

Aqueous pesticide concentrates containing a pesticide (such as an auxinic herbicide), a surfactant, and a naturally or petroleum derived oil and the use of aqueous pesticide spray mixtures incorporating such concentrates are described. The aqueous pesticide concentrates described herein include from 5 to 90 weight percent of a pesticide (such as an auxinic herbicide), from 0.1 to 20 weight percent of a surfactant, and from 0.1 to 20 weight percent of a naturally or petroleum derived oil. The aqueous pesticide concentrates are stable oil-in-water emulsions that form a stable emulsion upon dilution into a spray solution.