

## Threshold for the Swedish IFS 2020

For the IFS 2020 Sweden intends to continue with the thresholds already established for national purposes, see Table 1 below. This means that all holdings meeting at least one of the thresholds in Table 1 will be included in the target population.

**Table 1 Physical thresholds in Sweden**

Item	Threshold
UAA	5 ha
Arable land	2 ha
Horticultural production under glass	200 m <sup>2</sup>
Horticultural production outdoor	2500 m <sup>2</sup>
Cattle	10
Sows	10
Pigs	50
Sheep	20
Poultry	1000

In the following pages we have made some calculations to make proof that the:

1. holdings above at least one of the IFS threshold cover more than 98 % of the standard output of the whole frame, and
2. holdings above at least one of the raised thresholds cover at least 98 % of the UAA and at least 98 % of the LSUs of the whole frame.

## 1. Proof that threshold according regulation 2018/1091 covers at least 98 % of the standard output

An approximate calculation has been made to prove that the threshold raised by regulation 2018/1091 covers more than 98 % of the standard output. The calculation has been done on the 2016 data and we have used average SO-values for each product not using regional differences. This to make the calculations possible. This approximation gives an overestimation on the total standard output value by ca 1.0 % (5 234 909 990/5 182 254 834). We believe that this difference however should be effected in all calculated values.

**Table 2 Total standard output value in different thresholds**

	<b>Total SO, euro</b>	<b>Total SO, threshold according 2018/1091, euro</b>	<b>Total SO, threshold according table 1, euro</b>
Calculated values	5 281 056 502	5 278 394 214	5 234 909 990
2016 real values			5 182 254 834

By these calculated figures the threshold according to regulation 2018/1091 covers approximately 99.95 % of the total standard output. The threshold that we have suggested in table 1 still covers approximately 99.13 % of the total standard output value.

By this example calculations it should be well proven that for Sweden the holdings above at least one of the IFS thresholds by far covers more than 98 % of the standard output of the whole frame.

## 2. Proof that suggested threshold covers at least 98 % of UAA and at least 98 % of LSUs

### 2.1 UAA covered by thresholds in accordance with table 1

The Statistical Farm Register (SFR), which has been used as a frame for all agricultural surveys in Sweden since 1968, will also be the frame for the IFS 2020. The SRF is updated annually with data taken from IACS but contains also information on holdings that do not apply for subsidies and therefore are not on the IACS register. Holdings not applying for subsidies are surveyed every time we conduct a Farm Structure Survey (FSS). The SFR is also annually updated with information from other surveys, mainly livestock surveys and from the Cattle register. In order to establish a well-updated population frame, an additional survey (*Register survey 2018*) was sent out to 4 900 holdings, which

in 2016 were included on the FSS population but in 2018 could not be found on the IACS system. These holdings were asked whether they still met at least one of the criteria in Table 1, and if not, what had happened to the agricultural holding that was active during 2016. About 50 % answered the survey and the results from the survey showed that about 45% of the surveyed holdings fulfilled the inclusion criteria but did not apply for subsidies; about 55 % holdings had new holders or had finished with farming activities and therefore did not appear in IACS. All these holdings will be included in the IFS 2020 population. The information from the survey will also be used for better updating of the frame from IFS.

**Table 3 Coverage of UAA using Swedish thresholds**

<b>Areas from different groups</b>	<b>UAA covered by thresholds 2018</b>	<b>UAA not covered by thresholds 2018</b>	<b>Coverage</b>
IACS-areas	2 985 795 ha	5 416 ha	
Areas outside IACS	14 752 ha	1 033 ha	
Total	3 000 547 ha	6 449 ha	99,8 %

The calculations in Table 3 show that by using the thresholds presented in Table 1, Sweden covers 99.8 % of its Utilized Agricultural Areas. There is a small risk that we could have missed some small areas, especially fellow land, outside this scope. However, this area is excessively little to effect the requested coverage of 98 % of the UAA.

## **2.2 Livestock Units covered by thresholds in accordance with table 1**

We have information on the number of animals in Sweden from different sources. While the data for cattle is obtained from the Cattle register, the data for sheep, pigs and poultry is obtained through the annually conducted livestock survey. . Based on this information we can calculate an approximate figure on the total Livestock Units.

**Table 4 Coverage of LSU using Swedish thresholds**

Characteristic of animal	Coefficient	Number of animals in thresholds	Number of animals in total	LU:s in threshold	LU:s in total	Source
Bovine animals						
- less than 1 year old	0,4	474 817	475 363	189 927	190 145	CR18
- 1 to less than 2 years old	0,7	380 498	381 096	266 349	266 767	CR18
- male, 2 years old and over	1	33 073	33 242	33 073	33 242	CR18
- heifers, 2 years old and over	0,8	84 603	84 960	67 682	67 968	CR18
- dairy cows	1	319 387	319 389	319 387	319 389	CR18
- non dairy cows	0,8	214 257	215 464	171 406	172 371	CR18
Sheep and goats						
- Sheep	0,1	587 256	657 585	58 726	65 759	LS18
- Goats	0,1	NS	19 885	0	1 989	GS18
Pigs						
- Piglets, live weight of under 20 kg	0,027	360 549	361 000	9 735	9 737	LS18
- Breeding sows, live weight 50 kg and over	0,5	130 302	131 000	65 151	65 193	LS18
- Other pigs	0,3	902 398	903 000	270 719	270 783	LS18
Poultry						
- Broilers	0,007	9 196 953	9 200 000	64 379	64 388	LS18
- Laying hens	0,014	7 699 306	7 800 000	107 790	107 877	LS18
- Turkeys	0,03	130 348	131 000	3 910	3 910	FSS16
- Ducks	0,01	NS	9 150	0	92	SS18
- Geese	0,02	NS	15 472	0	309	SS18
- Ostriches	0,35	NS	1 825	0	639	SS18
- Other pultry fowls n.e.c.	0,001	NS	555 904	0	556	SS18
Rabbits, breeding females	0,02	NS	10 000	0	200	SR
<b>Total</b>				<b>1 628 234</b>	<b>1 641 314</b>	

As shown in Table 3, Sweden covers 99.2 of all Livestock units by using the thresholds presented in Table 1. This shows that the suggested thresholds cover 98 % of the LSU by some margin.

### **Sources and explanations**

CR18 = Cattle register in June 2018.

LS18 = Livestock survey in June 2018. For the total number of sheepes these are estimated by share from special survey in December 2018. For pigs and poultry the total number of animals is estimated using animals on production places not covered by survey.

GS18 = Goat Survey in June 2018.

FSS16 = Farm Structure Survey in June 2016.

SS18 = Estimated based on slaughtering statistics 2018.

SR= Swedish Rabbit Producers, expert opinion

### **3. Summary**

The calculations made in this document shows that the thresholds according regulation 2018/1091 covers approximately 99.95 % of the total standard output in Sweden.

Furthermore, the raised threshold suggested by Sweden covers 99.8 % of the UAA and 99.2 % of the LSUs.