

Waterloo Wind Farm Survey April 2012 - Part 2 Graphs v2

M Morris. 2012.

This document is to be read in conjunction with “Waterloo Wind Farm Survey April 2012 – Select Committee “ by M Morris which can be found on line at:

www.wind-watch.org/news/wp-content/uploads/2012/07/Waterloo-Wind-Farm-Survey-April-2012-Select-Committee.pdf

These graphs serve to demonstrate the extent of noise disturbance, sleep disturbance and self described adverse effects from the Waterloo wind farm in SA.

Method and Results

An anonymous self reporting survey and letter of introduction explaining why the survey was being conducted, was posted or delivered to all households within or near a 10 kilometre zone of the Waterloo Wind farm.

Of the 230 surveys delivered 93 households returned completed surveys. 40% response rate.

For the 93 households located approximately within a **radius of 10 kilometres** of the Waterloo Wind farm, 49% were disturbed by impacts including noise, visual flicker or television reception.

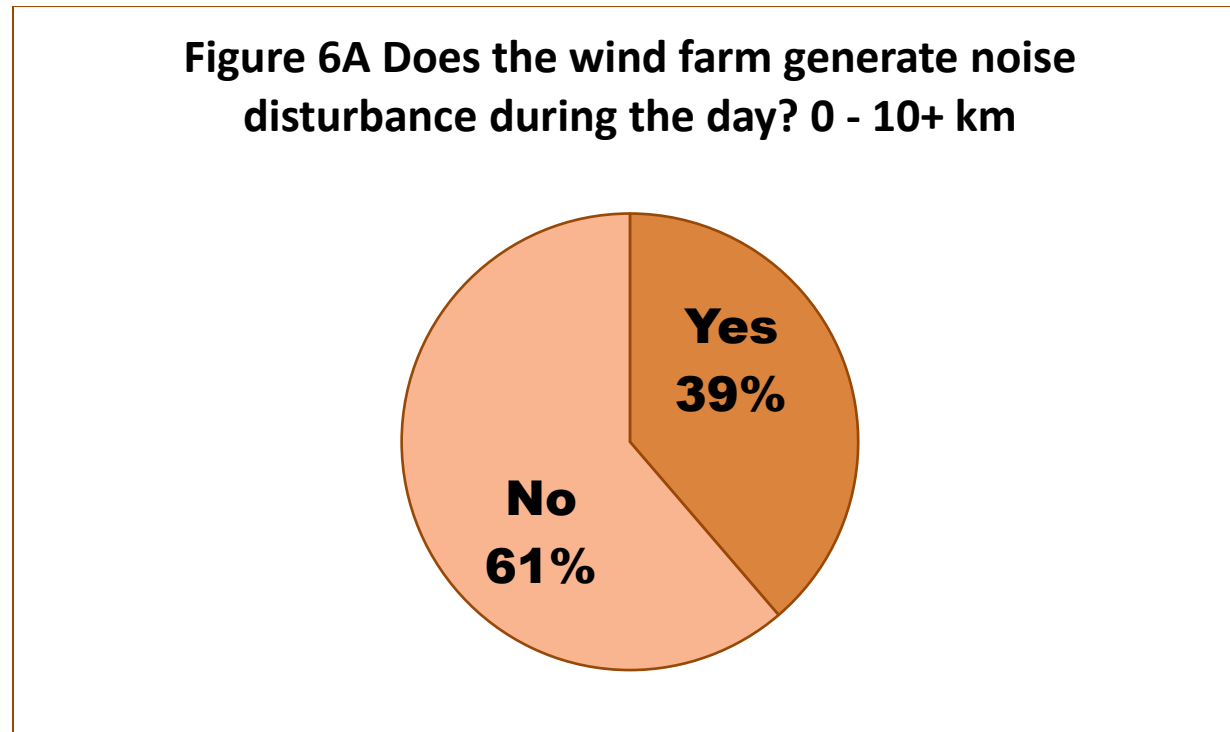
Daytime Noise disturbance, which in some cases varied with weather, was reported in 39% of households surveyed.

Night time noise disturbed 40 % of households and of those surveyed, 27 households or 29% of households surveyed reported sleep disturbances.

Upon examining the responses from within **5 km of the turbines** , 56 % of households were disturbed by day time noise, 56 % disturbed by night time noise and 39 % experienced sleep disturbance.

Question 6 (i) 0 – 10 + km from the wind farm

Does the wind farm generate noise disturbance during the day?

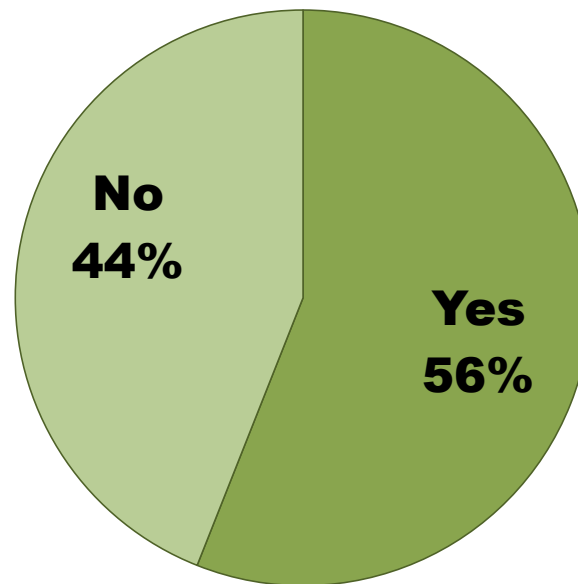


Total of 93 households	Yes 36 households	39%
	No 57 households	61%

Question 6 (ii) 0 – 5 km from the wind farm

Does the wind farm generate noise disturbance during the day?

Figure 6B. Does the wind farm generate noise disturbance during the day? 0 - 5 km

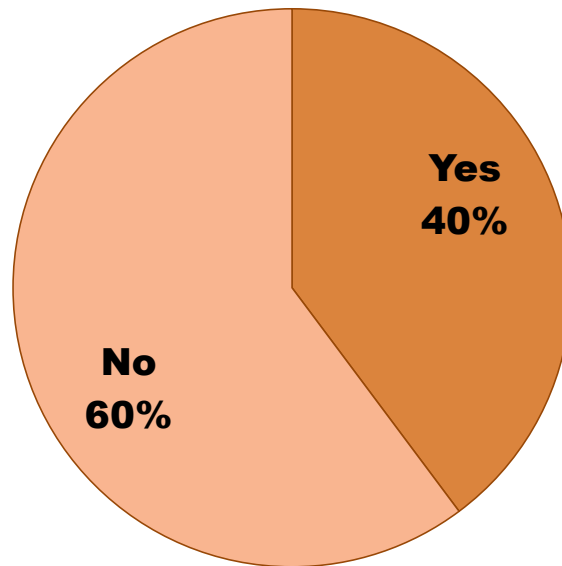


0 - 5 km away	Total of 41 households	Yes 23 households	56%
		No 18 households	44%

Question 7 (i) 0 – 10 + km from the wind farm

Does the wind farm generate noise disturbance during the night?

Figure 7A. Does the wind farm generate noise disturbance in the night? 0 - 10+ km

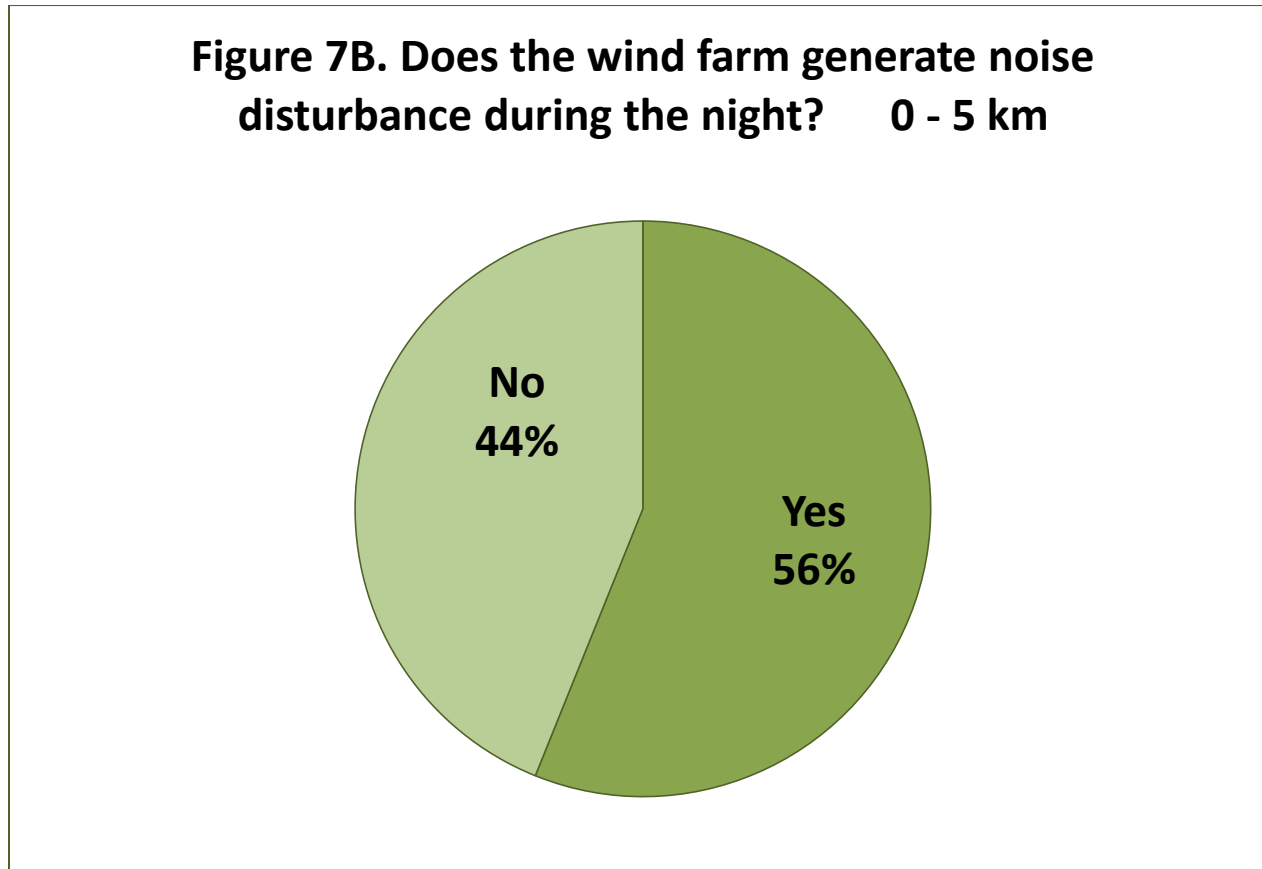


0 – 10 + km away Total of 93 households

Yes	37 households	40 %
No	56 households	60 %

Question 7 (ii) 0 – 5 km from the wind farm

Does the wind farm generate noise disturbance during the night?



0 – 5 km away	Total of 41 households	Yes 23 households	56 %
		No 18 households	44%

Questions 6 & 7 (iii) Does the Waterloo wind farm generate noise in the day? night?

How does it disturb your household during the day & night? 93 households

21 households described being disturbed by *vibration* type noise

11 households described being disturbed by *sounds like a vehicle or storm approaching*

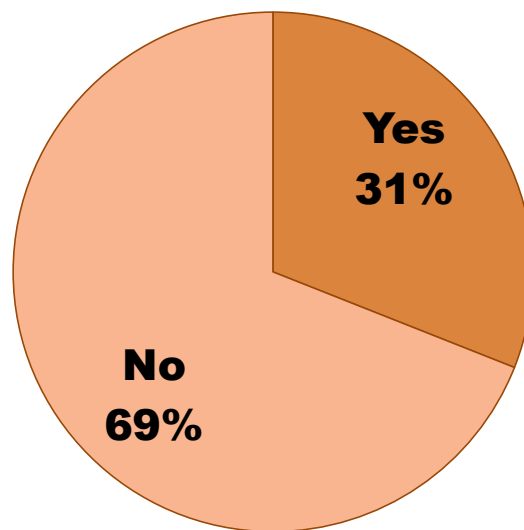
19 households described being annoyed by *droning, humming, throbbing, whining, drumming, thumping, grinding* type noises

5 households were annoyed by *vibration of their sheds/farm buildings/fences making it impossible or unpleasant or difficult to work there at times.*

Question 8 (i). 0 - 10 + km from the Waterloo wind farm

Are there any particular weather conditions that create more noise disturbance?

Figure 8 A. Are there any particular weather conditions that create more noise disturbance? 0 - 10+ km

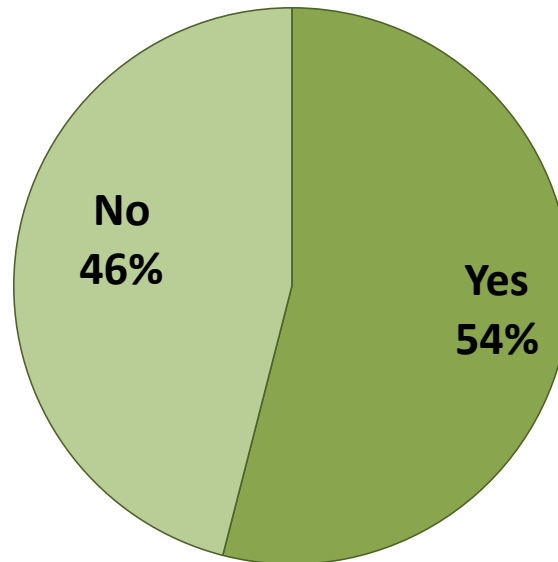


0 – 10 + km away	Total of 41 households	Yes	29 households	31 %
		No	64 households	69%

Question 8 (ii). 0 - 5 km from the Waterloo wind farm

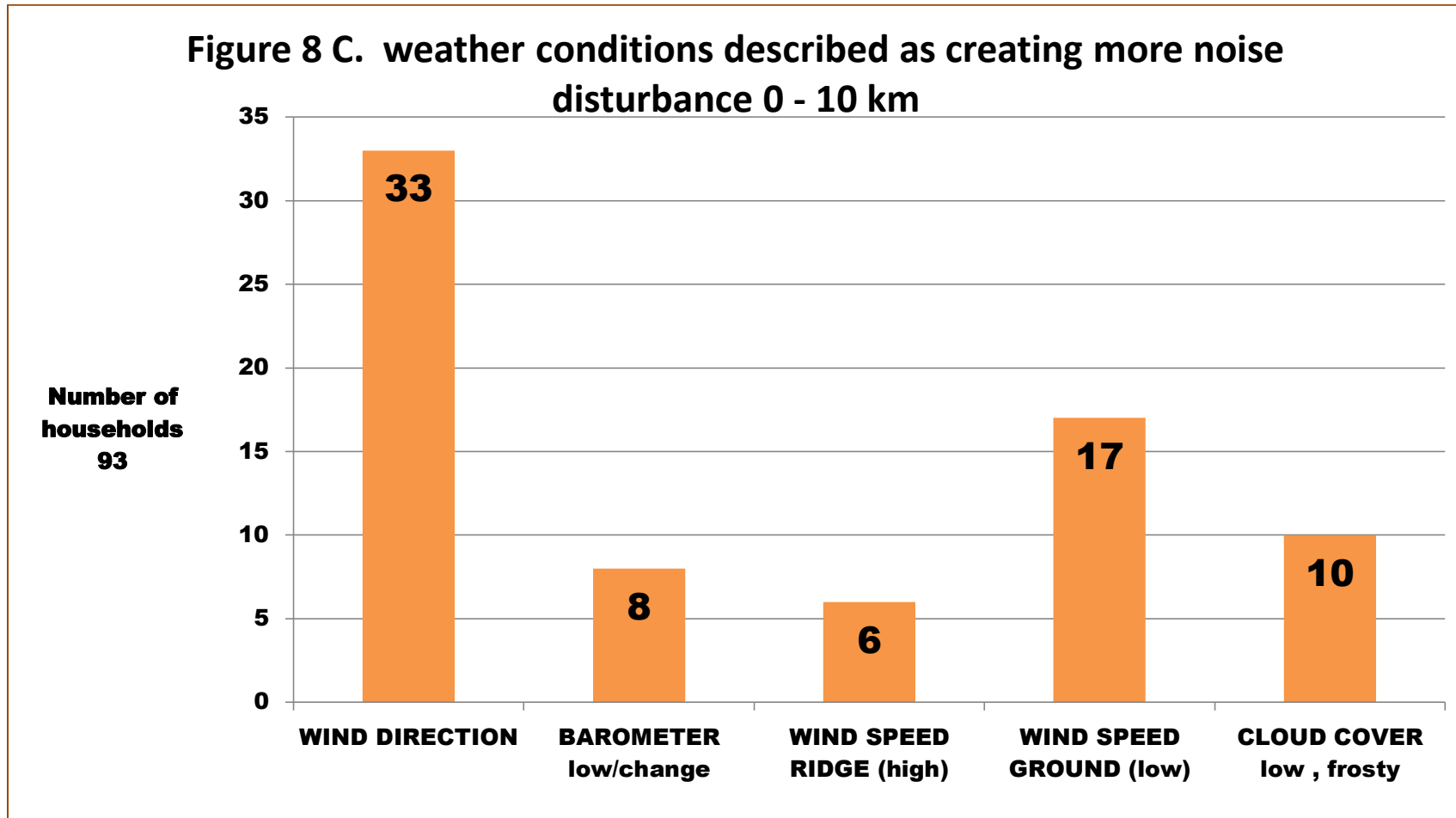
Are there any particular weather conditions that create more noise disturbance?

Figure 8B. Are there any particular weather conditions that create more noise disturbance? 0 - 5 km

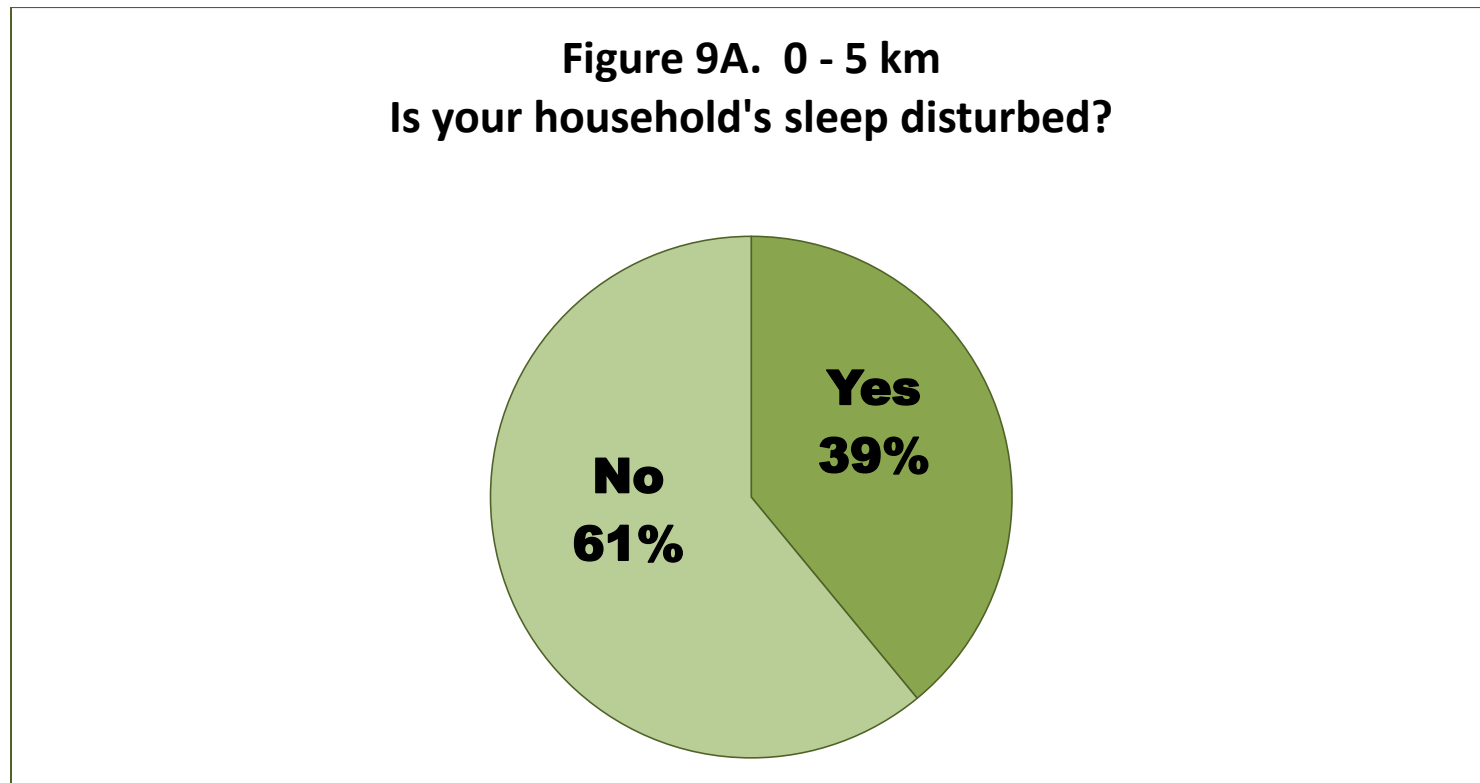


0 – 5 km away	Total of 41 households	Yes 22 households	54 %
		No 19 households	46%

Question 8 (iii) For households who answered *yes* to Question 8 - Are there any particular weather conditions that create more noise disturbance? What happens?



Question 9 (i) Is your household's sleep disturbed? 0 – 5 km

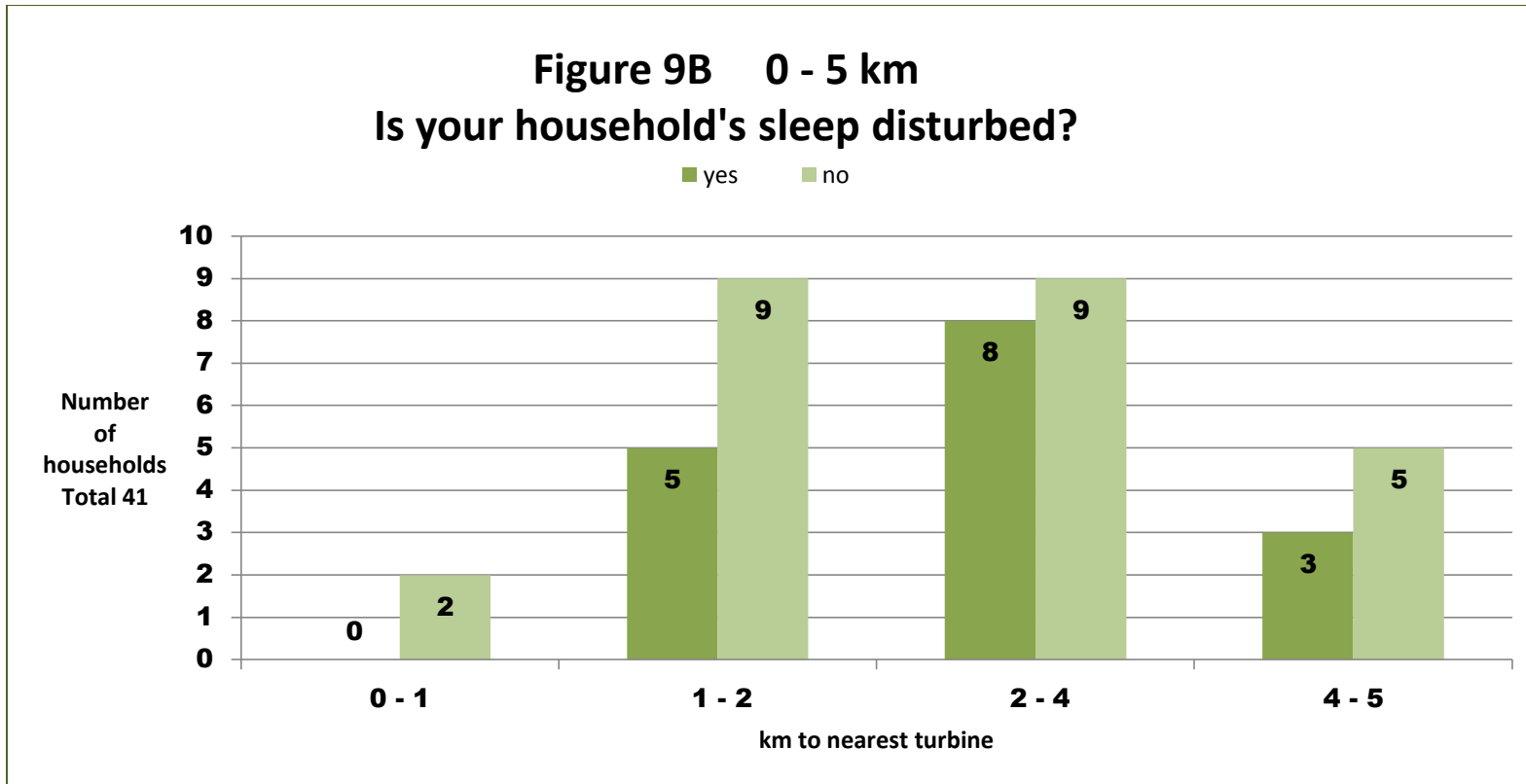


0 – 5 km away Total of 41 households Yes 16 (39%) No 25 (61%)

Question 9 (ii) How many nights per week is your sleep disturbed? 0 – 5 km

Difficult to quantify – varies with the weather 1 – 7 , up to 7 .

Question 9 (i) Is your household's sleep disturbed? 0 – 5 km

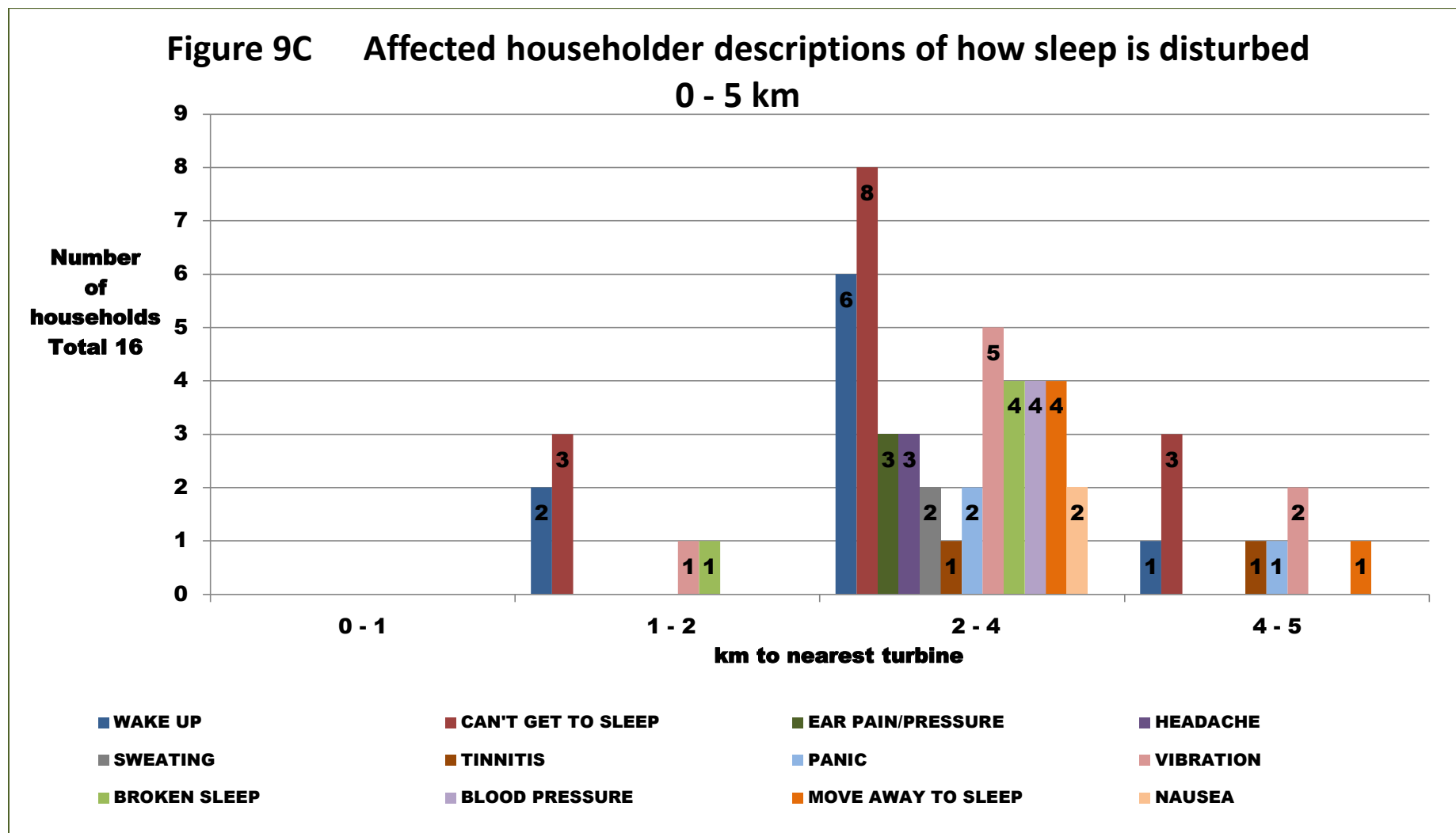


Total 41 Yes 16 (39%) No 25 (61%)

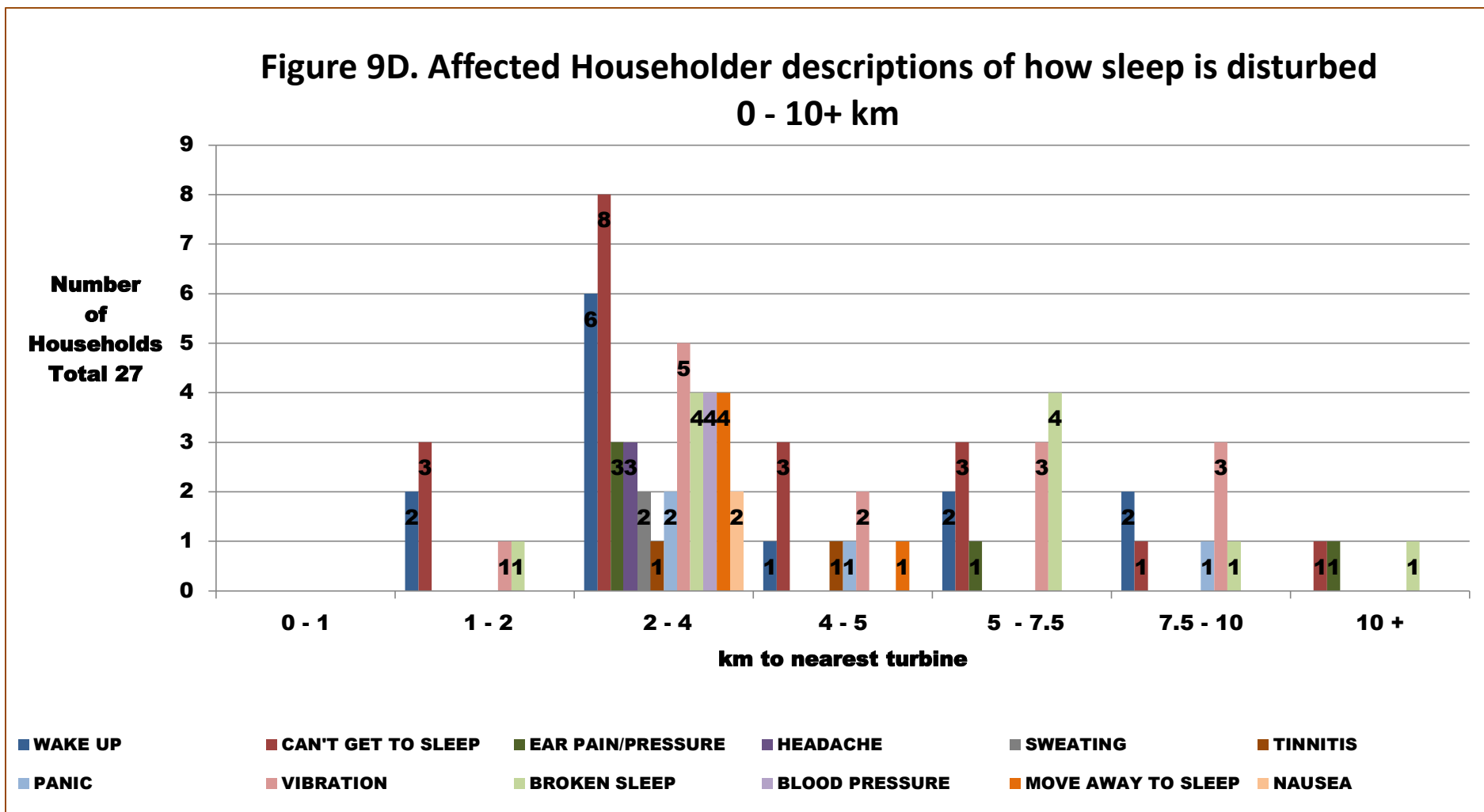
Question 9 (ii) How many nights per week is your sleep disturbed? 0 - 5 km

Difficult to quantify – varies with the weather 1 – 7 , many up to 7.

Question 9 (iii) How is your household disturbed? 0 – 5 km

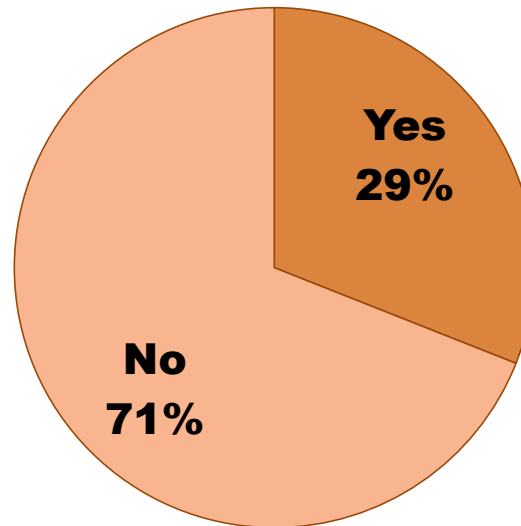


Question 9 (iii) How are your household disturbed? 0 – 10 km



Question 9 (i) Is your household's sleep disturbed? 0 – 10 km

Figure 9E Is your household's sleep disturbed? 0 - 10 km

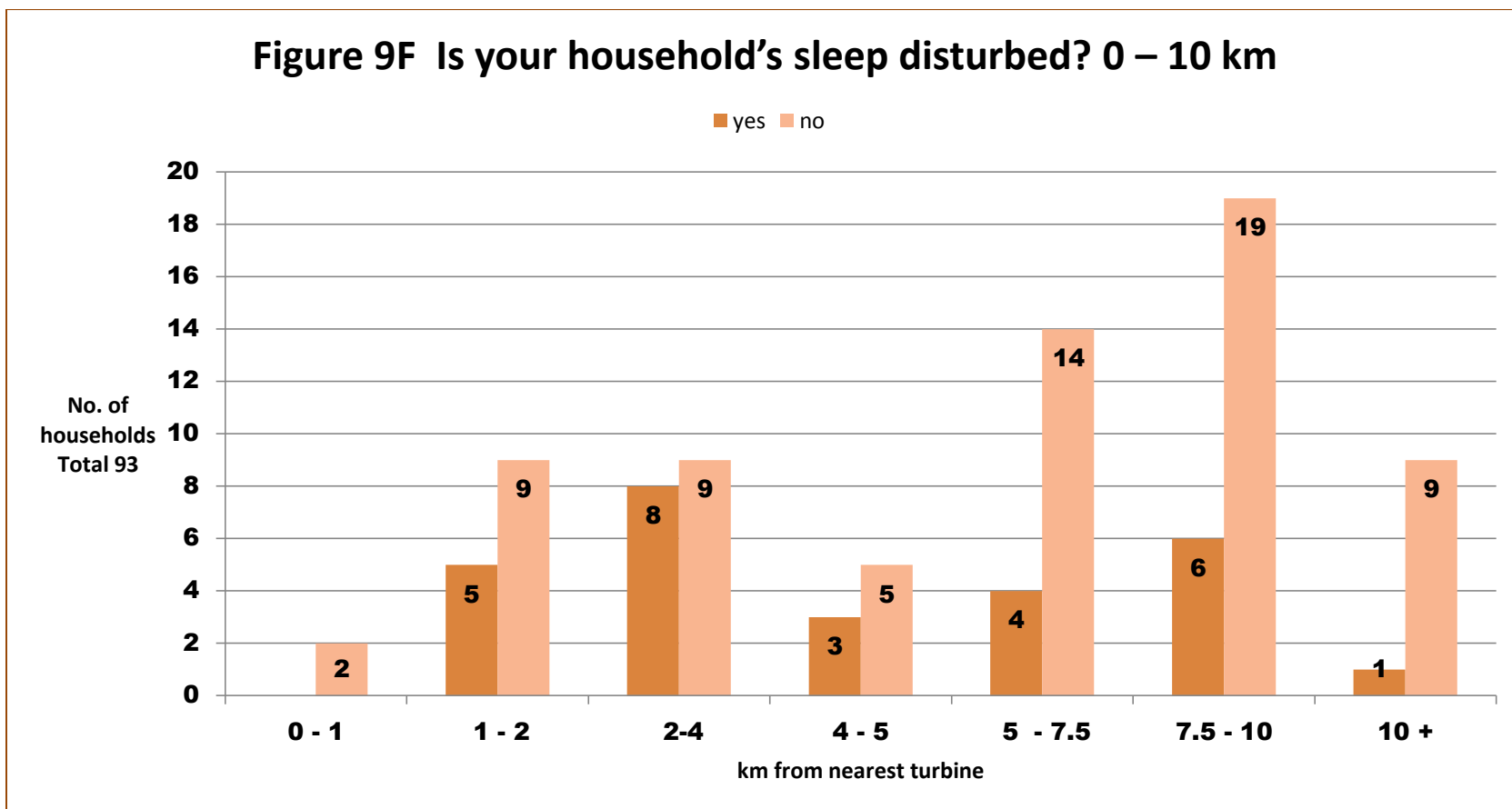


Total 93 Yes 27 (29%) No 66 (71%)

Question 9 (ii) How many nights per week is your sleep disturbed? 0 - 10 km

Difficult to quantify – varies with the weather 1 – 7 , many 3 - 7.

Question 9 (i) Is your household's sleep disturbed? 0 - 10 km



Total 93 Yes 27 (29%) No 66 (71%)

Question 9 (ii) How many nights per week is your sleep disturbed? 0 - 10 km

Difficult to quantify – varies with the weather 1 – 7 , many 3 – 7.