عنوان فارسی مقاله:
اثرات تغییر اقلیم بر شاخص‌های عملکرد مخازن آب در تامین آب بخش کشاورزی

عنوان انگلیسی مقاله:
Climate Change Impact on Reservoir Performance Indexes in Agricultural Water Supply

توجه!
این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامپآک با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک نمایید.
Optimization of Reservoir Performance under Climate Change Scenarios using LINGO

For the optimal operation of the reservoir to supply water, the objective function was considered. Optimal amounts of water release and volume of reservoir storage were calculated by using LINGO for three scenarios. The results are presented in Fig. 11. Because of an increase in demand of 16% and a decrease in inflow volume of 0.7%, the amount of allocation under optimal reservoir management conditions was less than the demand. Similar calculations for 70 and 90% of demand were performed (Fig. 11).

As a result, assuming a constant area under cultivation and constant cropping pattern, less irrigation (70% of supply) should be considered for the network under climate change. Other adaptive strategies, such as changes in the levels of cultivation, changes in cropping patterns, greater use of products with lower water requirements, and in-creases in irrigation efficiency, should be considered.