

Title: Adaptation of Tulips to a Changing Climate Logbook

Name: Nina Lalji Grade: 5, Renert School

| DATE (day/month/year) | ACTION (what did you complete in the last week) | RESOURCES USED (websites, textbooks, mentorship, videos) | OTHER NOTES (goals for next week,) |
|---------------------------------|--|---|--|
| Jan, 2024 | Research Done: European air quality in the 2030s and 2050s: Amsterdam Tulip Museum Rising Sea Level Most Popular Valentines Flowers Co2 emissions (statista) Facts About Tulips Flowers, Tulips, Bulbs, Gardening Air Pollution Damage on Flowers Why do we Need Tulips? Netherlands - Mean Projections Expert Climate Change Knowledge Portal Response Mechanism of Plants to Drought Stress | https://www.sciencedirect.com/science/article/abs/pii/S1352231014003057 https://amsterdamtulipmuseum.com/blogs/tulip-facts/why-do-tulips-need-a-cold-period http://15146-group1-climatechange-sealevel.weebly.com/projections.html https://www.sendflowers.com/most-popular-valentines-day-flowers.htm https://www.statista.com/statistics/449784/co2-emissions-netherlands/ https://www.bloomingsecrets.com/featured/eight-fun-and-fascinating-facts-to-know-about-tulips https://tulipconservation.wordpress.com/2019/01/07/why-do-we-need-tulips/ https://climateknowledgeportal.worldbank.org/country/netherlands/climate-data-projections https://www.mdpi.com/2311-7524/7/3/50 | Met with Dr Miri Started Logbook Started Written Project |
| Feb, 2024 | Oxygen Reactive Species Tulip Time Climate Atlas of Canada Hydrological extremes in Amsterdam Phenotypic plasticity in development and evolution: facts and concepts 5 Drought-Tolerant Spring Flowers for | https://doi.org/10.1203/PDR.0b013e3181a9eafb https://www.tuliptime.com/ https://climateatlas.ca/climate-change-air-quality-and-public-health https://hydrologicalextremes.org/2023/02/01/dutch-drought-2022-a-perspective-by-the-ivm-drought-risk-research-group/ https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2817147/ | Met with Dr Miri Finished First Draft |

| | | | |
|-----------|--|---|--|
| | <p>Sunny, Dry Gardens Different parts of the planet warm more quickly than others. That doesn't mean climate change isn't happening. Plant Morphological, Physiological and Anatomical Adaptation to Flooding Stress and the Underlying Molecular Mechanisms Missouri Botanical Garden Tulips, chill and climate change Air quality What Are the Human Causes of Floods? Map of the Netherlands showing flood prone zones (blue shadings) Netherlands: natural gas production 2022</p> | <p>https://gowestgardener.com/blog/drought-tolerant-spring-flowers/ https://climatefeedback.org/different-parts-planet-warm-more-quickly-than-others-that-doesnt-mean-climate-change-not-happening/ https://www.mdpi.com/1422-0067/22/3/1088 https://www.missouribotanicalgarden.org/gardens-gardening/your-garden/help-for-the-home-gardener/advice-tips-resources/pests-and-problems/environmental/sulfur-dioxide https://www.missouribotanicalgarden.org/gardens-gardening/your-garden/help-for-the-home-gardener/advice-tips-resources/pests-and-problems/environmental/sulfur-dioxide http://www.livingononeacreorless.co.uk/tulips-chill-and-climate-change/ https://www.rivm.nl/en/climate-change-and-health/air-quality https://greentumble.com/what-are-the-human-causes-of-floods https://www.researchgate.net/figure/Map-of-the-Netherlands-showing-flood-prone-zones-blue-shadings-and-features-of-the-figure1_338288277 https://www.statista.com/statistics/703597/natural-gas-production-netherlands/</p> | |
| Mar, 2024 | <p>Aridity Actual Bulb Blog Greenhouse gas emission</p> | <p>https://climate-adapt.eea.europa.eu/en/metadata/indicators/aridity-actual https://www.bulbblog.com/tulip/ https://www.theglobaleconomy.com/Netherlands/greenhouse_gas_emission</p> | |