

## AP Environmental Science 2000 Student Samples

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- Species such as the dusky seaside sparrow, the passenger pigeon, and the woolly mammoth are extinct.Populations of other species have declined to the point where they are designated as threatened or endangered.
  - (a) Identify one threatened or endangered species and explain why its population has declined.
  - (b) Describe three characteristics of organisms that would make them particularly vulnerable to extinction.
  - (c) Present three arguments in favor of the maintenance of biodiversity.
  - (d) Name and describe one United States federal law or one international treaty that is intended to prevent the extinction of species.

a) Grant Panda 15 a species known by
the masses as endangered, Only few
hundred somain in the mount enous
forests of China. This animal suffers
from problems with horbitat less as
Charge settlement push further into
the Corests Panda also Caces problem
with its food source bamboo which
grous incycles causing of famine for
pandoes Also since so few of them are
left that they have a problem with.
attempts at moting the species fail
attampts at moting the species fail
5) Specialized feeding. Becomes a problem
when the area is disturbed. The only
source of food decreases causing die off
of ounderiduals
Complex mating - some animals require
a large number of individuals to participate
complex mating - some animals require olarge number of individuals to participate in the "rituals" when a number is

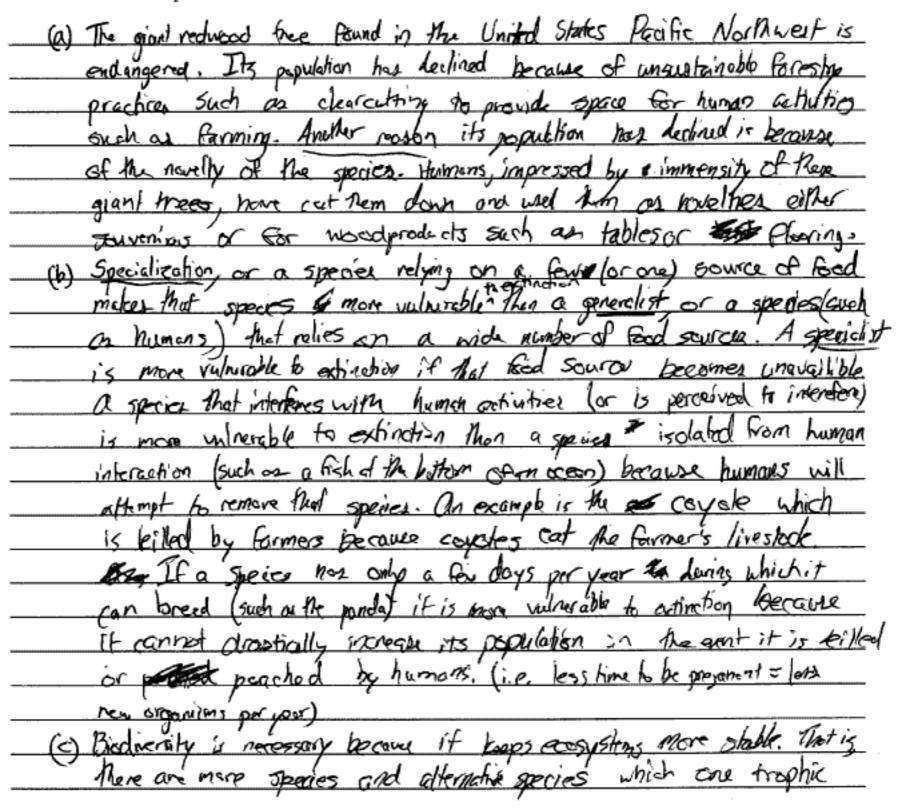
## ADDITIONAL PAGE FOR ANSWERING QUESTION 3

deminished reproduction will not occur
Saxoptiste Jute-ferino noth livestock. Coyotos and sirds are often killed because they frequently attack Coodcrops on which farmers' quality of life is based.
and hinds are rotten killed because they
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trequently attack tooccrops on which tarmers'
rundle of life is based
quality and see as some
1) Biodire-sity provides genetic material for future ovolutionary processes without to changing conditions will be susceptible to changing conditions without an obility to perform adaptive selection.
for future ovolutionary proceses without
A future promobile
f of a state of the state of th
to changing conditions willout an osility
to perform adaptive selection.
1500 diversity preserves generic unarion
useful to humans Many medicines that
are produced come from froncal areas
Many are species with potential cures are
Many are species a. th potential cures are still undiscovered Loss of diversity means loss of these species, means loss of potential
1 de de de la constant de la constan
1055 of these species, meons loss of potential
Enouledge
Biodiversity keeps the environment in
wheck one species prevents another
species from destroying the entire system
Awolves keep vabbite from dostroying grasslands
Tooloes week and closing grassway
and spedies prevent insects from destroying
the plants. Didn't work on human's though,
the plants. Didn't work on human's though,
Scodiversity can control the entire biosphere
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## ADDITIONAL PAGE FOR ANSWERING QUESTION 3

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## ADDITIONAL PAGE FOR ANSWERING QUESTION 3

forel our toly or for food. Second, it is othically racent and ecologically
cond humans should not interest with that right Third it is authorizely pleasing to humans when they are dile to view and enjoy a hoalthy exception is a divise consistent.
good humans & hould not interfere with that girls Third it is contration!
pleasing to humans when they are tale to increased air a horitor
exception a houlthy sound in a division mandia
(d) The Follower of Series It als of us a Cls Ot I american and a
(a) the entengers species for each a grant vis toperal againsts such as
The Fisht Whall He Hownsharon of the Elst to Ust and cotalogue
(d) The Enlangered Species At all of upon U.S. toleral agancies such as the Fish+ Wildliffe Administration or the EPA to list and cotalogue all appoint which are threstored by principles and governte politics such as the banning of hunting flose species to onsur they do not
- such as the banning of hunting fless species to ensur they do not
bone afinet.
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- The manatee is an endangered species. Its

  population has declined because selfish botters
  insist upon speeding in restricted vaters, and the
  blades of their boats kill the manatees. Also
  pollution of coastal mater affects the manatees,
  killing and meakening some.
  - One characteristic that puts an organism vertherable to extinction is if they only have one food source. Then if this species they depend on dies off, the organism can't survive, Another characteristic is if they have a low range of tolerance for changing conditions. Like if they can't handle a rapid change in the fit of an equatic system they would die off. Another characteristic is if they have few offspring during reproduction. K strategists are very vulnerable to extinction because of the few specialized traits they have such as having very few offspring.
    - Biodiversity is essential. The more biodiversity in an ecosystem the more productive it can be. If there are more species in an ecosystem you'll get more healthy species and an better overall envisonment.

ADDITIONAL PAGE FOR ANSWERING QUESTION 3
With more biodiversity there are more ecotones in which
more blomes are present making for a healthier
environment. And last, if you have more productsity
there will be less genetic resistance and alss
intertwinning of species, which will allow for
grecies to continue their way of life without
any extra threats.
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a big contributor to the conservation of many
a big contributor to the conservation of many
wildlife species. When an openies is deemed engrangered
there are lands put aside for this species and all
cares of it have to be taken into consideration
before human activity can proceed. This allows
endangered and threatened species to have the
opportunity to flourish once again.