Greensborough

Challenge: A drought has occurred and the community is facing many challenges. Since the drought has brought consistently high temperatures, people are using their air conditioners more, which has contributed to blackouts (no power) and brownouts (reductions in power) in the community. Try to reduce the impacts of power outages and take care of populations vulnerable to heat.

Option A Lower power demand

Reduce power outages by using conservation practices and take care of disadvantaged people that may be affected by heat and power outages.

PUBLIC HEALTH

Option B Increase power supply

Make your community more resilient to power outages, bring additional power into the city, and take care of disadvantaged people that may still be affected by power outages and heat.

PUBLIC HEALTH

Health assessment

Health assessment

PUBLIC INFORMATION	AND WARNING
---------------------------	--------------------

Education on conservation practices

PLANNING AND COORDINATION

Efficiency tax breaks

TRANSPORTATION

Specialized spraying trucks

PUBLIC INFORMATION AND WARNING

Prepared public media messages

PLANNING AND COORDINATION

Additional resource supply

INFRASTRUCTURE

IT backup system



Newdale

Challenge: A drought has occurred and the community is facing many challenges. A popular river that runs through your city has very low flows. Stagnant water is the best environment for outbreaks of mosquitoes that might be infected with West Nile Virus. Reduce the risk of people being infected with West Nile Virus.

Option A Reduce the number of mosquitoes Reduce the risk of waterborne illnesses by lowering the number of mosquitoes.

MONITORING

Environmental health monitoring

Option B Reduce the interaction of people and mosquitoes

Reduce the risk of waterborne illnesses within the community by minimizing interaction of people and mosquitoes.

PUBLIC HEALTH

Health assessment



MONITORING

Information about

PUBLIC INFORMATION AND WARNING

Information signs

EMERGENCY SUPPLY AND RESPONSE

&

Partnership with local businesses



Bridgelyn

Challenge: During a drought, the demand for water is higher than usual. As the drought progresses, the water demand increases and leads to a pump failure in one of your municipal wells, which leads to a reduction of water supply to some communities. The pump repair will take 3 days. Ensure that people will have enough drinking water during those days.

Option A Decrease water demand

Implement conservation practices and decrease demand on other pumps in the city.

Option B Increase water supply

Bring more water into the area affected by pump failure.

MONITORING

Water use maps

MONITORING

Information about Groundwater & vulnerable maps populations



TRANSPORTATION

Water supply tanks

PLANNING AND COORDINATION

Agreement with neighboring communities

INFRASTRUCTURE

Deepen wells



EMERGENCY SUPPLY AND RESPONSE



FIRE!



Belcoast

Challenge: A drought has hit and your community is now especially susceptible to poor water quality and quantity, which may affect the tourism and also the diverse plant and animal species in the area. The majority of touristic activities occur on a reservoir and the river flowing out of it. How do you best conserve the natural resources of the area without threatening the incomes coming from tourism and recreation?

Option A Keep water in the reservoir

Prioritize keeping water in the reservoir and maintain the touristic attractions at the reservoir.

MONITORING

Environmental OR Water monitoring health monitoring

Option B Keep water in the stream

Order higher releases from the reservoir to keep higher stream-flows, which will maintain tourism at the stream.

INFRASTRUCTURE

Boat ramp extensions



PUBLIC INFORMATION AND WARNING

& Information signs

PLANNING AND COORDINATION

NATURAL RESOURCES/ENVIRONMENTAL HEALTH

activities	activities
EMERGENCY SUPPLY AND RESPONSE	EMERGENCY SUPPLY AND RESPONSE
Fish relocation	Loan or grant assistance
FIRE!	FIRE!
Prepared public media messages Helicopters	Additional resource supply & Air tanker

Silvergrass

Challenge: Your community is lucky to have multiple wells, but water is scarce during the drought. Pastures are quickly drying up, and the surrounding ranches can't sustain their large numbers of livestock. Hay production is minimal. Ensure that ranchers will be able to stay in business during and after the drought.

Option A Save the herd

Save your core breeding herd even if it means that your pastures will be recovering from drought longer and your expenses will be higher in following years.

MONITORING

Water monitoring

Option B Save the pasture

Alleviate pasture conditions by selling some of your core breeding herd animals. It might save some of your resources during drought, but you will need to restock part of your herd in following years.

NATURAL RESOURCES/ENVIRONMENTAL HEALTH

Best management practices



PUBLIC INFORMATION AND WARNING

Public educational workshop

PLANNING AND COORDINATION



TRANSPORTATION

Citizen volunteers



Skyview

Challenge: Your community is in the middle of a drought and the town's wells are threatened by increased nitrate levels that can affect the health of your citizens and potentially cause Blue Baby Syndrome. Ensure that the health of your citizens is not affected by contaminated water.

Option A Increase water supply

Bring more clean water in the community during the drought. Testing and potentially diluting the nitrate concentration with clean water will secure people's health.

INFRASTRUCTURE

Drill new wells

Option B Decrease nitrate concentrations

Prevent nitrates from entering the city's waterways and educate people on possible nitrate risks.

PUBLIC HEALTH

Health assessment





PUBLIC INFORMATION AND WARNING



FIRE!

