



Marigold's Uses and Benefits

(*Manukumar YD and Tanuja Matawale)

Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh

*Corresponding Author's email: manukumaryd22@gmail.com

Marigolds are native to Mexico, highly popular among growers for their elegant flowers and long blooming period, and good self-life. Although they are appreciated for their beauty and their surprising benefits for the garden.

Uses

- Marigolds play an important role in landscaping. Marigold varieties are used for herbaceous border planting and French marigold varieties for hedges, rockery, hanging baskets, and window boxes.
- The marigold flower is the richest source of carotenoid lutein and they are used as a food color, animal feed, and poultry farms.
- Marigold roots and stems emit a chemical that will help to support the population of root-knot nematodes. where French marigolds are most effective against destructive pests.
- Marigolds are recorded as food plants for Lepidoptera caterpillars and nectar sources for other butterflies and bumblebees.
- Marigold flower attracts ladybugs, parasitic wasps, and other beneficial insects to protect your plants from harmful pests. the flowers attract bees and other important pollinators for pollination
- Marigold plant also acts as a companion crop to protect cruciferous plants from cabbageworms, and tomato plants from hornworms. Marigold is a good companion when it is planted near beans, cucumber, and Brinjal.
- Marigold has been used as a source of essential oil for perfume, and flavourant in the food and tobacco industries.
- Marigold is beneficial as an antiseptic and excellent for wound healing, according to Ayurvedic and Unani medicine the flower and leaves have anti-inflammatory, antipyretic, and antimicrobial, effects. the leaf extracts are used for curing Fever, jaundice, stomach ulcers, liver problems and to stop bleeding

In Textile Industry

The carotenoids and flavonoids present in marigolds are extracted and used as natural colorants in fabrics. With the worldwide concern over the use of environment-friendly and decaying materials, there is more demand for natural dye in the textile industries. In contrast, natural dyes are environmentally friendly and exhibit better biodegradability than syntactic dyes. The main reason for extracting dye from marigold plants is to avoid environmental pollution

In Food industry

The marigold flowers are the richest source of xanthophyll and their extracts are used as an additive in the food industry. The dried flower petals are also added to tea to make it more attractive and the natural dye gives the most appealing yellow chees and butter.

In Veterinary sector

African marigolds are commercially cultivated for their natural source of lutein and are widely used in the poultry industry as food color ingredients to increase the color of egg yolks, and yellow chicken skin and are involved in the growth of metabolism and fertility.

In Pharmaceutical Industry

Marigold tea relieves stomach pains and assists in healing ulcers in the stomach. Marigold extract is used as a painkiller and treatment for bacterial ear infections. Marigold flowers contain flavonoids that have been shown to have cytotoxic, anti-inflammatory, and inhibitory properties against cells that cause colon cancer, leukemia, and melanoma. Among the many therapeutic properties of marigolds are their antibacterial, antimicrobial, hepatoprotective, insecticidal, mosquitocidal, nematocidal, wound-healing, antioxidant, and analgesic larvicidal properties. Nematode *Tagetes* species are also studied in sub-acute toxicity investigations. The marigold oil is used in the perfumery and cosmetics industry and it is also used as antiseptic. Root extract is used as a laxative.