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| Legal requirement | <p>Irrigated land has been protected against waterlogging and salination by as many of the following measures as are necessary for each particular situation:</p> <ul style="list-style-type: none"> • Feeder channels, irrigation furrows and storage and catchment dams for irrigation water shall be made impermeable • Land has not been irrigated with water that is too high in salt content • Soil conservation works have been constructed to draw off excess surface and subsurface water so as to dispose of it, to prevent the waterlogging and salination of lower lying land. • Fertilisers that could contribute to salination have been avoided • Soil ameliorants have been applied to land showing signs of salination. | <p>Reasonable care must be taken to prevent:</p> <ul style="list-style-type: none"> • waterlogging of the soil; • nuisance conditions from flies, mosquitos, odour or secondary pollution; • waste entering a watercourse; • chemical or physical deterioration of the soil; • unreasonable chemical or physical deterioration of the soil; • contamination of run-off water or stormwater; • unauthorised use of the wastewater by members of the public; or • people being exposed to the mist originating from the irrigation. <p>Waterlogging and salination of irrigated land</p> <p>Protection of irrigated land from waterlogging and salination is regulated in terms of Regulations published under the Conservation of Agricultural Resources Act 43 of 1983.</p> <p>These measures state that:</p> <p>(a) Feeder channels, irrigation furrows and storage and catchment dams for irrigation water shall be made impermeable.</p> <p>(b) The land concerned shall not be irrigated excessively or with water with too high a salt content.</p> <p>(c) A suitable soil conservation work shall be constructed and thereafter be maintained in order to draw off excess surface and subterranean water and to dispose thereof safely to prevent the waterlogging and salination of lower lying land.</p> <p>(d) Fertilizer which could contribute towards salination shall not be applied.</p> <p>(e) If the land concerned shows signs of salination, a suitable soil ameliorant shall be applied in order to improve the production potential of that land.</p> <p>Guidelines for acceptable norms for conveyance losses can be found from the following WRC report:</p> <p>Reinders, F, van der Stoep, I, Lecler, N, Greaves, K, Vahrmeijer, J, Benade, N, du Plessis, F, van Heerden, P, Steyn, J, Grove, B, Jumman, A and Ascough, G. 2010. <i>Standard and guidelines for improved efficiency of water use from dam wall release to root zone application</i>. Report No. TT 466/10. Water Research Commission, Pretoria, RSA.</p> |
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