon \tau \varepsilon \tau \eta \nu$ $\alpha \pi o ́ \varphi \alpha \sigma \eta ~ \gamma 1 \alpha v \alpha$ |  <br>  | 89 | 59,0 |
| $\chi \rho \eta \sigma \mu$ точ́ббєєє $\gamma \varepsilon \omega \rho \gamma$ ¢о́ |  | 37 | 25,0 |
| фа́риако; |  | 7 | 5,0 |
|  | Акоv́ $\omega \tau \eta \gamma \nu \dot{\mu} \mu \eta \tau \omega \nu \alpha \dot{\alpha} \lambda \lambda \omega \nu$ | 1 | 1,0 |
|  |  |  |  |
| чарио́кои, то олоі́о $\varepsilon \pi \iota \tau \rho \varepsilon ́ \pi \varepsilon \tau \alpha \iota v \alpha$ |  $\pi \alpha \rho \alpha \delta \varepsilon ́ \gamma \not \mu \alpha \tau \alpha, \mu \varepsilon \rho \iota \kappa \varepsilon ́ \varsigma \alpha \pi o ́ \tau \iota \varsigma$ | 52 | 35,0 |


| $\chi \rho \eta \sigma \mu$ олоп́ $\sigma \omega \sigma \tau \eta \nu$ |  |  |  |
| :---: | :---: | :---: | :---: |
|  | tov |  |  |
|  |  |  |  |
|  |  | 92 | 61,0 |
|  | Троч́́ $\omega \omega v$ к $\alpha ı ~ \tau \eta \nu ~ к \alpha \lambda \lambda \lambda \varepsilon ́ \rho \gamma \varepsilon ı \alpha ́ ~ \mu о v ~$ |  |  |
|  |  |  |  |
|  |  | 5 | 3,0 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  | 1 | 1,0 |
|  | $\pi \varepsilon \rho \stackrel{\chi}{ }$ ¢́ $\mu$ оv |  |  |




|  | 22 |
| :---: | :---: |
| $\gamma \varepsilon \omega \rho \gamma$ ¢к $¢ \alpha \rho \mu \alpha к \alpha$ |  |

 фарно́коv в $\lambda \alpha \chi ı \tau \tau о \pi о เ \varepsilon i ́ ~ \tau ı \varsigma ~ \delta v \sigma \mu \varepsilon v \varepsilon i ́ \varsigma ~$ $\varepsilon \pi \imath \delta \rho \alpha ́ \sigma \varepsilon ı \varsigma ~ \tau \eta \nu$ vүદía 兀оv $\chi \rho \eta ́ \sigma \tau \eta$, $\kappa \alpha \tau \alpha v \alpha \lambda \omega \tau \eta ์ \kappa \alpha ı$ то $\pi \varepsilon \rho \imath \beta \dot{\alpha} \lambda \lambda$ оv

$\Gamma i \alpha v \alpha \alpha \nu \tau \downarrow \mu \varepsilon \tau \omega \pi i ́ \sigma \omega$ ह́v $\alpha$ غ́vтоцо


$\alpha v \chi \rho \varepsilon i \alpha \sigma \tau \varepsilon i ́ \mu \pi о \rho \varepsilon i ́ v \alpha \varepsilon \pi \lambda \lambda \varepsilon ́ \xi \omega \omega \dot{\alpha} \lambda \lambda 0$
Акодоvөஸ́ то $\pi \rho о ́ \gamma \rho \alpha \mu \mu \alpha \psi \varepsilon \kappa \alpha \sigma \mu \omega ́ v$
$\alpha \dot{\alpha} \lambda \lambda \omega v \pi \alpha \rho \alpha \gamma \omega \gamma \omega ́ v \pi \circ v$ ह́ $\chi \circ \cup v \mu \varepsilon \varepsilon \pi \imath \tau \cup \chi i ́ \alpha ~ 20 \quad 13,0$ $\alpha \nu \tau \mu \varepsilon \tau \omega \pi$ íбєı то $\varepsilon$ ह́vто $о$ о $\alpha \tau$ о́

\begin{tabular}{|c|c|c|c|}
\hline \& \begin{tabular}{l}
 \\
 \\
 олоі́o бтŋv \(\varepsilon \tau \iota \kappa \varepsilon ́ \tau \alpha ~ \tau о v ~ \alpha v \alpha \gamma \rho \alpha ́ \varphi \varepsilon ı ~ к \alpha ı ~ \tau о ~\) \\
 Өغ́д \(\omega\) va 兀о \(\chi \rho \eta \sigma \mu о \pi о э ŋ ́ \sigma \omega ~ к \alpha ı ~ \alpha к о \lambda о v \theta \omega ́ ~\) \(\tau \iota \varsigma ~ o \delta \eta \gamma i \varepsilon \varsigma ~ \chi \rho \eta ́ \sigma \varepsilon \omega \varsigma\)
\end{tabular} \& 84 \& 56，0 \\
\hline \multirow{3}{*}{ \(\alpha v \alpha \gamma \rho \alpha ́ \varphi o v \tau \alpha \iota ~ \sigma \tau \eta v \varepsilon \tau \iota \kappa \varepsilon ́ \tau \alpha\) عvós \(\gamma \varepsilon \omega \rho \gamma\) ккои́ чарио́коv} \& Eívaı \(\pi \rho о \tau \alpha ́ \sigma \varepsilon ı \varsigma ~ \tau \eta \varsigma ~ \varepsilon \tau \alpha ı \rho \varepsilon i ́ \alpha \varsigma ~ \pi о v ~ \tau о ~\) סıんкıvદí \(\gamma 1 \alpha\) v \(\alpha \mu \eta \nu\) ह́ \(\chi \varepsilon ı ~ \varepsilon v \theta o ́ v \varepsilon \varsigma ~\) \& 20 \& 13，0 \\
\hline \& \begin{tabular}{l}
 \\
 об \(\boldsymbol{\gamma} \boldsymbol{\imath} \varepsilon \varsigma\) \\
Eívaı єvסєıктıкє́s каı а．ророи́v \(\mu \varepsilon \rho \iota \kappa \varepsilon ́ s\), \\
 \(\alpha \pi о \tau \varepsilon ́ \lambda \varepsilon \sigma \mu \alpha\)
\end{tabular} \& 88

23 \& 59,0

15,0 <br>
\hline \&  $\pi \rho о$ öv $\tau \alpha \pi \rho о o \rho i \zeta о \nu \tau \alpha ı ~ \gamma ı \alpha \varepsilon \xi \alpha \gamma \omega \gamma \eta ́$ \& 19 \& 13，0 <br>

\hline \multirow{4}{*}{| Прıv аүора́бю ह́vа $\gamma \varepsilon \omega \rho \gamma ı к о ́$ фо́риако，$\gamma \iota \alpha$ v $\alpha \beta \varepsilon \beta \alpha \iota \omega \theta$ о́ о́тı |
| :--- |
|  غт兀кと́t $\alpha$ ： |} \&  \& 35 \& 24，0 <br>

\hline \&  tov ovoía \& 39 \& 18，0 <br>
\hline \& Tov $\alpha \rho ı \theta \mu o ́ ~ \varepsilon ́ \gamma к \rho ı \sigma \eta \varsigma ~ \alpha \pi o ́ ~ \chi \omega ́ \rho \alpha ~ \tau \eta \varsigma ~$ Еирютаїки́я＇Еvตбףs \& 18 \& 12，0 <br>

\hline \& |  |
| :--- |
|  | \& 58 \& 46，0 <br>

\hline $\Sigma \varepsilon \pi 0 \imath \varepsilon \varsigma \pi \varepsilon \rho \iota \pi \tau \dot{\sigma} \sigma \varepsilon 1 \varsigma$ $\chi \rho \eta \sigma \mu о \pi о \iota o v ́ \mu \varepsilon$ غ́va $\gamma \varepsilon \omega \rho \gamma เ \kappa o ́$ \& Móvo $\alpha v \mu \circ v \pi \varepsilon ı$ o $\gamma \varepsilon \omega \pi$ óvo̧ ó óı عívaı $\alpha \pi о \tau \varepsilon \lambda \varepsilon \sigma \mu \alpha \tau \iota к о ́$ \& 40 \& 27，0 <br>
\hline  $\sigma \tau \eta \nu \kappa \alpha \lambda \lambda 1 \varepsilon ́ \rho \gamma \varepsilon \iota \alpha \mu \alpha \varsigma \alpha \lambda \lambda \alpha \dot{\alpha}$ \& Móvo $\alpha v$ ह́ $\chi \varepsilon 1$ ह́ $\gamma \kappa \rho \iota \sigma \eta ~ \gamma 1 \alpha \pi \alpha \rho o ́ \mu о 1 \alpha$ $\kappa \alpha \lambda \lambda 1 \varepsilon ́ \rho \gamma \varepsilon \iota \alpha$ \& 18 \& 12，0 <br>
\hline коклорорві́ vó $\mu \boldsymbol{\mu} \boldsymbol{\sigma}$ отף \&  \& \& <br>
\hline Е入入ŋๆıкй аүора́； \&  к $\alpha \iota$ غ́ $\chi \varepsilon 1$ ह́ $\gamma \kappa \rho ı \sigma \eta ~ \gamma ı \alpha \alpha v \tau o ́$ \& 19 \& 13 <br>
\hline
\end{tabular}

Потє́





86 57,0
 $\pi \varepsilon \iota \rho \alpha \mu \tau і$ íouаı $\pi о v$ кик $\lambda о \varphi о р о и ́ v ~ \sigma \varepsilon$ $\alpha \dot{\alpha} \lambda \lambda \varepsilon \varsigma \chi \omega ́ \rho \varepsilon \varsigma$
 $\delta \iota \alpha ́ \sigma \tau \eta \mu \alpha \pi \sigma v \alpha v \alpha \gamma \rho \alpha ́ \varphi \varepsilon ı \eta$ $\varepsilon \tau \iota \kappa \varepsilon ́ \tau \alpha$

K $\alpha v \varepsilon ́ v \alpha \alpha \rho o ́ \beta \lambda \eta \mu \alpha$. Eívaı $\varepsilon \lambda \varepsilon v ́ \theta \varepsilon \rho o ~ \tau о$


$\varepsilon \gamma к \varepsilon к \rho \mu \mu \varepsilon ́ v o ~ \sigma \tau \eta \nu$ E $\lambda \lambda \alpha \dot{\alpha} \delta \alpha$ عíval vó $\mu \mu$ о

 $\alpha \pi \omega ́ \lambda \varepsilon 1 \alpha \tau \mu \omega \rho \varepsilon і ́ \tau \alpha 1 \mu \varepsilon \pi \rho о ́ \sigma \tau \iota \mu$ о, $\varphi \cup \lambda \alpha ́ \kappa ı \sigma \eta ~ \kappa \alpha ı ~ \alpha \pi \omega ́ \lambda \varepsilon ı \alpha ~ \varepsilon \pi ı \delta о \tau \eta ́ \sigma \varepsilon \omega v . ~$ $\Delta \varepsilon v$ cíval vó $\mu \not \mu$ o $\alpha \lambda \lambda \alpha$ ó $\alpha \varphi$ ov́ $\varepsilon i ́ v \alpha l ~ \gamma l \alpha ~ \delta ı к \eta ́ ~$
 $\alpha \pi$ ó $\tau 0 v$ vó $\mu$ о

 Еえ入ๆขıќ.

Eívaı $\pi \alpha \rho \alpha ́ v o \mu o ~ \varepsilon \varphi o ́ \sigma o v ~ \delta \varepsilon v ~ v \pi \alpha ́ \rho \chi \varepsilon ı ~$
 $\xi \varepsilon v o ́ \gamma \lambda \omega \sigma \sigma \eta$ हтıкธ́ $\tau \alpha$ :

Пoıos $\varepsilon$ ह́ $\chi$ єı $\tau \eta v$ عvӨúvך $\alpha v$
 оvo $\mu \alpha \sigma$ í $\alpha$

Eívaı $\sigma \varepsilon \kappa \alpha ́ \theta \varepsilon \pi \varepsilon \rho i ́ \pi \tau \omega \sigma \eta \pi \alpha \rho \alpha ́ v o \mu o$
64 43,0
 $\gamma \varepsilon \omega \pi$ óvo

$\qquad$
$\varepsilon \nu \tau о \pi \iota \sigma \theta \varepsilon i ́ \eta ~ \chi \rho \eta ́ \sigma \eta$
$\pi \alpha \rho \alpha ́ v o \mu о v ~ \gamma \varepsilon \omega \rho \gamma ı к о и ́ ~$ чарио́коv；
$\sigma \tau о \kappa \alpha \tau \alpha ́ \sigma \tau \eta \mu \alpha$


O $\pi \alpha \rho \alpha \gamma \omega \gamma о ́ \varsigma$
5537,0
＇O $\lambda$ oı oı $\alpha v \alpha \varphi \varepsilon \rho o ́ \mu \varepsilon v o ı ~ \sigma \tau \iota \varsigma ~ \alpha ́ \lambda \lambda \varepsilon \varsigma ~ \varepsilon \pi i \lambda о \gamma \varepsilon ́ \varsigma ~$


$\tau \omega v$ 甲vтஸ́v» Kaı $\alpha v \alpha \varphi \varepsilon ́ \rho o u v$
$\varepsilon v \delta \varepsilon i ́ \xi \varepsilon \iota \varsigma ~ к \alpha \tau \alpha \pi о \lambda \varepsilon ́ \mu \eta \sigma \eta \varsigma$
$\varepsilon \nu \tau o ́ \mu \omega v \kappa \alpha \iota \alpha \sigma \theta \varepsilon v \varepsilon \iota \omega ́ v \tau \omega \nu$
甲ขтóv；

＇Exovv $\alpha \pi о \tau \varepsilon \lambda \varepsilon \sigma \mu \alpha \tau \iota к о ́ \tau \eta \tau \alpha ~ \sigma \tau \eta \nu$
 $\tau \omega v$ 甲 $\tau \tau \dot{\sigma}$

Eívaı $\pi \alpha \rho \alpha ́ v о \mu \alpha ~ \gamma \varepsilon \omega \rho \gamma ı к \alpha ́ ~ \varphi \alpha ́ \rho \mu \alpha к \alpha ~$
27 18，0
$\mathrm{N}: \Sigma \nu \chi \vee o ́ \tau \eta \tau \alpha$


























## 

 $\varepsilon \varphi \alpha \rho \mu о \gamma \eta ́ ~ к \alpha \lambda \omega ́ v ~ \pi \rho \alpha \kappa \tau \iota \kappa \omega ́ v ~ к \alpha \tau \alpha ́ ~ \tau \eta ~ \chi \rho \eta ́ \sigma \eta ~ \varphi v \tau о \pi \rho о б \tau \alpha \tau \varepsilon v \tau \iota к ต ́ v ~ \pi \rho о і ̈ о ́ v \tau \omega v . ~$
 $\varepsilon \varphi \alpha \rho \mu о \gamma \eta ์ s ~ \tau о \cup \varsigma ~ \alpha \pi o ́ ~ \tau о v \varsigma ~ \alpha \gamma \rho о ́ \tau \varepsilon \varsigma, ~ \tau \eta \nu ~ \alpha \sigma \varphi \alpha \lambda \eta ́ ~ \chi \rho \eta ́ \sigma \eta ~ \tau \omega v ~ \gamma \varepsilon \omega \rho \gamma ו к ळ ́ v ~ \varphi \alpha \rho \mu \alpha ́ к \omega \nu$

 $\alpha \delta \iota \alpha \theta \varepsilon \sigma i ́ \alpha \varsigma ~ \kappa \alpha \tau \alpha ́ ~ \tau \eta ~ \chi \rho \eta ́ \sigma \eta ~ \gamma \varepsilon \omega \rho \gamma ı к о v ́ ~ \varphi \alpha \rho \mu \alpha ́ \kappa о v . ~ Т \alpha ~ \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \pi \alpha \rho о v \sigma ı \alpha ́ \zeta о v \tau \alpha ı ~$ $\pi \alpha \rho \alpha \kappa \alpha ́ \tau \omega ~ \sigma \tau \alpha ~ Г \rho \alpha \varphi ๆ ́ \mu \alpha \tau \alpha ~ 20-29 ~ к \alpha ı ~ \sigma \tau о \nu ~ П і ́ v \alpha к \alpha ~ 4 . ~$





 $\mu \circ v, ~ \psi \varepsilon \kappa \alpha ́ \zeta \omega ~ \kappa \alpha ı ~ \pi \lambda \varepsilon ́ v \omega ~ \pi о \lambda v ́ ~ к \alpha \lambda \alpha ́ ~ \tau о ~ \pi \rho o ́ \sigma \omega \pi о ~ к \alpha \iota ~ \tau \alpha ~ \chi \varepsilon ́ \rho เ \alpha ~ \mu о v » . ~$



 $4 \%(\mathrm{~N}=6)$ «о七 $\mu \pi$ о́тєऽ».


 «入íүо» каı то $6 \%(\mathrm{~N}=9)$ «каӨó ${ }^{2}$ оv».

 $\mu \varepsilon \tau \alpha ́ ~ \tau о v ~ \psi \varepsilon к \alpha \sigma \mu o ́ », ~ \tau о ~ 31 \% ~(N=46) ~ « \Pi \rho ı v ~ \pi \varepsilon \rho \alpha ́ \sigma \varepsilon ı ~ \chi \rho o ́ v o s ~ i ́ \sigma o s ~ \mu \varepsilon ~ \tau о ~ \delta ı \alpha ́ \sigma \tau \eta \mu \alpha ~$

 чєкабтıкó vүро́».
$\Sigma \tau \eta ~ \sigma ט v \varepsilon ́ \chi \varepsilon 1 \alpha, ~ \sigma \varepsilon ~ \pi \varepsilon \rho i ́ \pi \tau \omega \sigma \eta ~ \pi о ৩ ~ \chi \cup \theta \varepsilon i ́ ~ \sigma \tau о ~ \delta \varepsilon ́ \rho \mu \alpha ~ \gamma \varepsilon \omega \rho \gamma \iota \kappa o ́ ~ \varphi \alpha ́ \rho \mu \alpha \kappa о, ~ \alpha \pi \alpha ́ \nu \tau \eta \sigma \alpha \nu ~ \tau о ~$




 $\tau \eta \vee \varepsilon \pi \imath \kappa \imath v \delta v \vee o ́ \tau \eta \tau \alpha ́ ~ \tau \circ \cup »$.


 （ $\mathrm{N}=8$ ）« $\mathrm{N} \alpha \alpha \pi о \varphi \rho \alpha ́ \zeta о v \mu \varepsilon ~ \tau \alpha ~ \mu \pi \varepsilon \kappa ~ \varphi ט \sigma ळ ́ v \tau \alpha \varsigma ~ \mu \varepsilon ~ \tau о ~ \sigma \tau о ́ \mu \alpha » ~ к \alpha ı ~ \tau о ~ 49 \% ~(~ N=74) ~$ $\alpha \pi \alpha ́ v \tau \eta \sigma \varepsilon \sigma \omega \sigma \tau \alpha ́ «<́ \lambda \alpha \tau \alpha \pi \alpha \rho \alpha \pi \alpha ́ v \omega »$.

Ако́ $\mu \alpha$ ，та $\gamma \varepsilon \omega \rho \gamma \iota к \alpha ́ ~ \varphi \alpha ́ \rho \mu \alpha к \alpha ~ \alpha \pi о Ө \eta к \varepsilon v ́ o v \tau \alpha ı ~ к \alpha \tau \alpha ́ ~ \tau о ~ 62 \% ~(N=93) ~ « П \alpha ́ v \tau \alpha ~$





 $\varepsilon \mu \varepsilon \tau о ́, ~ \tau \rho \varepsilon ́ \mu о \cup \lambda о, ~ \delta v ́ \sigma \pi v o ı \alpha) ~ к \alpha \tau \alpha ́ ~ \tau \eta ~ \chi \rho \eta ́ \sigma \eta ~ \gamma \varepsilon \omega \rho \gamma ı к о и ́ ~ \varphi \alpha \rho \mu \alpha ́ к о v », ~ \alpha \pi \alpha ́ v \tau \eta \sigma \alpha \nu, ~ \tau о ~$





 そєкоирабтві́тє»．

 76，67\％（N＝115）ó $\chi$ ．


| ¿тоıхвio | Katnүopia | $N$ | f\％ |
| :---: | :---: | :---: | :---: |
| К $\alpha \tau \alpha ́ \tau \eta \chi \rho \eta ́ \sigma \eta \gamma \varepsilon \omega \rho \gamma \iota \kappa \omega ́ v$ $\varphi \propto \rho \mu \alpha ́ \kappa \omega \nu \pi$ оı $\alpha$ عívaı $\eta$ $\sigma \omega \sigma \tau \eta$ $\pi \rho \alpha к \tau \iota к$ ； | Пג＇́vต $\tau \alpha \chi \varepsilon ́ \rho ı \alpha \mu \circ v, \varepsilon \tau о \not \mu \alpha ́ \zeta \omega$ то $\psi \varepsilon \kappa \alpha \sigma \tau \iota \kappa o ́ ~ v \gamma \rho o ́, ~ \varphi о \rho \alpha ́ \omega ~ \mu \varepsilon ́ \sigma \alpha ~$ $\pi \rho о \sigma \tau \alpha \sigma i ́ \alpha \varsigma ~ \kappa \alpha \imath ~ \psi \varepsilon \kappa \alpha ́ \zeta \omega$ | 46 | 31，0 |
|  | Етоща́らの то чєкабтıкó vүро́，甲оро́ $\omega \mu \varepsilon ́ \sigma \alpha \pi \rho о \sigma \tau \alpha \sigma i ́ \alpha,$, | 38 | 26，0 |

$\psi \varepsilon \kappa \alpha ́ \zeta \omega ~ \kappa \alpha ı ~ \pi \lambda \varepsilon ́ v \omega ~ \tau \alpha ~ \chi \varepsilon ́ p ı \alpha ~ \mu о v ~$
 чарна́кои каı афои́

48
32，0
$\alpha к о \lambda$ оиөŋ́бш $\tau \iota \varsigma ~ о \delta \eta \gamma і ́ \varepsilon \varsigma \tau \eta \varsigma$,廿عка̧́ю

Пробє́ $\chi \omega$ ต́бтє v $\alpha \mu \eta \nu \chi \cup \theta \varepsilon$ í то ча́рнако то́vต $\mu \circ v, \psi \varepsilon \kappa \alpha ́ \zeta \omega ~ к \alpha \imath ~$ $\pi \lambda \varepsilon ́ v \omega \pi \mathrm{o} \lambda \frac{́}{\kappa} \kappa \lambda \alpha \dot{\alpha}$ то $\pi \rho o ́ \sigma \omega \pi о$ ${ }_{\kappa} \alpha ı \tau \alpha \chi \varepsilon ́ \rho 1 \alpha \mu \circ v$

|  |  | 15 | 10，0 |
| :---: | :---: | :---: | :---: |
|  | H $\mu$ д́бк $\alpha$ | 68 | 45，0 |
|  | H ¢óp $\alpha^{\prime}$ | 12 | 8，0 |
| $\kappa \alpha \tau \alpha ́ \tau \eta \chi \rho \eta ́ \sigma \eta ~ \gamma \varepsilon \omega \rho \gamma ı \kappa ¢ ́ \nu$ | Oı $\mu \pi$ о́т $¢ \varsigma$ | 6 | 4，0 |
| ¢орио́кळข |  |  |  |
|  | ＇O $\tau \iota ~ \sigma \nu \sigma \tau \eta ́ v \varepsilon \tau \alpha \iota ~ \sigma \tau \eta \nu$ бибквvaбía тоv 甲ар $\mu$ ќкоv | 39 | 26，0 |
|  | O $\mathrm{\sigma} \imath \mu \alpha \varsigma \pi \varepsilon \imath$ о $\varepsilon \pi \iota \sigma \tau \eta ́ \mu \circ v \alpha \varsigma-$ $\gamma \varepsilon \omega \pi$ о́vos $\pi$ оv $\sigma v v \varepsilon \rho \gamma \alpha \zeta$ ¢́ $\mu \alpha \sigma \tau \varepsilon$ | 10 | 7，0 |


| Käólov |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  | 9 | 6，0 |
| Н $\chi \rho \eta \dot{\sigma} \eta \tau \omega \nu \mu \varepsilon ́ \tau \rho \omega \nu \pi \rho о \sigma \tau \alpha \sigma i ́ \alpha \varsigma$ | ＾íqo | 15 | 10，0 |
| $\kappa \alpha \tau \alpha \tau \eta \chi \rho \eta \sigma \eta \gamma \varepsilon \omega \rho \gamma ⿺ \kappa \omega \nu$ <br>  | Mét $¢ 1 \alpha$ | 37 | 25，0 |
| $\gamma v \omega \prime \mu \eta$ ба¢ | Поди́ | 24 | 16，0 |
|  | Пápo $\pi$ о $\lambda$ ט́ | 65 | 43，0 |

$\Delta \varepsilon v \varepsilon \pi ı \tau \rho \varepsilon ́ \pi \varepsilon \tau \alpha ı \eta \pi \rho o ́ \sigma \beta \alpha \sigma \eta ~ \sigma \tau \eta \nu$
 үєюрүікои́ чарио́кот：
$\Gamma 1 \alpha 24$ ต́ $\rho \varepsilon \varsigma \mu \varepsilon \tau \alpha ́ \operatorname{\tau ov} \psi \varepsilon \kappa \alpha \sigma \mu o ́$

6543,0
 $\delta ı \alpha ́ \sigma \tau \eta \mu \alpha \alpha v \alpha \mu о \vee \eta ́ s ~ \pi \rho o ~ \tau \eta \varsigma$

боүкоцıбَ́ऽ $\pi о v ~ \alpha v \alpha \gamma \rho \alpha ́ \varphi \varepsilon \tau \alpha ı$
$\sigma \tau \eta \vee \varepsilon \tau ル \kappa \varepsilon ́ \tau \alpha$
Мદ́ $\chi \rho ı ~ v \alpha$ о $\lambda о \kappa \lambda \eta \rho \omega \theta \varepsilon i ́ ~ о ~$ $\psi \varepsilon \kappa \alpha \sigma \mu$ о́s

|  |  |  |
| :---: | :---: | :---: |
| vүoó | 15 | 0，0 |

П入દ́vov $\mu \varepsilon \mu \varepsilon$ д́ $\varphi \theta$ ovo vєคó то
ठє́риа каı акодоиӨои́цє 兀ıऽ $96 \quad 64,0$

$\gamma \varepsilon \omega \rho \gamma$ кои́ рарио́кот
Еа́v то 甲а́р $\mu \alpha к о ~ \delta \varepsilon v ~ \varepsilon i ́ v \alpha ı ~$

 үєшрүкко́ фо́риако：

$\begin{array}{lll}\sigma \alpha \pi \text { ои́vı } \kappa \alpha ı \lambda \alpha \mu \beta \alpha ́ v о ч \mu \varepsilon & 20 & 13,0\end{array}$
$\pi \rho о \lambda \eta \pi \tau \tau \kappa \alpha ́ \alpha \nu \tau i ́ \delta o \tau о$
Елıкоเvตvov́ $\mu \varepsilon \mu \varepsilon \tau \eta \nu \varepsilon \tau \alpha \iota \rho i ́ \alpha$
тоv $\gamma \varepsilon \omega \rho \gamma \not \kappa о$ и́ $\varphi \alpha \rho \mu \alpha ́ \kappa о v ~ \gamma ı \alpha$ v $\alpha \quad 9$ 6，0
$\varepsilon \nu \eta \mu \varepsilon \rho \omega \theta$ ои́ $\mu \varepsilon \gamma 1 \alpha \tau \eta \nu$
$\varepsilon \pi \imath \kappa ı v \delta v v o ́ \tau \eta \tau \alpha ́ ~ \tau o v$

$\begin{array}{lll}\alpha ́ v \varepsilon \mu о & \mu \varepsilon \varepsilon \pi \iota \imath ต ́ t ı o v s ~ & 27 \\ 18,0\end{array}$
$\psi \varepsilon \kappa \alpha \sigma \tau \eta ์ \rho \varepsilon \varsigma$
Поı $\alpha \pi$ о́ $\tau \alpha \pi \alpha \rho \alpha \kappa \alpha ́ \tau \omega ~ \delta \varepsilon v$ عívaı $\quad \mathrm{N} \alpha$ калvíלov $\mu \varepsilon$ к $\alpha \tau \dot{\alpha} \tau \eta$ $\alpha \sigma \varphi \alpha \lambda \varepsilon i ́ \varsigma ~ \varepsilon \rho \gamma \alpha \sigma \iota \alpha \kappa \varepsilon ́ \varsigma ~ \pi \rho \alpha \kappa \tau \iota \kappa \varepsilon ́ \varsigma: ~ \delta \iota \alpha ́ \rho к \varepsilon ı \alpha ~ \tau о v ~ \psi \varepsilon к \alpha \sigma \mu о v ́ ~$
$\mathrm{N} \alpha \alpha \pi о \varphi \rho \alpha ́ \zeta о \nu \mu \varepsilon \tau \alpha \mu \pi \varepsilon \kappa \quad 8 \quad 5,0$
фибต́vтац $\mu \varepsilon$ то бто́ $\mu \alpha$
＇O $\lambda \varepsilon \varsigma$ ol $\alpha \lambda \lambda \varepsilon \varsigma \varsigma \alpha \pi \alpha \nu \tau \eta ́ \sigma \varepsilon 1 \varsigma ~ 74 ~ 49,0$

\begin{tabular}{|c|c|c|c|}
\hline \multirow{4}{*}{} \&  \& 93 \& 62，0 \\
\hline \& \begin{tabular}{l}
K \(\lambda \varepsilon \iota \delta \omega \mu\) ह́va \(\varepsilon \varphi\) ó \(\sigma o v\) عívaı \\

\end{tabular} \& 39 \& 26，0 \\
\hline \&  \& 12 \& 8，0 \\
\hline \&  \& 6 \& 4，0 \\
\hline \begin{tabular}{l}
Н \(\chi \rho \eta ́ \sigma \eta \tau \omega v \mu \varepsilon ́ \tau \rho \omega \nu \pi \rho о \sigma \tau \alpha \sigma \dot{\alpha} \alpha \varsigma \kappa \alpha \tau \dot{\alpha}\) \(\tau \eta ~ \chi \rho \eta ́ \sigma \eta ~ \gamma \varepsilon \omega \rho \gamma і к ळ ́ v ~ \varphi \alpha \rho \mu \alpha ́ к \omega v, ~ \theta \alpha\) \\
 \(\varepsilon \vee \eta \mu \varepsilon ́ \rho \omega \sigma \eta ~ \gamma 1 \alpha\) то \(\pi\) о́т \(\varepsilon \kappa \alpha ı \pi \omega \varsigma ~ v \alpha ~ \tau \alpha\) хр \(ә \not \mu о \pi о є \varepsilon і ́ \tau \alpha\) ：
\end{tabular} \& val
óqı \& 100
50 \& 67,0
33,0 \\
\hline \multirow[b]{3}{*}{ （弓а́ \(\lambda \eta\) ，то́бๆ \(\pi \rho \circ \varsigma \varepsilon \mu \varepsilon \tau о ́, \tau \rho \varepsilon ́ \mu о v \lambda о\) ， ภv́блvoı \(\alpha\) ка兀о́ тๆ \(\chi \rho \eta ́ \sigma \eta ~ \gamma \varepsilon \omega \rho \gamma ı к о v ́ ~\) фариа́кот；} \& \begin{tabular}{l}
\(\Sigma \tau \alpha \mu \alpha \tau \alpha ́ \tau \varepsilon \gamma 1 \alpha \lambda\) д́үo \(\tau \eta \nu \chi \rho \eta ́ \sigma \eta\) точ каı лívete vepó \\
П入દ́vยєє то \(\pi \rho о ́ \sigma \omega \pi о ~ \sigma \alpha \varsigma ~ \kappa \alpha ı\) к \(\alpha \theta \varepsilon \sigma \tau \varepsilon\)
\end{tabular} \& 30
21 \& 21,0
15,0 \\
\hline \&  \& 16 \& 11，0 \\
\hline \& \begin{tabular}{l}
 \(\alpha \dot{\alpha} \lambda \omega \sigma \tau \varepsilon\) \(\sigma \varepsilon \lambda\) í \(о\) O \(\theta \alpha \varepsilon \lambda \varepsilon є \omega ́ v \alpha \tau \varepsilon\) \\
 そєкоирабтві́тє Паípvєтє тๆ \(\lambda \hat{\varepsilon} \varphi \omega v\) о \(\tau о\) кદ́vтро \(\delta \eta \lambda \eta \tau \eta \rho \stackrel{\alpha}{\sigma} \sigma \varepsilon \omega v\) \\
 \(\sigma \alpha \varsigma \pi \alpha ́ \varepsilon ı ~ \sigma \varepsilon\) ع́v人 vобокоиєío ŋ́ кย́vтро vүعía̧ \(\mu \alpha \zeta ̌ i ́ \mu \varepsilon \tau \eta \nu\) єтькє́та 兀оv фарио́коข лоv \(\psi \varepsilon \kappa \alpha ́ \sigma \alpha \tau \varepsilon\)
\end{tabular} \& 12
15
15

50 \& 8,0
10,0

35,0 <br>
\hline ＇ЕХєтє $\pi \alpha ́ \varepsilon ı ~ \sigma \tau о ~ v о б о к о \mu \varepsilon і ́ о ~ v ı ஸ ́ \theta о v \tau \alpha \varsigma ~$ $\alpha \delta ı \alpha \theta \varepsilon \sigma i ́ \alpha, \varepsilon \xi \alpha ı \tau i ́ \alpha \varsigma ~ \tau \eta \varsigma ~ \chi \rho \eta ́ \sigma \eta \varsigma$ \& Nar \& 35 \& 23，33 <br>
\hline
\end{tabular}

үє $\omega \boldsymbol{\rho}$ кои́ $\varphi \alpha \rho \mu \alpha ́ к о v, \chi \omega$ рís $\tau \alpha$ $\kappa \alpha \tau \alpha ́ \lambda \lambda \eta \lambda \alpha \mu \varepsilon ́ \sigma \alpha \pi \rho о \sigma \tau \alpha \sigma i ́ \alpha ; ;$
${ }^{\prime}{ }^{\prime} \chi_{1}$
















 хрпбьнолотєітє:






## 

 $\pi \rho \alpha \kappa \tau \iota \kappa \dot{\varepsilon} \varsigma \omega \varsigma \pi \rho о \varsigma \tau \eta \nu \varepsilon \varphi \alpha \rho \mu о \gamma \dot{\sim}$ тоvऽ;
 $\varepsilon v ต ́ v o v \tau \alpha \varsigma ~ \tau ו \varsigma ~ \varepsilon \rho \omega \tau \eta ́ \sigma \varepsilon ા \varsigma ~ \sigma \varepsilon ~ \kappa \alpha ́ \theta \varepsilon ~ \varepsilon v o ́ \tau \eta \tau \alpha ~ \mu \varepsilon ~ \chi \rho \eta ́ \sigma \eta ~ \tau о v ~ \mu \varepsilon ́ \sigma о v ~ o ́ \rho о v ~ \tau \mu ஸ ́ v . ~$









 $\sigma \cup \mu \mu \varepsilon \tau \varepsilon ́ \chi о \nu \tau \varepsilon \varsigma ~ \sigma \cup v o \lambda ı \alpha ́ \alpha ~ \sigma \tau о ~ \varepsilon \rho \omega \tau \eta \mu \alpha \tau о \lambda o ́ \gamma ı ~(t o t a l ~ s c o r e ~=~ 11,7 / 21), ~ \tau о ~ \sigma к о \rho ~ \pi о v ~$

 $\pi \rho \alpha \kappa \tau \iota \varepsilon \varepsilon ́ \varsigma ~ \kappa \alpha \tau \alpha ́ ~ \tau \eta v ~ \varepsilon \varphi \alpha \rho \mu о \gamma \eta ́ ~ \tau \omega v \gamma \varepsilon \omega \rho \gamma \iota \kappa \dot{v} \varphi \alpha \rho \mu \alpha ́ \kappa \omega v$ (score op $\theta \dot{\omega} v \pi \rho \alpha \kappa \tau \iota \kappa \dot{v} v=$ 4,7/21).












 Ікаvолоџтוкє́ц»．

## $2^{0} \varepsilon \rho \varepsilon v v \eta \tau \iota \kappa$ о́ $\varepsilon \rho \omega ́ \tau \eta \mu \alpha$

 $\chi \rho \dot{\sigma} \eta_{\tau} \tau \omega v$ 甲ото甲 $\alpha \mu \dot{\alpha} \kappa \omega v ;$

## Н $\lambda_{ı к i ́ \alpha}$









 Ікаvотоџтıка́»．



## Мор甲ютוко́ $\varepsilon \pi i ́ \pi \varepsilon \delta о$

 $\mu о \rho \varphi \omega \tau \iota \kappa o ́ ~ \varepsilon \pi i ́ \pi \varepsilon \delta о ~ \tau \omega v ~ \sigma \nu \mu \mu \varepsilon \tau \varepsilon \chi о ́ v \tau \omega v$ ．＇О $\pi \omega \varsigma ~ \varphi \alpha i ́ v \varepsilon \tau \alpha ı ~ \pi \alpha \rho \alpha \kappa \alpha ́ \tau \omega ~ к \alpha ı ~ \mu \varepsilon ~ \tau \eta ~ \chi \rho \eta ́ \sigma \eta$






 «AEI/TEI» ह́ $\chi \circ \cup v$ score $=13,8 / 21 \quad \delta \eta \lambda \alpha \delta \eta ́ ~ \tau \alpha ~ \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \tau o v \varsigma ~ \varepsilon i ́ v \alpha ı « M \varepsilon ́ \tau \rho ı \alpha ~$ Ікаvотоџт七ко́».



## K $\alpha \tau \alpha ́ \kappa$ ки́pıo $\varepsilon \pi \alpha ́ \gamma \gamma \varepsilon \lambda \mu \alpha \alpha \gamma \rho о ́ \tau \eta \varsigma$



'О $\pi \omega \varsigma ~ \varphi \alpha i v \varepsilon \tau \alpha ı ~ \pi \alpha \rho \alpha к \alpha ́ \tau \omega ~ к \alpha ı ~ \mu \varepsilon ~ \tau \eta ~ \chi \rho \eta ́ \sigma \eta ~ \tau \eta \varsigma ~ \pi \varepsilon v \tau \alpha \beta \alpha \theta \mu ı \alpha i ́ \alpha \varsigma ~ к \lambda i ́ \mu \alpha к \alpha \varsigma ~ L i k e r t, ~ o 七 ~$


 عíval «Mह́t $\rho 1 \alpha$ Iкаvотоџтıко́».



## Ka入入ı $\varepsilon$ pүعı $\alpha$

То Гра́ $甲 \mu \alpha 34 \pi \alpha \rho о v \sigma ı \alpha ́ \zeta \varepsilon ı ~ \tau \alpha ~ \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \sigma \varepsilon ~ s c o r e ~ \pi о v ~ \pi \rho о к о ́ \pi \tau о v v ~ \alpha v \alpha ́ ~ \tau \eta ~$













[^2]
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То Гра́чๆ $\mu \alpha 35 \pi \alpha \rho о v \sigma i \alpha ́ \zeta \varepsilon ı ~ \tau \alpha ~ \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \sigma \varepsilon ~ s c o r e ~ \pi о v ~ \pi \rho о к и ́ \pi \tau о v v ~ \alpha v \alpha ́ ~ \tau о ~ v о \mu o ́ ~$









## 

Tо Гра́ $\varphi \eta \mu \alpha 36 \pi \alpha \rho о \cup \sigma ı \alpha ́ \zeta \varepsilon ı ~ \tau \alpha ~ \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \sigma \varepsilon ~ s c o r e ~ \pi о v ~ \pi \rho о к ט ́ \pi \tau о v \nu ~ \sigma \varepsilon ~$
 фо́р $\mu к \alpha$.








## 




 $\varepsilon \rho \omega \tau \eta \theta \dot{v \tau \varepsilon \varsigma ~ \pi о v ~ \varepsilon ́ \chi o v v ~ \lambda \alpha ́ ß \varepsilon ı ~ \pi ı \sigma \tau о \pi о i ́ \eta \sigma \eta ~ \varepsilon ́ \chi o v v ~ s c o r e ~=~ 9,73 / 21, ~ \delta \eta \lambda \alpha \delta ŋ ́ ~} \tau \alpha$
 $\lambda \alpha ́ \beta \varepsilon ı ~ \pi ı \sigma \tau о \pi о i ́ \eta \sigma \eta ~ \varepsilon ́ \chi o v v ~ s c o r e=9,28 / 21, \delta \eta \lambda \alpha \delta \eta ́ \tau \alpha \alpha \pi о \tau \varepsilon \lambda \varepsilon ́ \sigma \mu \alpha \tau \alpha ~ \tau о \cup \varsigma ~ \varepsilon i ́ v \alpha ı ~ \varepsilon \pi i ́ \sigma \eta \varsigma$ «ムíyo Ікаvотоџтıка́».




## $\Sigma v \mu \pi \varepsilon \rho \alpha ́ \sigma \mu \alpha \tau \alpha$





 $\pi \rho о ́ \tau v \pi о ~ о \lambda о к \lambda \eta \rho \omega \mu \varepsilon ́ v \eta \varsigma ~ \gamma \varepsilon \omega \rho \gamma і ́ \alpha \varsigma$.




 $\alpha \nu \alpha \gamma \rho \alpha ́ \varphi \varepsilon \iota ~ \tau о v ~ \alpha \rho ı \theta \mu o ́ ~ \varepsilon ́ \gamma к \rho ı \sigma \eta ร ~ Y П А А Т ~ \kappa \alpha ı ~ \tau \eta ~ к \alpha \lambda \lambda ı \varepsilon ́ \rho \gamma \varepsilon ı \alpha ~ \gamma ı \alpha ~ \tau \eta \nu ~ о \pi о і ́ \alpha ~$ $\pi \rho о о \rho і ́ \zeta \varepsilon \tau \alpha \iota ~ v \alpha \chi \rho \eta \sigma \mu о \pi о ъ \theta \varepsilon i ́$.












 $\pi \alpha \rho \alpha \gamma \omega \gamma$ о́s.
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 Атонкки́я Пробтабías (МАП) «Па́ра Поди́» бףцаขтıки́.
 $\pi \rho о$ óv $\tau \omega v$, ol $\varepsilon \rho \omega \tau \eta \theta \varepsilon ́ v \tau \varepsilon \varsigma ~ \sigma \tau \eta \nu ~ \pi \lambda \varepsilon \iota ๐ \psi \eta \varphi i ́ \alpha ~ \tau \circ \cup \varsigma ~ \alpha \pi \alpha ́ v \tau \eta \sigma \alpha \nu ~ \sigma \omega \sigma \tau \alpha ́ ~ o ́ \tau ı ~ \sigma \varepsilon$ $\pi \varepsilon \rho i ́ \pi \tau \omega \sigma \eta ~ \pi о v ~ \chi \cup \theta \varepsilon i ́ ~ \sigma \tau о ~ \delta \varepsilon ́ \rho \mu \alpha ~ \gamma \varepsilon \omega \rho \gamma ı к о ́ ~ \varphi \alpha ́ \rho \mu \alpha к о, ~ \pi \lambda \varepsilon ́ v о ч \mu \varepsilon ~ \mu \varepsilon ~ \alpha ́ \varphi \theta о v o ~ v \varepsilon \rho o ́ ~ к \alpha ı ~$








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 бт $\omega \mu \alpha \tau о \pi о џ \not \mu \varepsilon ́ v \eta ~ \delta \varepsilon \imath \gamma \mu \alpha \tau о \lambda \eta \psi i ́ \alpha ~(Ф \alpha \rho \mu \alpha ́ \kappa \eta \varsigma, ~ 2017) . ~ Е \pi i ́ \sigma \eta \varsigma, ~ \pi \rho о \tau \varepsilon i ́ v \varepsilon \tau \alpha ı ~ \eta ~ \chi \rho \eta ́ \sigma \eta ~$
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