

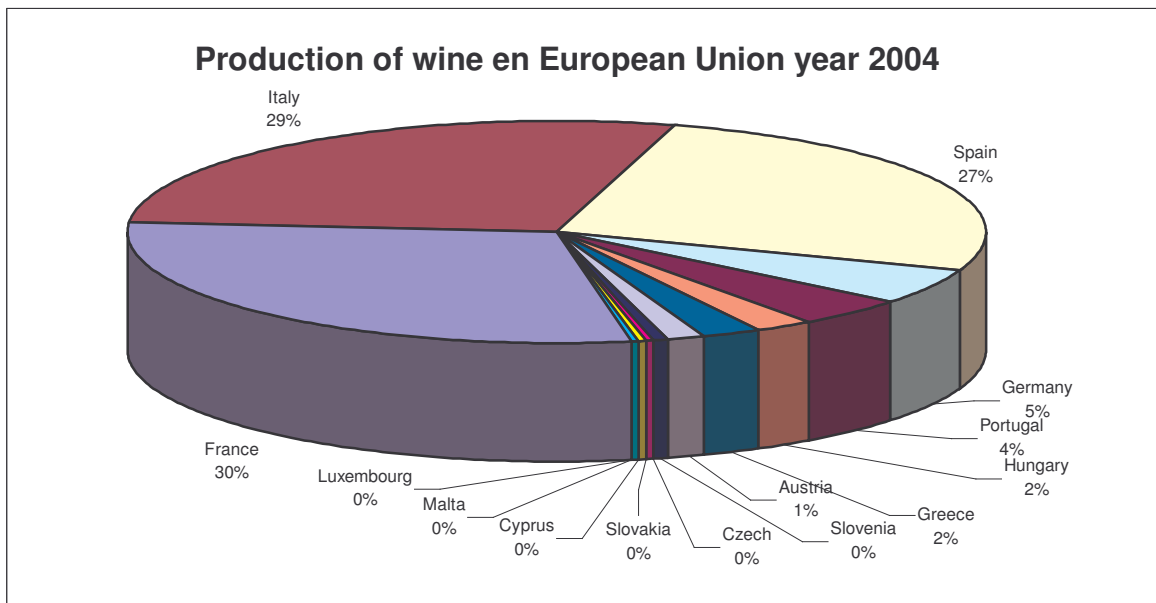
RESULTS TASK 1

ANALYSIS OF THE GEOGRAPHICAL DISTRIBUTION OF WINE BY-PRODUCTS AND THEIR CHARACTERISTICS

Europe accounts for a 66% of the wine production on the world market.

The most important European wine-producing countries are France (30%) Italy (29%) and Spain (27%)

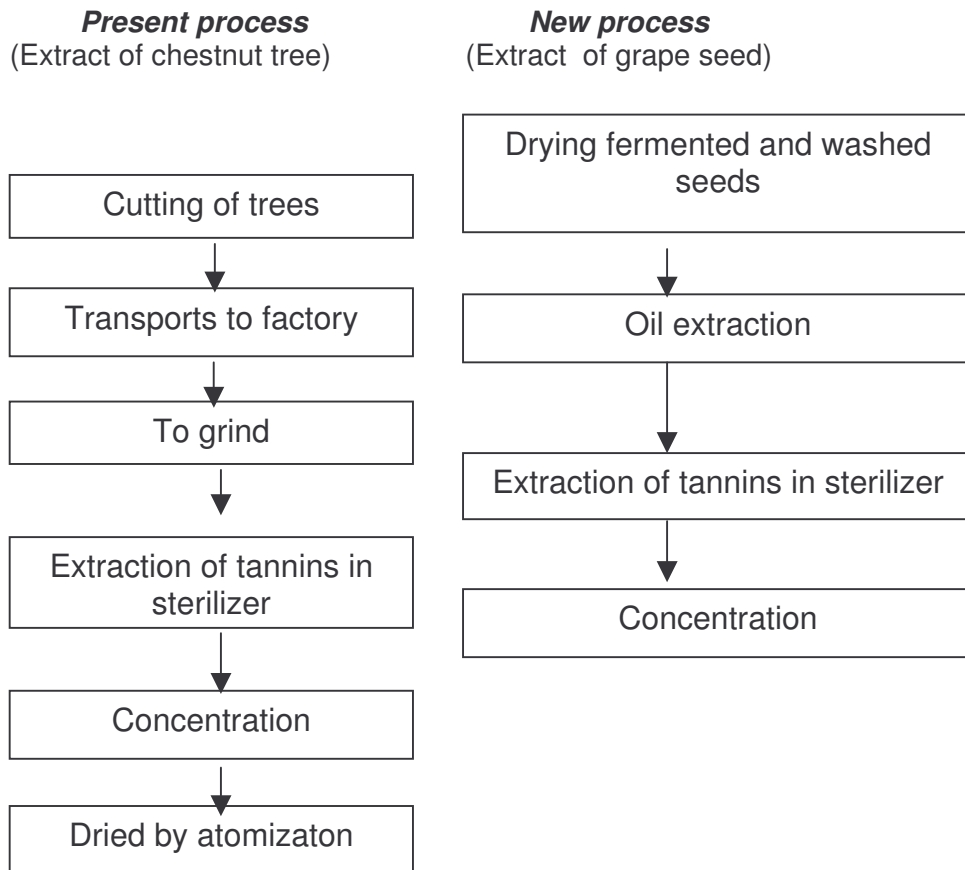
Production of wine in European Union 2004



From every 100 kg of grapes, between 1'22kg and 2'18kg of seed flour can be obtained. As tannins are extracted from this flour, the maximum amount of seed flour collection in Europe would range from 287 to 514 million of kg/year.

Comparison between the process that is followed nowadays for the obtaining of extract of chestnut tree and the new process for the tannin extraction of the grape seed.

FLOW CHART OF THE MANUFACTURE OF TANNIN EXTRACTS



Different origin grape wastes from Spain and Italy, and different parts of waste (seed, peel and stalk) were characterised for grease and tannin content.

Seeds and peels, have proved to be the optimal fraction, taking their tannin content mainly into account, with results ranging from 6 to 16% on dry sample.