

DETERMINATION OF THE VULNERABILITY'S GRADE OF THE AQUIFER USING REMOTE SENSING'S METHODS AND GIS IN THE CALDAS NOVAS.

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The present paper shows how the vulnerability's grade of the freatic aquifer of the area of Caldas Novas was determined using a satellite image Landsat TM from 14-10-98, which was georeferenced and classified to show the use and soil's occupation. Later, these results were vectorized and at the same time was created a georeferenced database. Starting from these data, was built a correlation matrix containing parameters as geology, litology, soil's thickness, hidrography, vegetations's type and others, to the which it was attributed values. Starting from the results produced by the correlation of these mentioned parameters, a map was produced showing the areas with low, medium, high and very high vulnerability's grade of the aquifer.