Export of Sodium Bicarbonate to Nepal

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Where is Nepal Located?

Quick Facts:
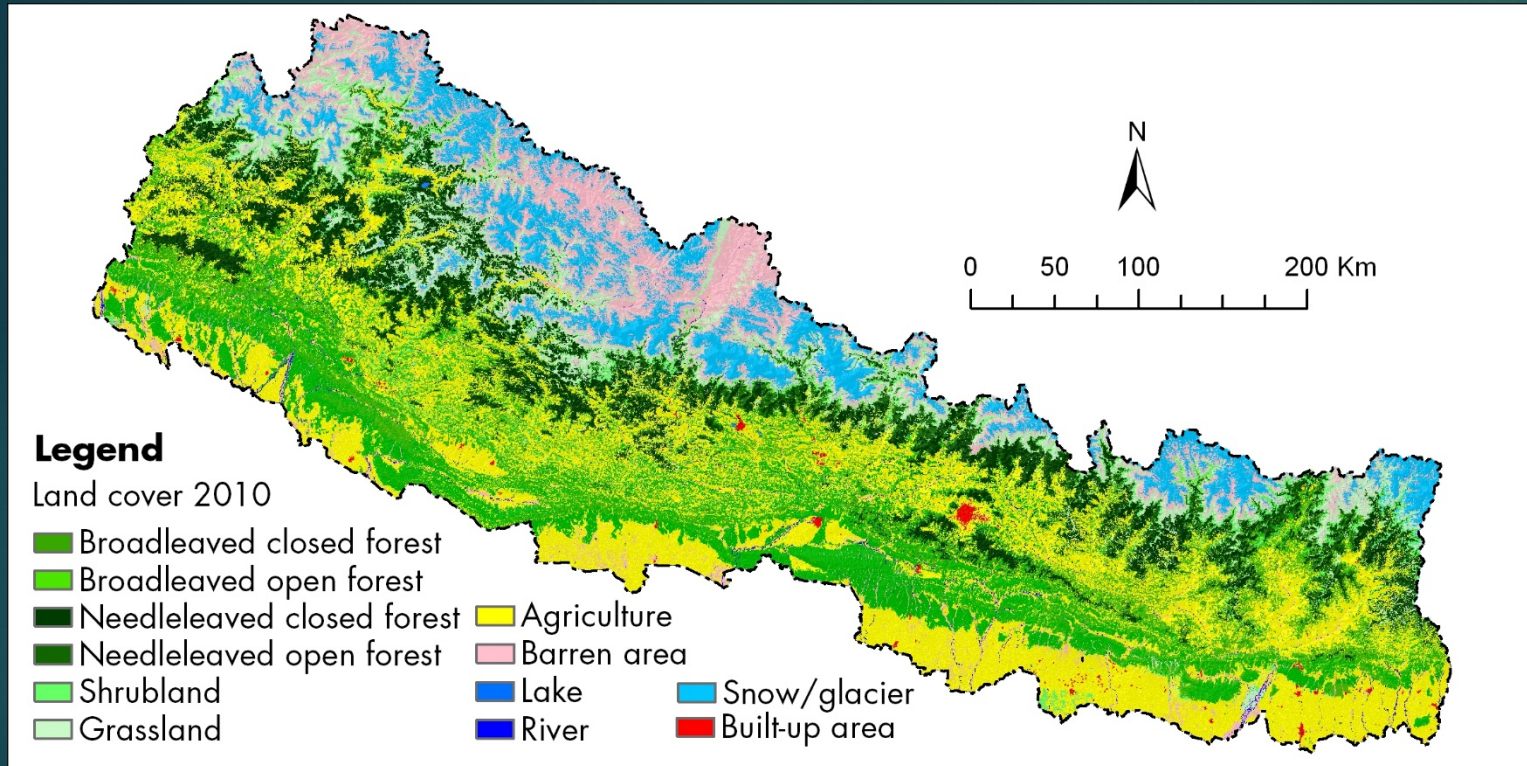- Population of 29 million
- Urban population 17%
- Rural population 83%
- Parliamentary Democracy with Prime Minister
- Food deficient country

Regions in Nepal

Legend

Land cover 2010
- Broadleaved closed forest
- Broadleaved open forest
- Needleleaved closed forest
- Needleleaved open forest
- Shrubland
- Grassland
- Agriculture
- Barren area
- Lake
- River
- Snow/glacier
- Built-up area

https://commons.wikimedia.org/wiki/File:Land_cover_map_of_Nepal_using_Landsat_30_m_(2010)_data.jpg

Three topological regions in Nepal:
- Mountain region
- Hill region or mid hills
- Plains region

Land use:
- 17% farmland
- 15% permanent pasture
- 42% woodland

https://www.cia.gov/library/publications/the-world-factbook/geos/print_np.html

Dairy Industry in Nepal

- 3.8 million buffalos

- 7 million cows

- Many small farms scattered across the hill and plain regions

- 1.4 million MT of milk produced per year

- 71.1% from buffalo

- 28.9% from cattle

- 160 765 MT of this milk is processed

http://thehimalayantimes.com/multimedia/photo-gallery/commercial-cow-farm-in-chitwan/

ftp://ftp.fao.org/TC/CPF/Country%20NMTPF/Nepal/thematic%20studies/Dairy.pdf

Sodium Bicarbonates effect in Cattle

- Acts as a buffer in the rumen
- When cow rations are suddenly changed the pH in the rumen changes
- High acid levels can damage the papillae lining of the stomach
- Result in an increase in cow health and milk production

Benefits to Nepal

- Increase health and milk production of cows
- Increase profit for farmer
- Will create jobs in transportation and sales
- Benefit company that distributes product

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http://www.merojob.com/hotjobs/nimbus/

Trivenifeed

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http://www.trivenifeed.com/

Benefits to Canada

- Increase in sodium bicarbonate distribution through pestell minerals
- Increase in trucking and management jobs
- Increase collaboration between Canada and Nepal

https://www.pestell.com/pet/about.php

http://www.anacan.org/en/news-events/events/anac-annual-convention/sponsors

Conclusion

▶ Export of sodium bicarbonate to Nepal will create jobs and increase profit for farmers

▶ Increase food production in Nepal

▶ Export from Canada is not feasible as China is the worlds largest producer of sodium bicarbonate

Further Information

- ftp://ftp.fao.org/TC/CPF/Country%20NMTPF/Nepal/thematic%20studies/Dairy.pdf "Dairy sector in Nepal"

- https://www.pestellminerals.com/ "Canadian Benefits"

- https://www.cia.gov/library/publications/the-world-factbook/geos/print_np.html "Nepal facts"