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91429



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Mana Tohu Mātauranga o Aotearoa New Zealand Qualifications Authority

Level 3 Geography 2024

91429 Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills.	Demonstrate in-depth understanding of a given environment(s) through selection and application of geographic concepts and skills.	Demonstrate comprehensive understanding of a given environment(s) through selection and application of geographic concepts and skills.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL parts of the question in this booklet.

Pull out Resource Booklet 91429R from the centre of this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–10 in the correct order and that none of these pages is blank.

Do not write in the margins (1/1/1/2). This area will be cut off when the booklet is marked.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL 04

INSTRUCTIONS

Read the resource booklet about wildfires in Canada. Integrate geographic concepts and supporting evidence from any of the resources into your answers.

You may use the space below to plan your responses.

PLANNING	

QUESTION

(a) Using evidence from the resources, describe the pattern (spatial or temporal) of Canadian wildfires. Home for Equado's notorious wildfires wildfires in Canada alone make the canada of the world's forests make up appoximately 9% of the world's forests. This is largely the boreal forests, consisting of black spruce which is extremely flammable. This, paired with the particular build of spruces (Resource B, paragraph 3) and the Figure 1, provides the perfect set up for wild fires.

Within Resource C, Both Resources C and both figures 2 and 3 show definite with five the adamand trend of cluster cluster centralised in the boreal forest continually throughout the years. lu figure 2 specifically, the large central cluster spans approximately 300km in width and approx -imately 900km in length to This is the a part of a linear pattern of dispersal of fires, placed between 140W and & app about 75W on the map (simultaneously within the boundaries of the borneal forest. Anothern cluster to which is overall present throughout all the years of wild fires. is located beyond 140W i've the to boreal forest region. This could also be ingly included in the linear pattern wentioned Prior. Lastly in the 60W region below SON, the small clustered is present throught 1986 2015 as we

(b) What are two different perspectives related to the wildfires, and why do people hold these perspectives?

Perspective 1: ludigenous Nations view fire and is a vital, a vital, and healthy part of maintaining a balanced landscape" (Resource D) they believe fire is crucial if controlled. The indigenous perspective is that fire overall should be used properly and wildfires specifically, do aid in the stimulating biodiversity and maintaining forest areas from becoming overgrown which would results in larger fires.

This perspective is fuelled by the belief that Zifire on land is not unatural, but the nature of landfires now are out of control and vary from how indigenous people have managed citizen, fires foin the past. At GA Mètis Nation Gitzen, Dane de Souza, said, "... But we've repared fires of choice with fires of chance."

Indigenous views believe that the restriction of indigenous and the wildfires courrently are interlinked.

They don't think it is fair due to the statistics of Indigenous deaths due to fires: "Indigenous people are more than 10 times more likely to die in a fire than non-Indigenous people" This is due to location of fires in remote areas where the people lack support to reduce risks.

many

recent disasters back to climate change being the core source. Justin Trudea, canadian people priminister in to 2016 beleives that wildfires and climate change to acheive the desired result.

Not only is there an environmental benefit in this perspective, but there is also an economic opportunity as Trudeau states "... touth to create those great jobs and opportunities..." referring to the act of fighting climate change.

Trudeu views the wildfires being a sign of how climate settle can permanently implement everything regardless of other efforts in other aspects of canadio's environment are made. He says "There are some politicians that still think you can have a plan for great jobs and growing the economy without having a plan to fight climate change." This perfectly sums up Trudeau's perspective on how to solve the growing issue of wildfires. Dealing with each wildfire individually, without sein seeing the problem as a big picture, will not solve the issue in the long run.

DCOPI Tairteconomic + in 6 Cuvir-s growth + ecosystem + air > figure 11

(c) Wildfires are an environmental disaster with significant environmental, economic, and social costs. Evaluate the consequences of wildfires for people and the environment.

Wildfires are notorious for only causing destruction and damage to both People and their environment. From burning 7,300 forest fires occuring each year over the last 25 years, canada is to for used to the constant consistent consequence brought from wild fires.

Environmentally, it is no surprise that many areas of Caueda greatly Suffer from bunch areas. However, wildfires to prove fairly beneficial to the growth and reproduction of certain tree species within a forest. In figure 9, we see that forest fires help with nutritents stored on the forest fires help with nutritents stored on the forest flood being released. The destruction of some trees pave way for the growth. "fires open up forest canopy to sunlight, resulting in new growth." smallwildfires can help prevent larger ones by essential -y eliminating accumulation of the legidead regetetion) on a small scale. Lastly, spenfic tree species are able to thrive reproductively from wildfires. Howeve

Wildfires do hovener, present a threat to canada's ecosystems. By killing specific species or impacting migratory patterns, fires cay have a train reaction flow on effect to not only tree species, but animal species too.

Some effects on the environment also greatly affect the livlihood of people and their communities. "Loss of forests reduces the number of carbon sinks" (figure 9 E, figure 9). Air pollution is one of the most prominent issues the people caused by wild -fires. On page 15 of Resource E, states how in June 2023, the pollution index ports of New York were 8 times above normal. Figure 11 backs this Statement and shows how extreme the wild fires effects are. As well as an obvious risk to health, the Air pollution wedget consequence for citezius econo - mically-also in some cases. Chris Riccardilpage us, paragraph 2) mentioned culting back hours which has as implication for each worker. The Many Caradiacis are ungjorly threatened by wildfies as in page 13 it states "more than 10%" of canadians are living in homes teat are increas - ingly threatened by wildfires." However the nisk for people in on-reserve First Nation Communities are nearly 3x vigher. The Indigenous do suffer more due to their livelihood being very dependent on the state of their land affected by fives also is land which sustains Land. Many live off their land great-round which adds another issue to the concept of evacuating for Indigenous people.

Overall, the cousequences for the environment flow into the consequences for people of Canada (majorly) Indegenous) Indigenous's dependence on land and the health of many majorly suffers from mildfires damage to the areas 01691 for and the dir.

Achievement

Subject: Geography

Standard: 91429

Total score: 04

Grade score	Marker commentary
A4	The response accurately describes the pattern of wildfires. Perspectives are described, but why these perspectives are held is only implied. Consequences are mainly descriptive, with no evaluation.