



Some of the changes affecting one-half or more of the lower 3070 m of Carnation Creek, were a consequence of riparian clearcutting that initiated shortly after harvesting concluded. However, longer-term, basin-wide processes reflecting critical linkages between steep hillslopes and the stream channel network have overwhelmed the effects of all three riparian treatments.



These longer-term changes to the stream channel resulted from increased frequencies of landslides and debris torrents after logging. Over 80 small landslides and three major debris torrents have been observed, all in the logged portions of the watershed. The overall volume of landslide material has increased 12 fold after logging.