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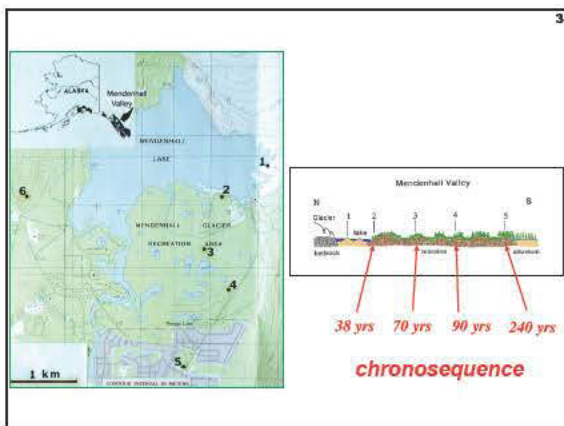
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*38-yr-old moraine*

- *alder*
- *cottonwood*

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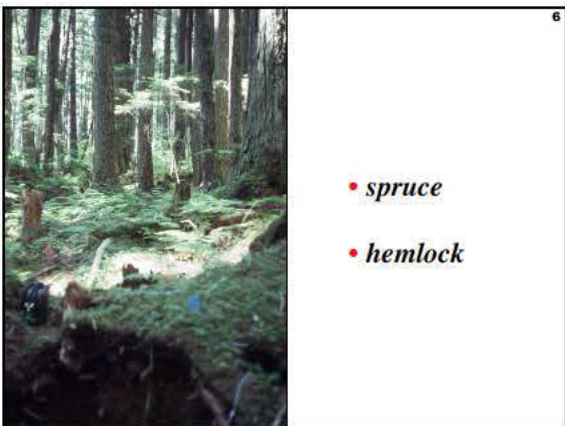
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- *spruce*
- *hemlock*

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Pedon	Age (yr)	Subgroup	Unique <sup>a</sup> horizons
1	10	Typic Cryospanent	—
2	38	Typic Cryothent	A
3,4	70,90	Typic Cryothents	Bs
5	240	Typic Haplocryod	Bts
6	> 240	Typic Haplocryod Andic Humocryod	Bh

<sup>a</sup> Horizons that occur in only one or two pedons in this chronosequence.  
<sup>b</sup> Common well drained "stony-star" soils in the area (Alexander et al., 1993).

(from Alexander and Burt, 1996. Geoderma)

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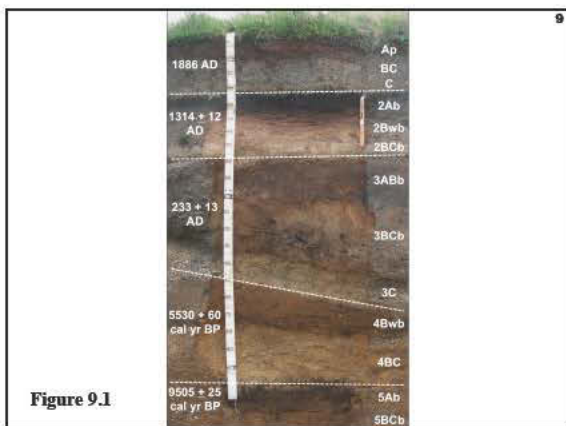
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**Table 3.12. Some estimates of rate of soil formation**

Soil formation or profile	Age since formation (yr)	Depth of soil (cm)	Rate of formation (cm/yr)	Reference
Arctic soil (Siberia) low volcanic ash	45	35	0.7	Mitchell and van Buren 1954
Remnants of a tropical clay soil and its terrace, following deforestation	33	15	0.5	Robert and Maguire 1969
A1 horizon of a heavy, spodosol formed in a sandbar near Corvallis, Oregon	137	35	0.1	Fouad 1978
A1 horizon of a Rhodosol (Slopes) and formed from weathered lava in Iowa	400	35	13.0	Sommer 1979
A1 horizon of a Rhodosol (Slopes) and in a bog in Wisconsin	3000	200	15.0	Adams and Rensen 1964
Formation of a Podzol (Canadian soil in sandy glacial till with 12 cm organic mat) in S.E.C.I. Victoria	1300	35	23.0	Topp and Orlund 1961
A1 horizon of a Grey-Brown Podzol (Slopes) soil formed from weathered lava in Wyoming	385	7	28.0	McIntosh and Hale 1964
Soils, including a natural horizon, on a Grey-Brown Podzol (Slopes) soil formed from weathered lava in Iowa	6000	100	40.0	McIntosh and Hale 1964
Developed A horizon (Slopes) in western Wisconsin	8000	100	80.0	Robinson 1950
A1 horizon of a Podzol (Slopes) soil formed from weathered lava in Iowa	2500	30	83.0	Parsons et al 1967
Horizon of a Podzol (Slopes) soil formed from weathered lava in Iowa	25000	300	97.0	Balke 1958
For B horizon of a tropical soil formed in Africa	75000	300	250.0	Kuhn 1968

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