

Results from survey regarding fluorine-free ski waxing



Survey fluorine-free ski waxing

270 responses in total

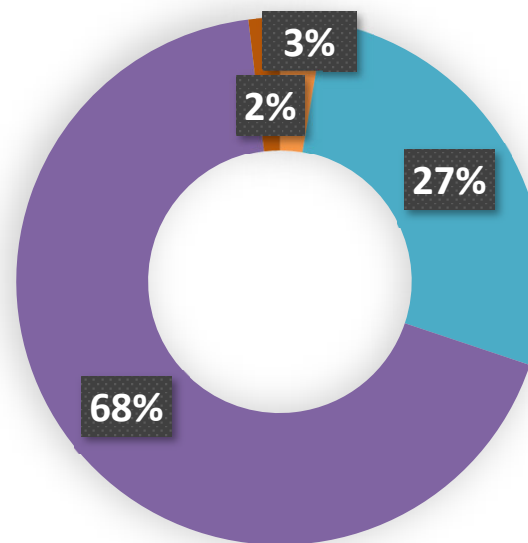
230 answered the last question

→ 85% completion rate

Spread through Vasaloppet Newsletter and
Facebook posts in ski forums

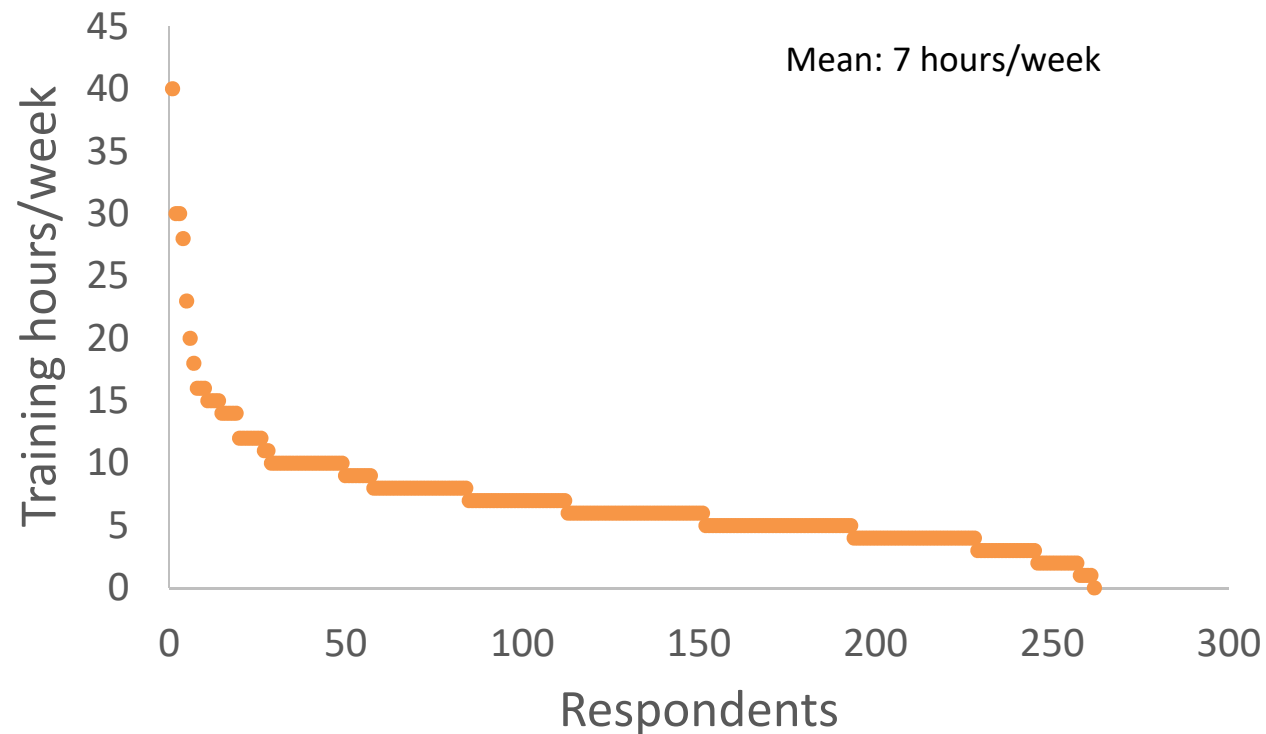
Q2. What kind of skier do you see yourself as?

Elite athlete Semi-elite athlete
Recreational athlete Beginner



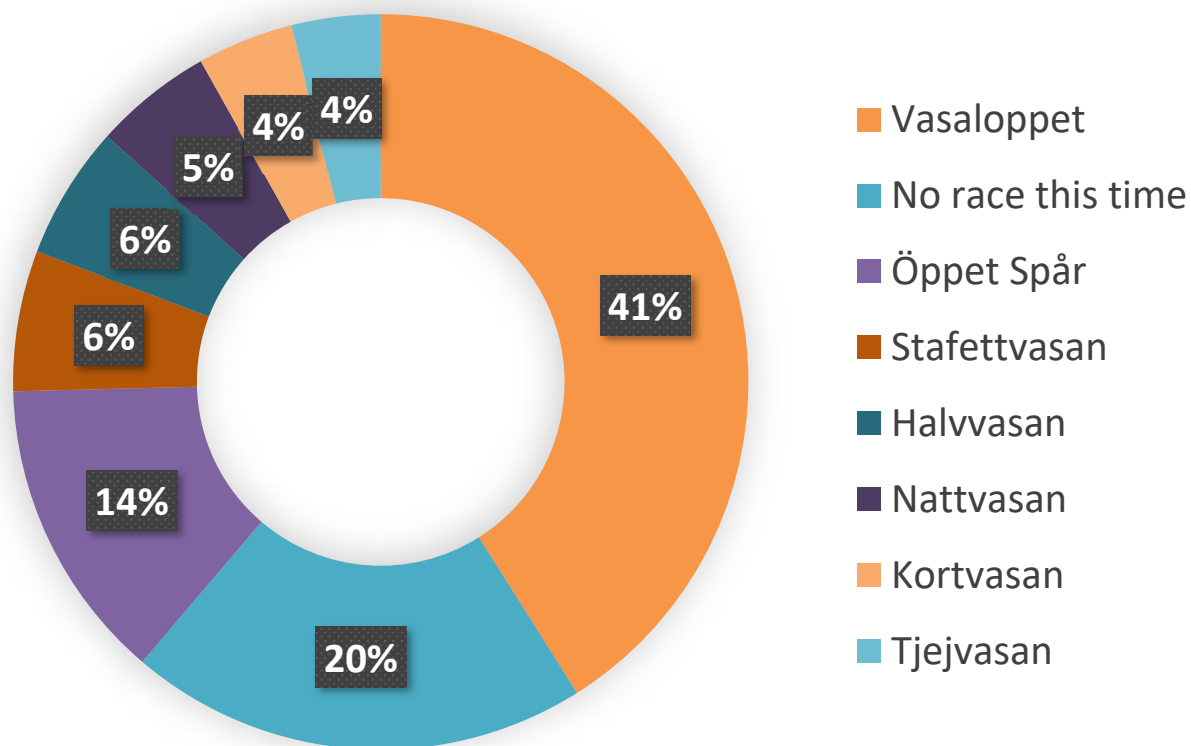
- *The respondents are mostly recreational skiers, with 30% competing on a regular basis*

Q3. Approximately how many hours do you exercise per week?

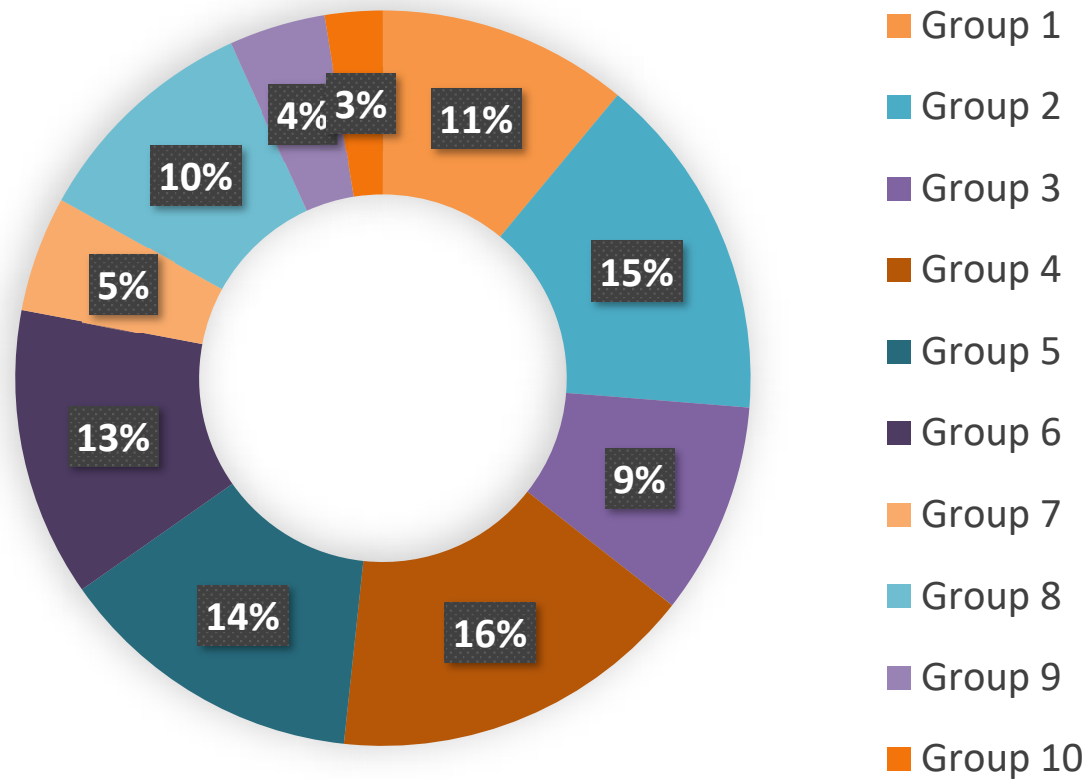


- *80% of the respondents exercise 5-10 hours a week with an average of 7 hours a week.*

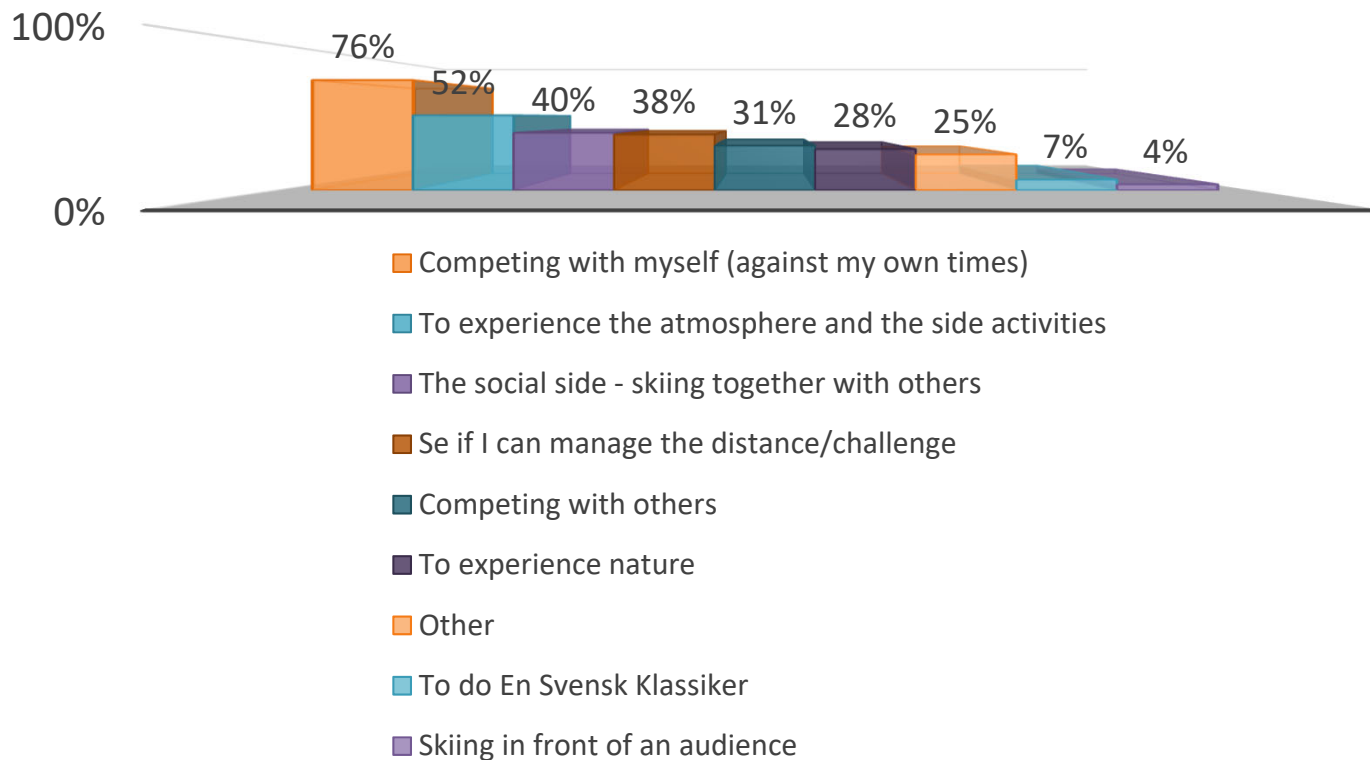
Q4. Which race(s) will you take part in during Vasaloppsveckan 2019?



Q5. If you are racing in Vasaloppet, which group will you start in?

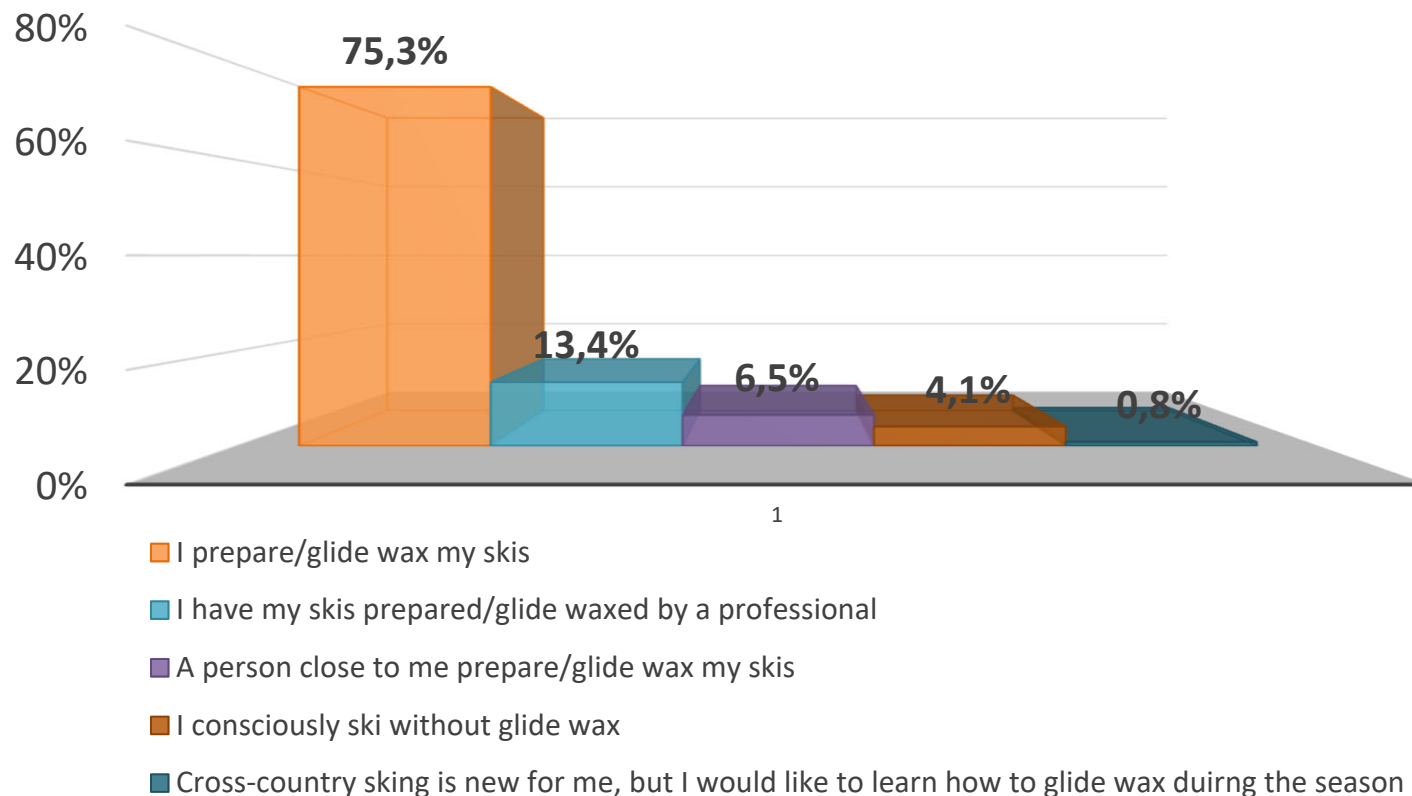


Q6. What are the three main things that motivate you to race (this time or in general)?



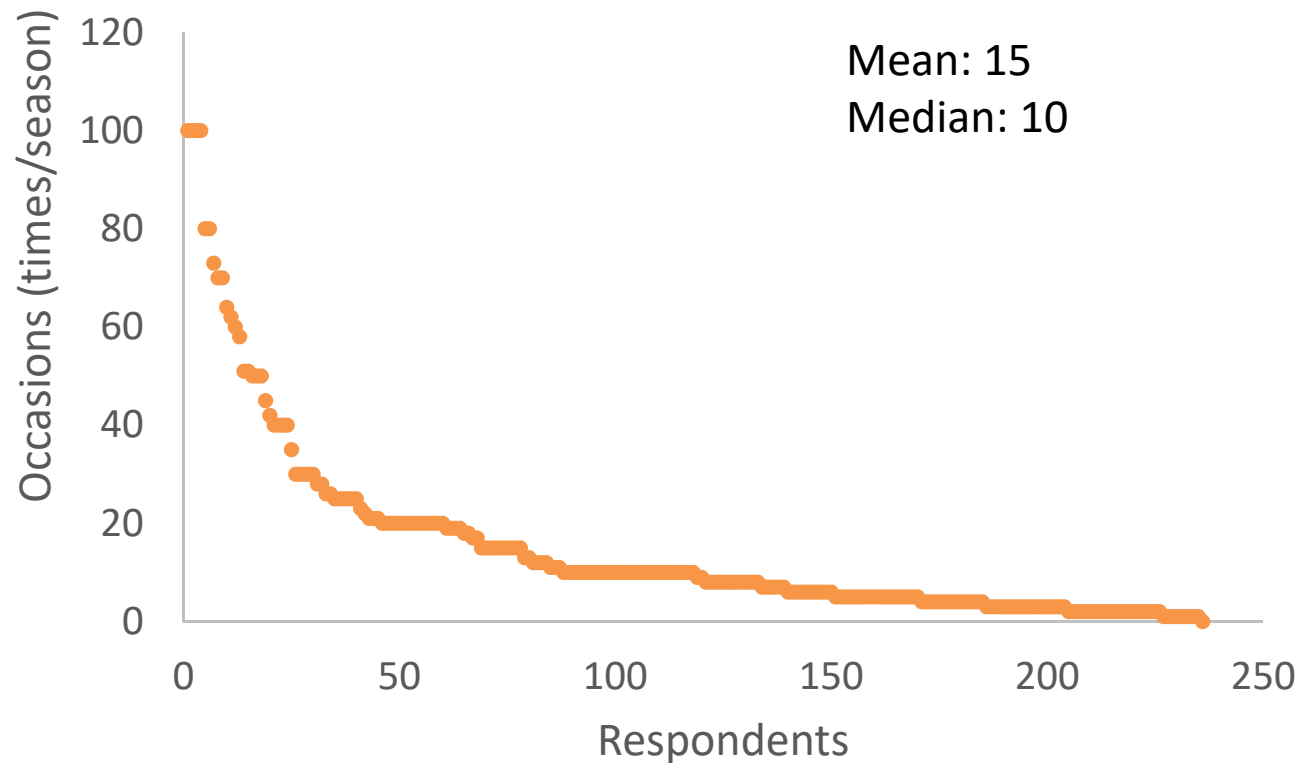
- *Highest rated motives are non-competitive. The actual need for fluorinated ski waxes is low among the majority.*

Q7. Which of the following statements regarding waxing best represent you?



- *The majority has an interest in ski preparation and some knowledge about Ski Waxes.*

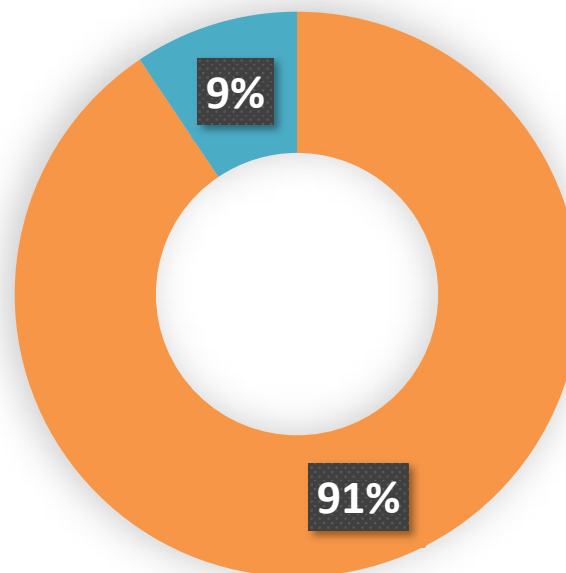
Q8. Approximately how many times per season are your skis glide waxed?



- *Glide waxing is made between 5 and 20 times each season by half of the respondents.*

Q9. Are you aware of that fluorine-free glide waxes exist?

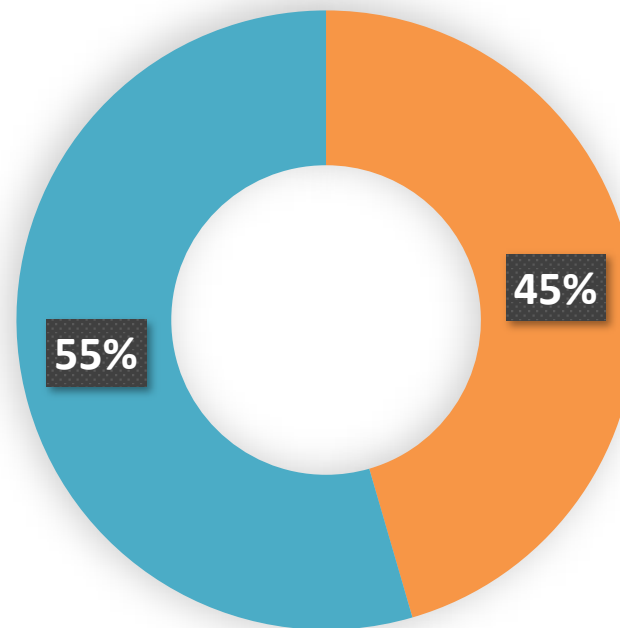
■ Yes ■ No



➤ *9 out of 10 know that fluorine-free ski waxes exist.*

Q10. Have you read and the taken notice and fluorine-free waxing options before a race?

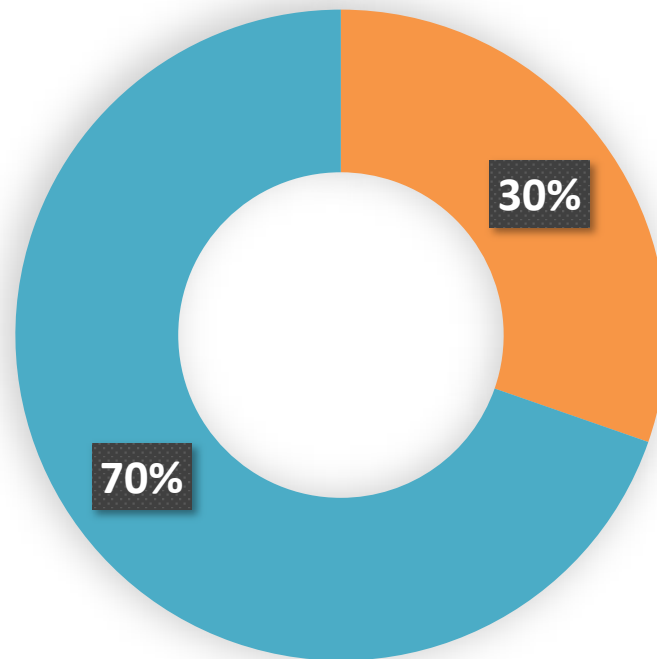
■ Yes ■ No



- *Almost half of the respondents have read about fluorine-free waxing services and tips.*

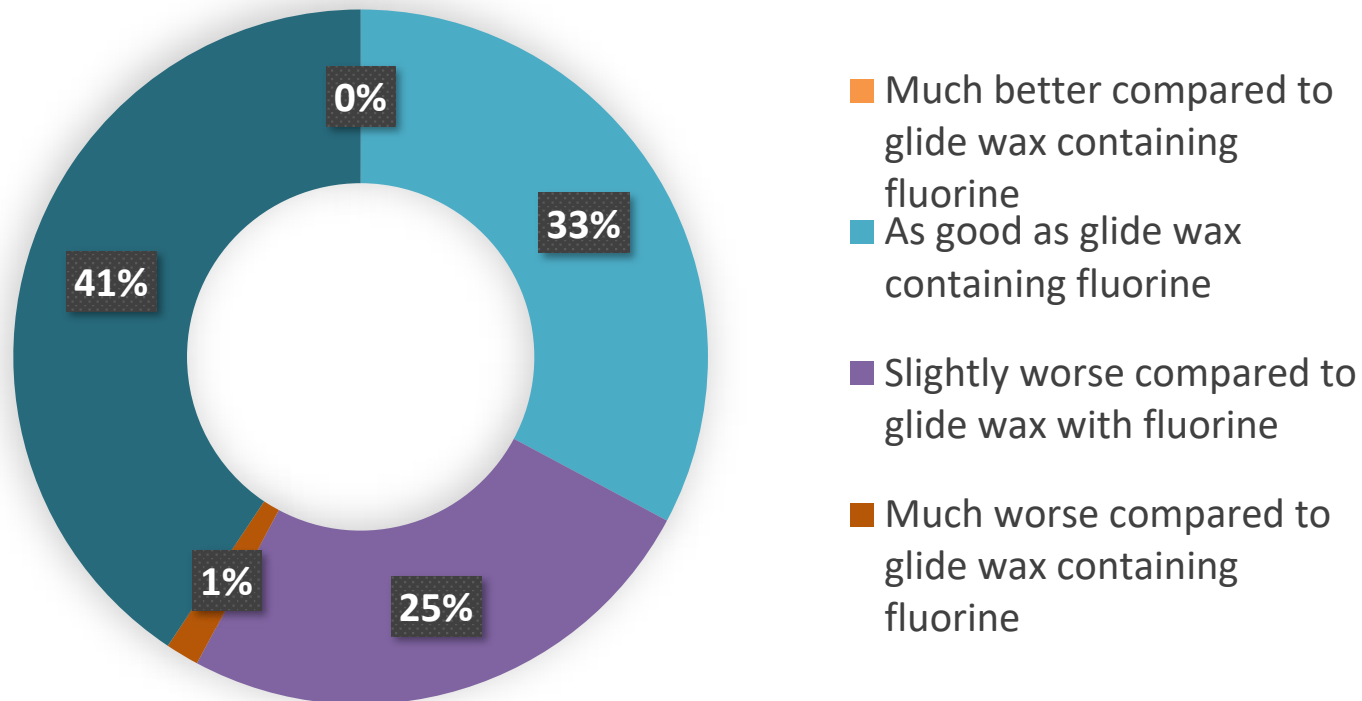
Q11. Have you deliberately chosen to race with fluorine-free glide wax under your skis?

Yes No



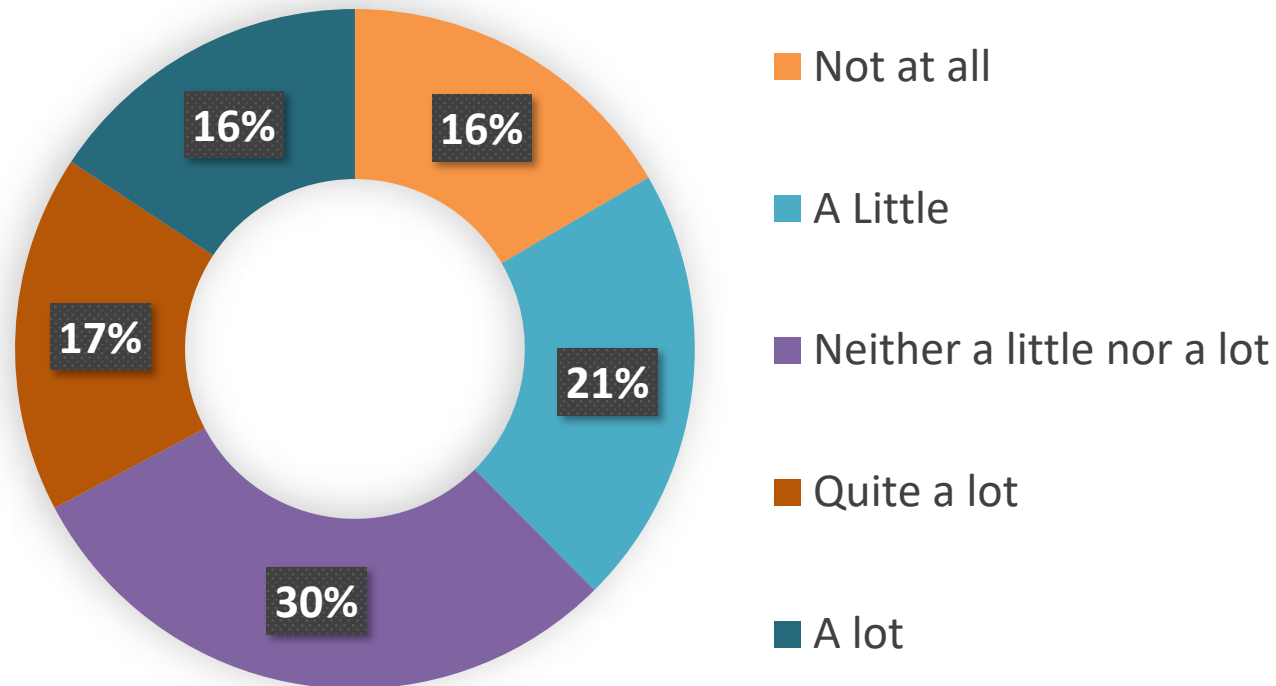
➤ 3 out of 10 have already tried fluorine-free waxes when racing.

Q12. How did you experience the glide when skiing on fluorine-free glide wax?



➤ *74% of those who tested fluorine-free couldn't feel a difference in glide from fluorinated waxes.*

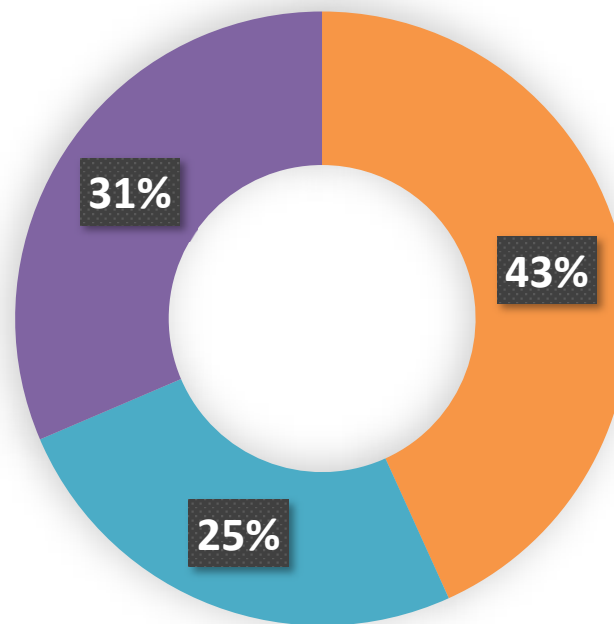
Q13. My ambition is to wax more fluorine-free this season



- *33% are highly motivated to wax more fluorine-free this winter. 51% are still undecided.*

Q14. Are you using “rilling” to create structures when preparing your skis?

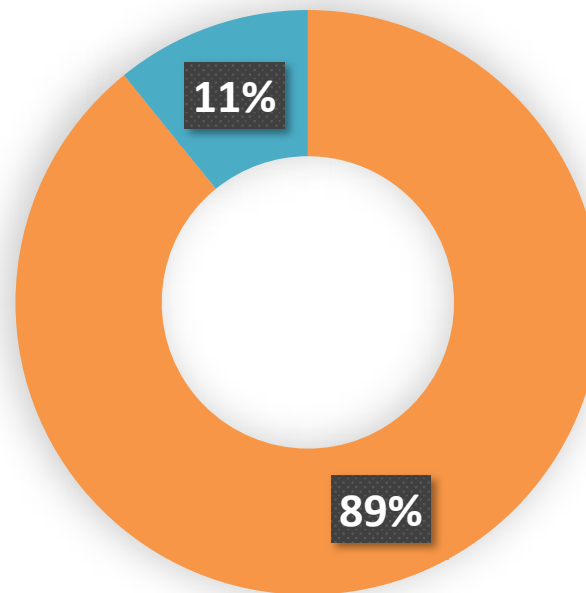
■ Yes, only when racing ■ Yes, when training and racing ■ No



➤ *Rilling is used by 2/3 of respondents.*

Q15. Do you imprint different structures (rillning) depending on temperature and snow conditions?

Yes No



- *Of the "rillers", 9 out of 10 choose their structure depending on conditions.*

Q16. What effect did imprinting structure (rillning) have on the glide?

A couple of selected quotes

“Stor skillnad, speciellt i blöta fören.”

” Mest påverkan på sugande känsla och före i spåret. Enormt stor skillnad i blött före.”

” Nästan alltid till det bättre, störst skillnad vid blötföre”

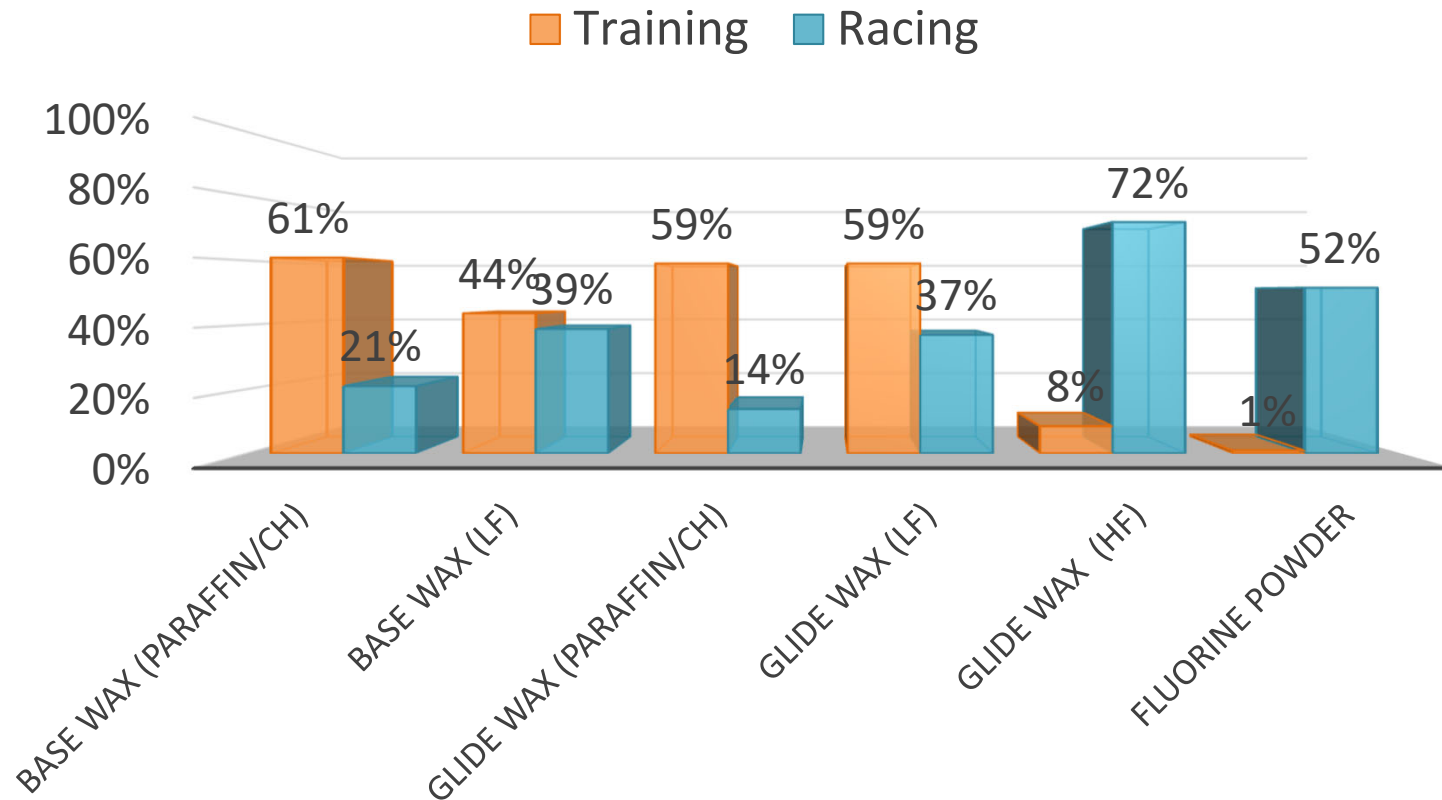
” Många gånger bättre än vad vallan gör eller i varje fall kompletterar vallan väldigt bra.”

” Har precis börjat med riller men visst påverkar det positivt”

” Speciellt bra i varmt före.”

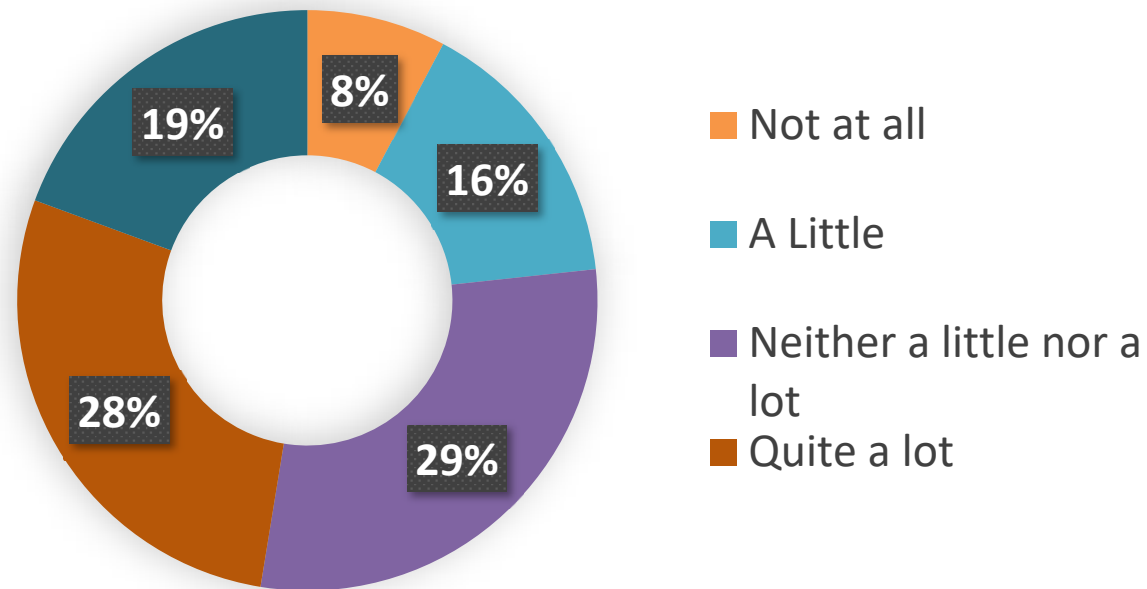
” Jag TROR det har stor skillnad, men eftersom jag äger för få skidpar för att kunna göra vettiga tester så VET jag faktiskt inte.”

Q17. Which ski wax are you using?



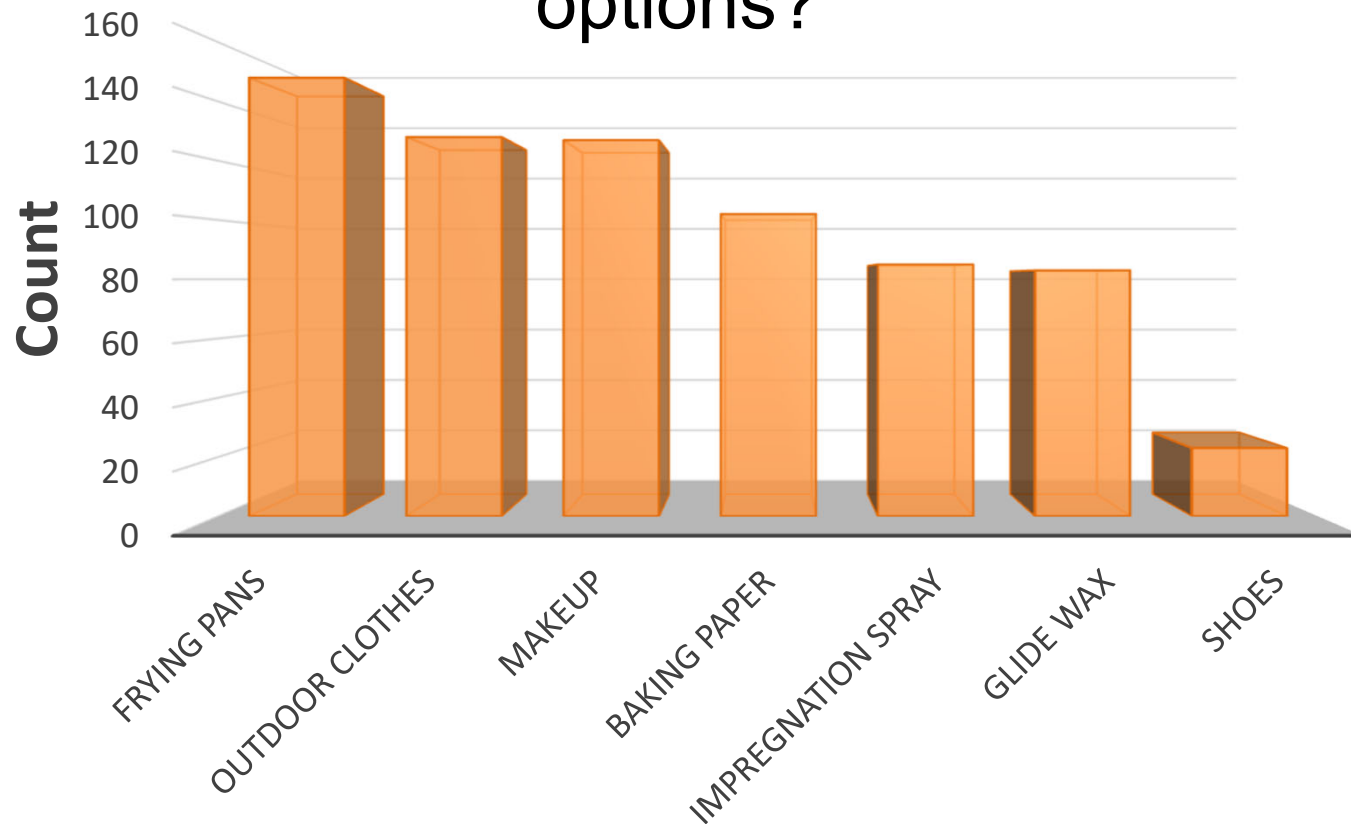
➤ *The general trend is to train on fluorine-free, and race on fluorinated waxes.*

Q18. Were you aware of the environmental and health risks associated with PFAS before taking part in this survey?



➤ *Less than half of the respondents had high knowledge of PFAS risks before this survey.*

Q19. Chose three of the products below where it feels most important to consider PFAS-free options?

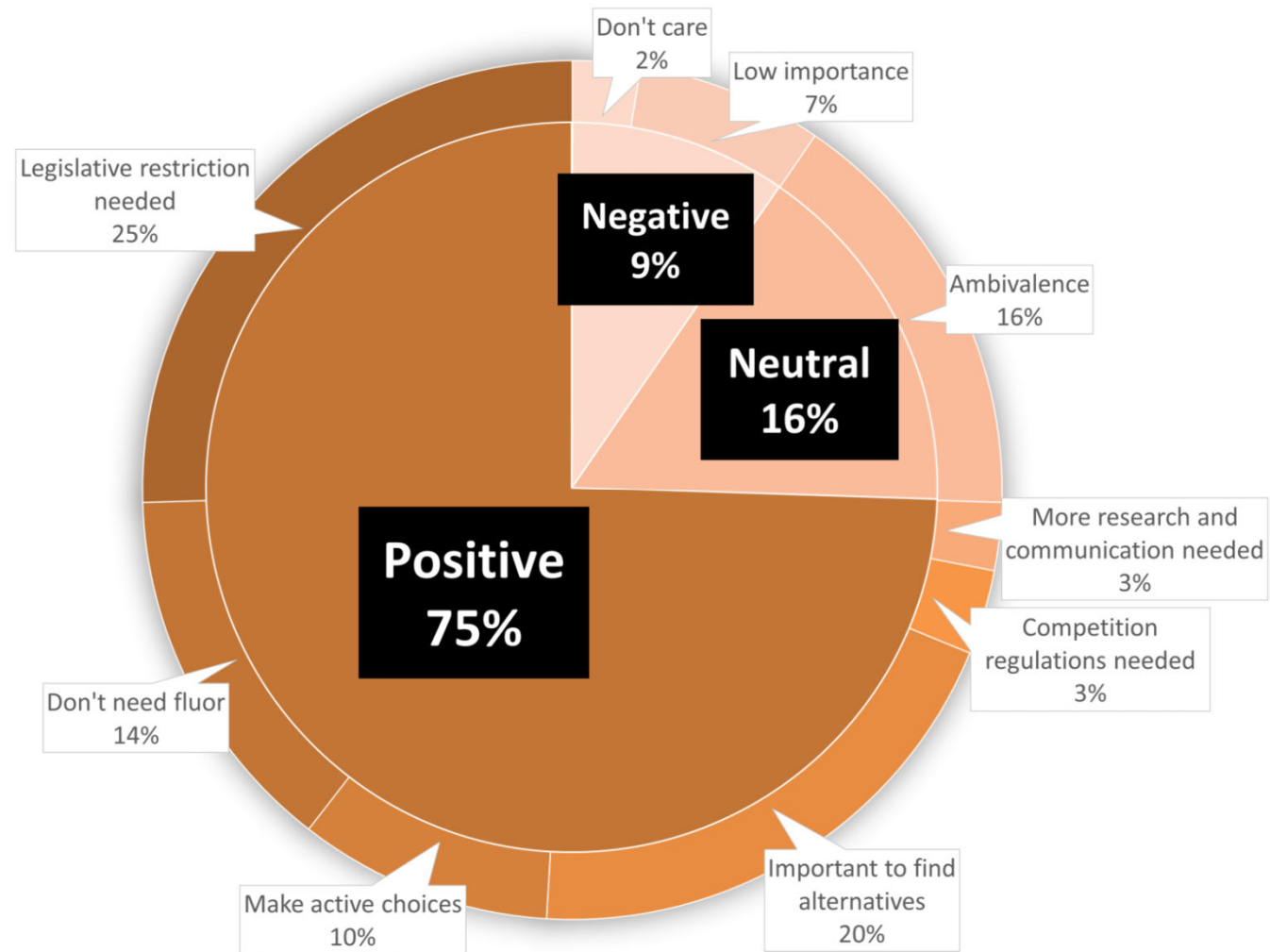


➤ *Awareness of chemical risks in different product groups are likely related to media exposure.*

Q20. PFAS/highly fluorinated compounds provide good glide and moisture-repellence, but at the same time they pose health and environmental problems.

How do you feel about this challenge?

Q20. Attitudes to substituting fluorinated waxes



(based on analysis of free text comments)

Citat från
Vasaloppsåkare
om fluorvalla och miljö

Nov-Dec 2018

”Inför fluorfria tävlingar så att förutsättningarna blir lika för alla.”

”Alternativen är tillräckligt bra för mig så jag skippar fluor för miljöns skull.”

”Ta bort det för alla. Om ingen kan använda blir det ingen enskild som får fördel/nackdel”

”Att vi behöver alternativ. Och att vi måste vara beredda att offra lite funktion för att inte belasta miljön.”

”Finns produkter som har samma effekt som pulvervalla så kommer jag använda dem, fram till dess kör jag på det som funkar på tävling”

”Bra med produktutveckling av
fluorfria vallor.”

”Ser gärna ett generellt fluorvalla
förbud för all skidåkning och ett
bra sätt att enkelt se att det
efterlevs”

”Som motionär kan jag avstå från dessa vallor. Efter denna enkät kommer jag att försöka hitta alternativ”



”Bra glid och vattenavstötning är inga rättigheter och medför endast en miljöbelastning. Förbjud ämnena, vad gäller skidor så bör tävlingsförbud införas samt försäljning av produkter med ämnena i. Förutsättningarna kommer vara samma för alla så det påverkar ej sporten.”



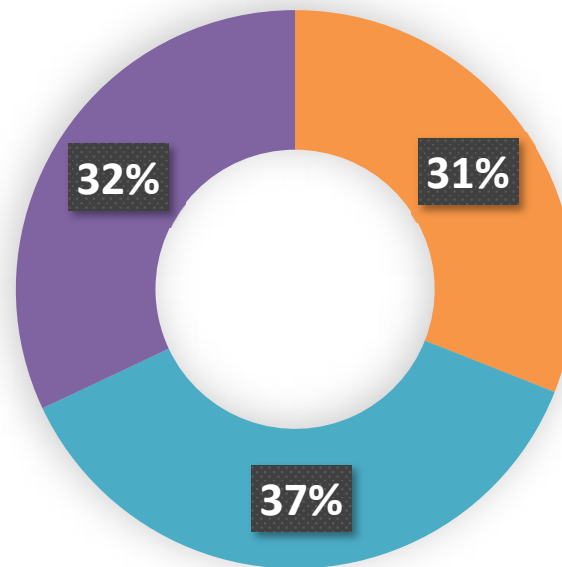
”Det går att välja bort”

”Det är egentligen vansinne att använda fluor i valla åtminstone på träning och i synnerhet för oss motionärer. Även i kläder är det ett otyg.”

”Det kommer att gå tyngre i skidspåret. Får försöka att träna lite mer för att kompensera :-)”

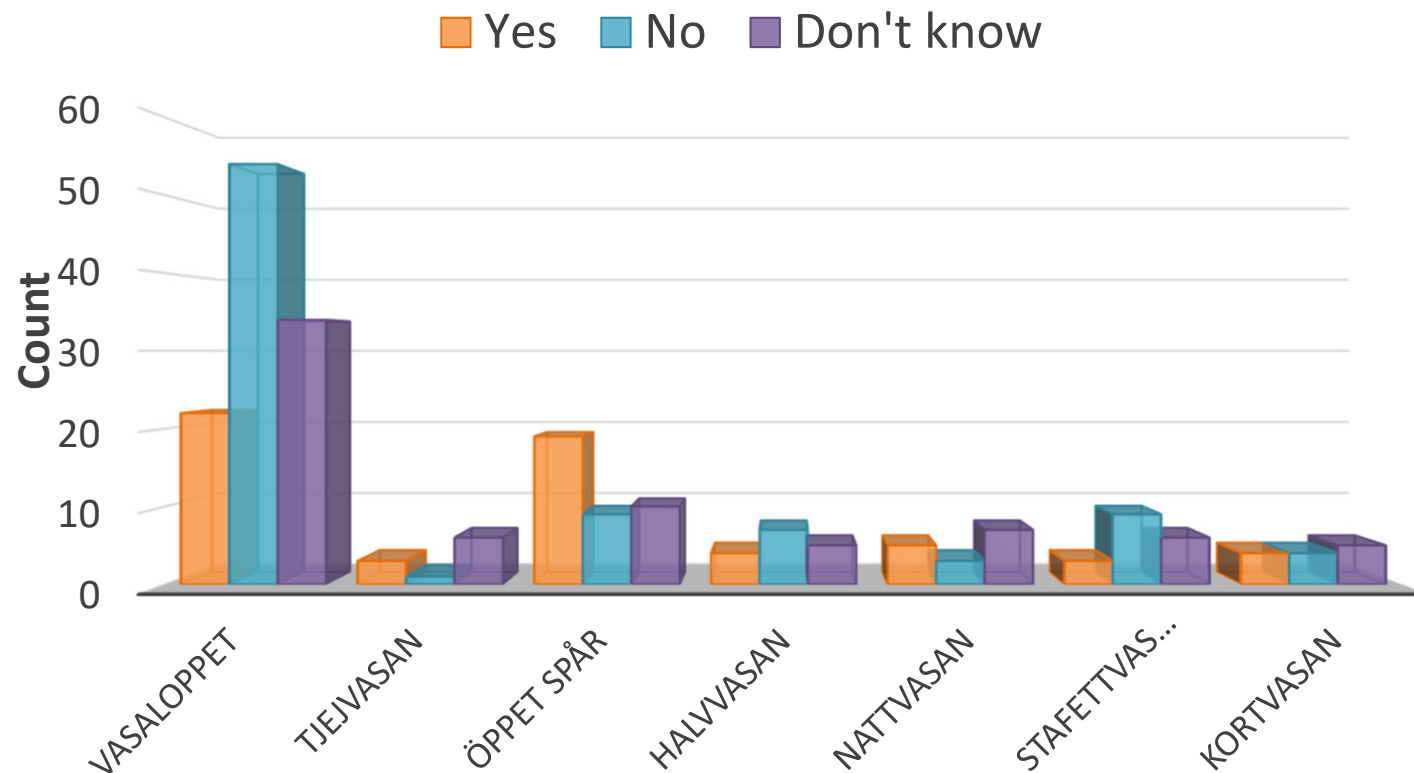
Q21. Do you plan to use or ask for fluorine-free wax before your race(s) during Vasaloppsveckan?

Yes No Don't know



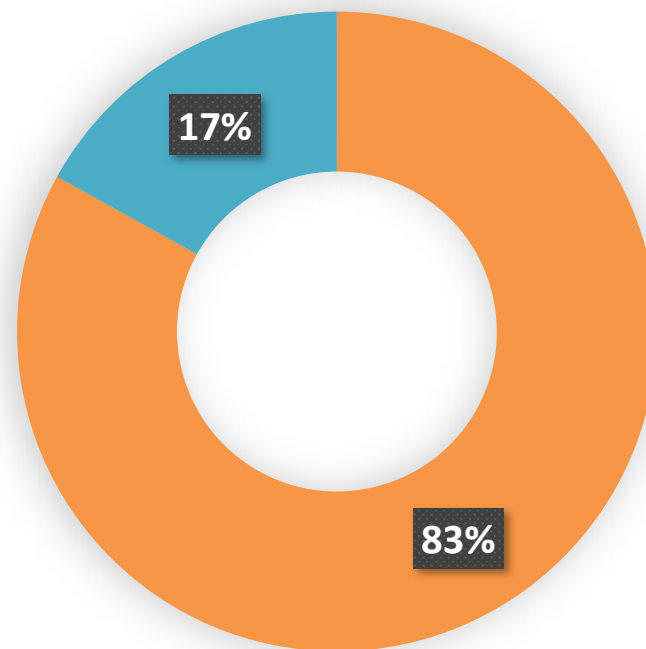
- *One third plan for fluorine-free waxing during Vasaloppsveckan. One third is still undecided.*

Q21. Do you plan to use or ask for fluorine-free wax before your race(s) during Vasaloppsveckan?



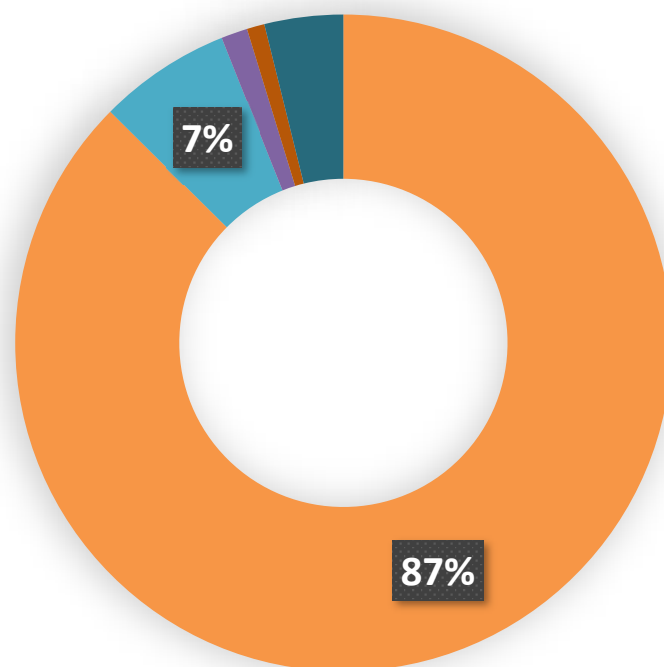
Q22. What is your gender?

■ Male ■ Female



Q24. What is your nationality?

Sweden Denmark Norway Finland Other



AT - Austria
BA - Bosnia and Herzegovina
CZ - Czech Republic
DE - Germany
ES - Spain
GB - United Kingdom
IS - Iceland
IT - Italy
TC - Turks and Caicos Islands

