Worker SM, Nayak R, Meng Y, Marshall-Wheeler N. 2023. UC 4-H programs bolster youths' public speaking confidence. Calif Agr 77.
https://doi.org/10.3733/ca.2023a0003

Technical Appendix A – Survey Items

Demographic Information

- Age [Drop down box: 5-8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]
- Years in 4-H [Drop down box: 1 to 15]
- Gender [Options: Female, Male, Gender identity not listed, Prefer not to respond]
- Race/Ethnicity [select one or more options]

Communication Beliefs *(online survey randomized items)*

Please rate how many each of these statements is true or not true for you.

Item	Adapted from
1. I can use emotion to make my speech better 2. I can speak so that others can understand me 3. I can use creative ways to express my emotions 4. I can fully support my main ideas with evidence 5. I can deliver an organized speech	Warren (2011)
6. I can distinguish fact from opinion in communications 7. I can summarize information in a clear manner 8. I can state and define my viewpoint 9. I can express my ideas so that others can understand them 10. I can speak in a clear and concise manner	Karnes and Chauvin (2000)

Response Options

- Definitely true (5)
- Probably true (4)
- Neither true nor false (3)
- Probably false (2)
- Probably false (1)

2021 Survey Only

Public Speaking Experiences *(open text box)*

1. In 4-H, where have you practiced public speaking?
2. What 4-H experiences have helped you grow your public speaking skills?
3. Besides 4-H, where else do you practice public speaking?