

# **Exploration for fruits and nuts in Northern Pakistan**

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# **National Plant Germplasm System**

- **Storage of plant genetic diversity**
  - **Clonal Repositories e.g Corvallis**
  - **Seed storage, e.g. Fort Collins**
- **GRIN, a data bank for all facilities**
- **Plant Exploration Funding**





Tbilisi

Yerevan

Baku

Krasnovodsk

Tabriz

Baghdād

Tehrān

IRAN

Esfahān

(PERSIA)

Shirāz

Bandar e Bushahr

Zāhedān

Khiva

Tashkent

Bukhara

Ashkhabad

Mary

Mashhad

Herāt

Kabul

AFGHANISTAN

Peshawar

Kandahār

Quetta

PAKISTAN

Gwadar

Karachi

G. of Oman

Muscat

Ozero Balkhash

Syr Darya

Fokand

Alma Ata

Yining

Ürümqi

XINJIANG

UYGUR

CHINESE

Kashi

Shache

KASHMIR

Lahore

Simla

XIZANG (TIBET)

Lhasa

NEPAL

Delhi

Agra

Kanpur

Allahabad

Lucknow

Varanasi

INDIA

BHU.

ahmapu

Ganga

CHANG



# **Central Asian center of diversity for major fruit and nut crops**

**Apple**

**Almond**

**Apricot**

**Walnut**

**Cherry plum**

**Pistachio**

**Fig**

**vinifera grape**

**Pomegranate**



# **Near Eastern center of diversity (Transcaucasia, E. Turkey, Iran) for major fruit and nut crops**

**Apple**

**European pear**

**Sweet cherry**

**Quince**

**Cherry plum**

**Fig**

**Pomegranate**

**Walnut**

**Hazelnut**

**Chestnut**

**Pistachio**

**vinifera grape**

# **Chinese Center of diversity for major fruit/nut crops**

**Peach**

**Citrus**

**Apricot**

**Litchi**

**Asian plum**

**Chinese chestnut**

**Asian pear**

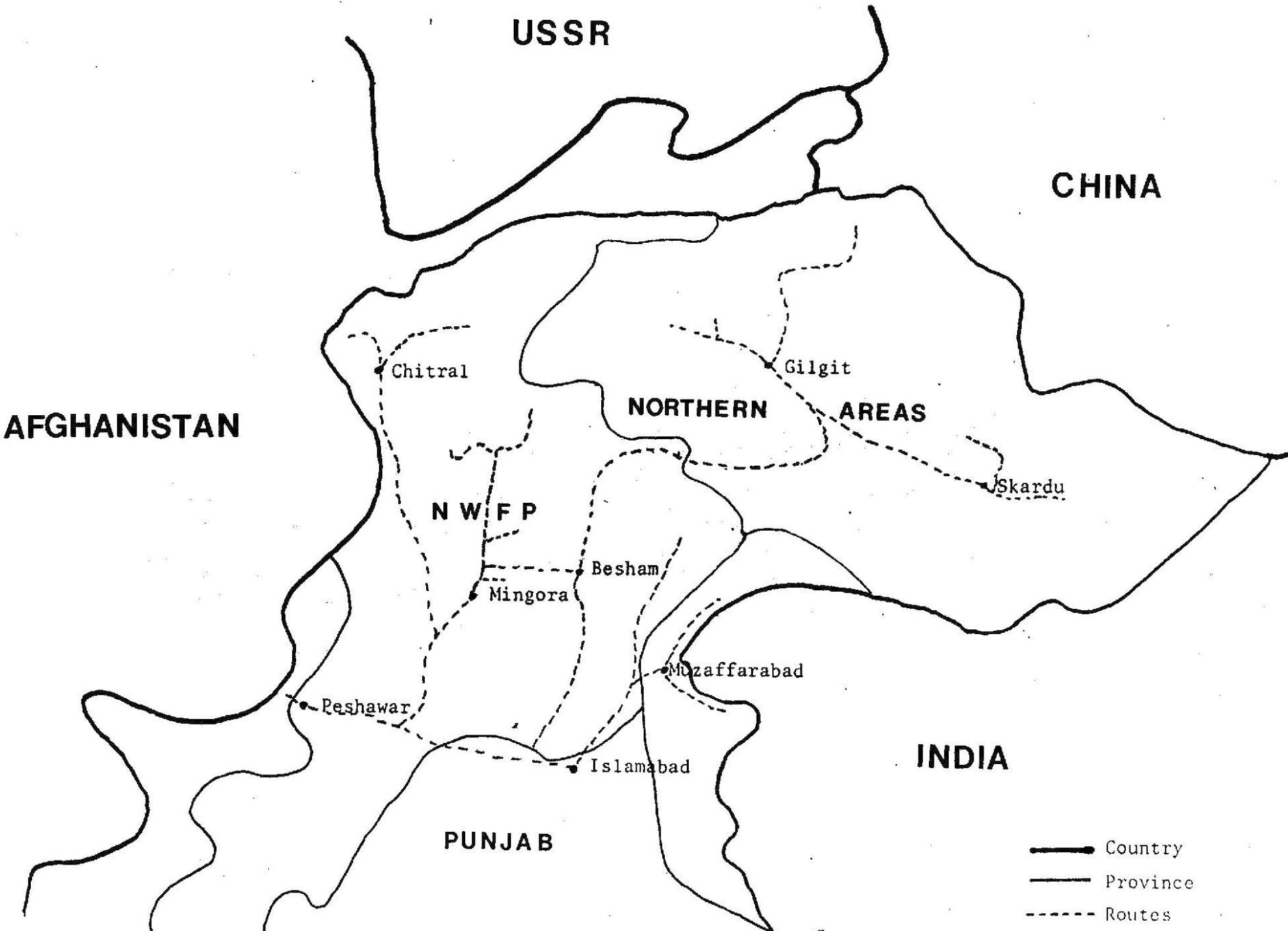
**Kiwi**

**Persimmon**

# Fruits and Nuts Collected in No. Pakistan

- 52 species, including cultivated and wild relatives
  - »Seeds 229
  - »Scions 273





USSR

CHINA

AFGHANISTAN

NORTHERN AREAS

NWFP

INDIA

PUNJAB

Chitral

Gilgit

Skardu

Besham

Mingora

Muzaffarabad

Peshawar

Islamabad

- Country
- Province
- Routes



# PLANT GENETIC RESOURCES































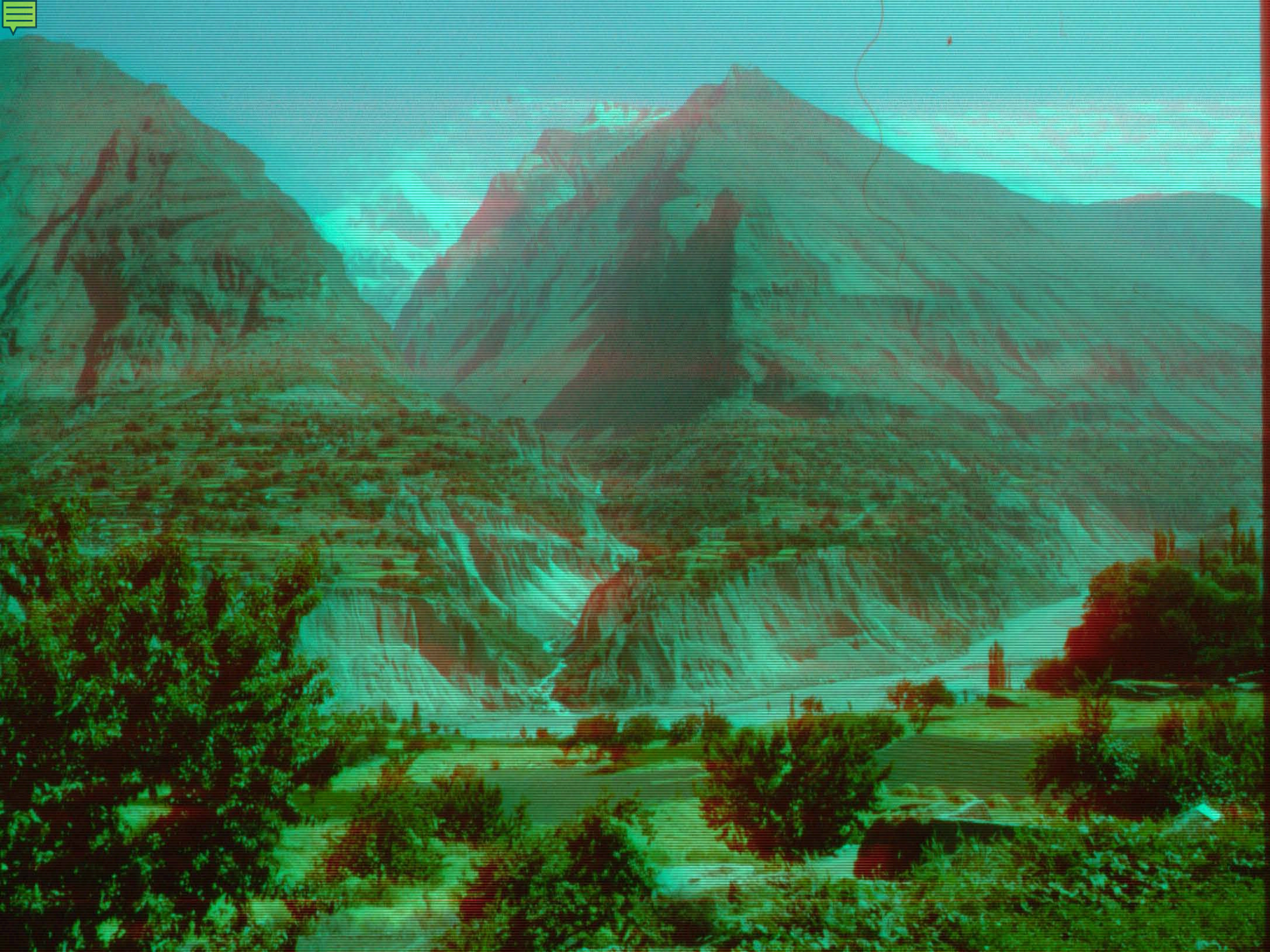
































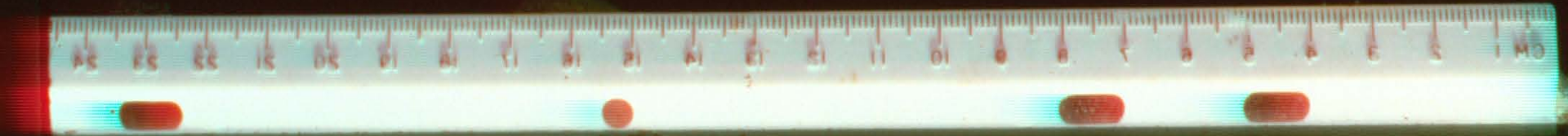
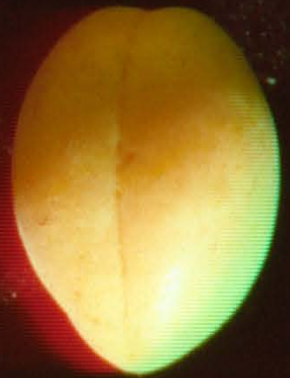
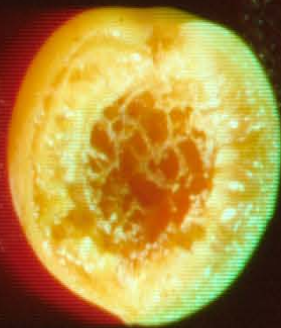
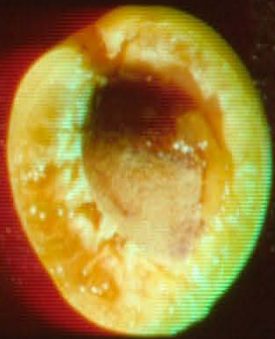
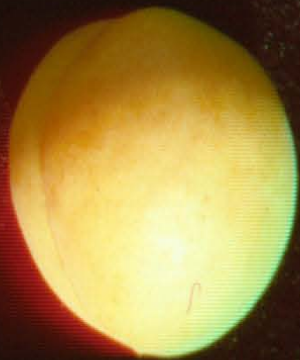


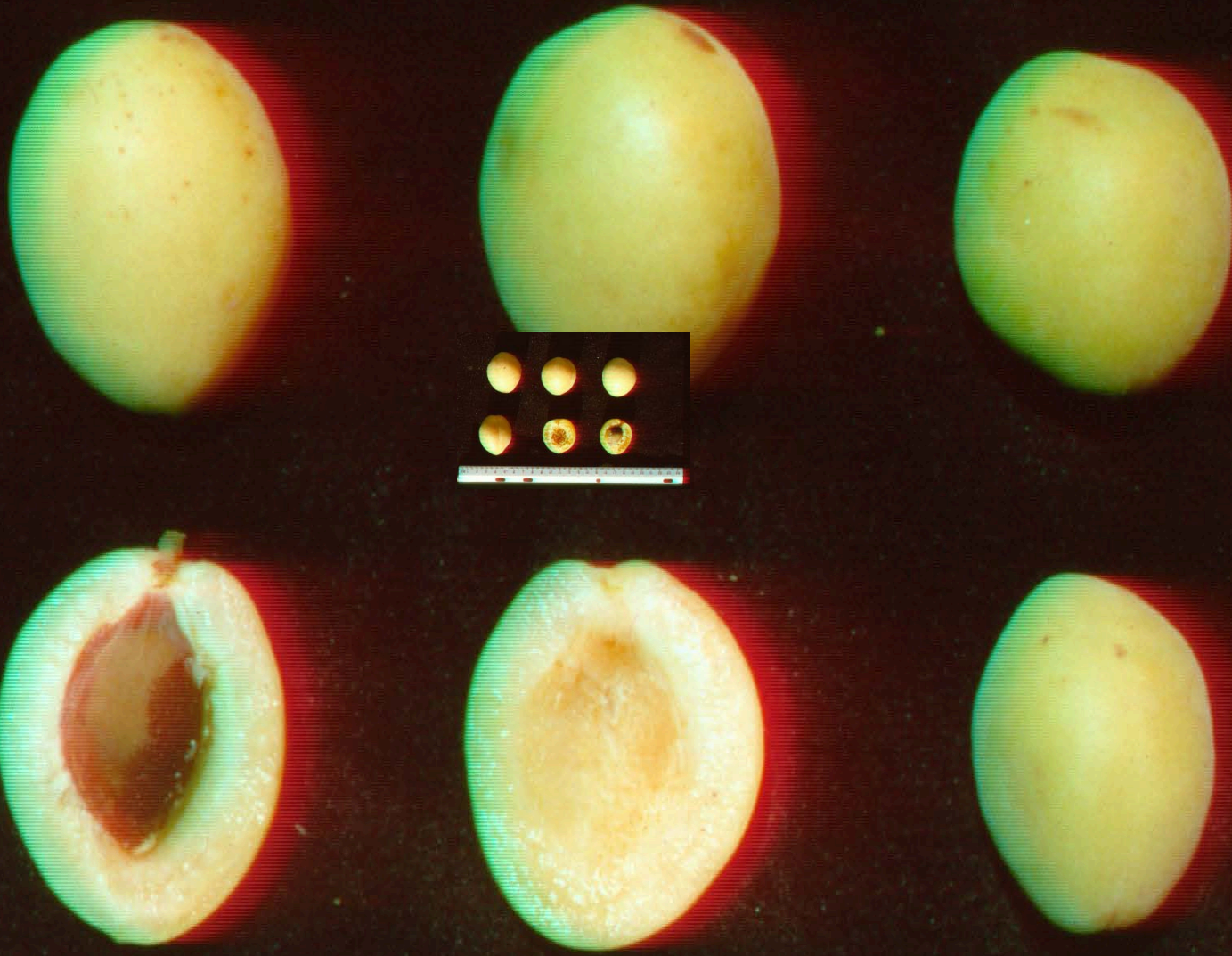
























































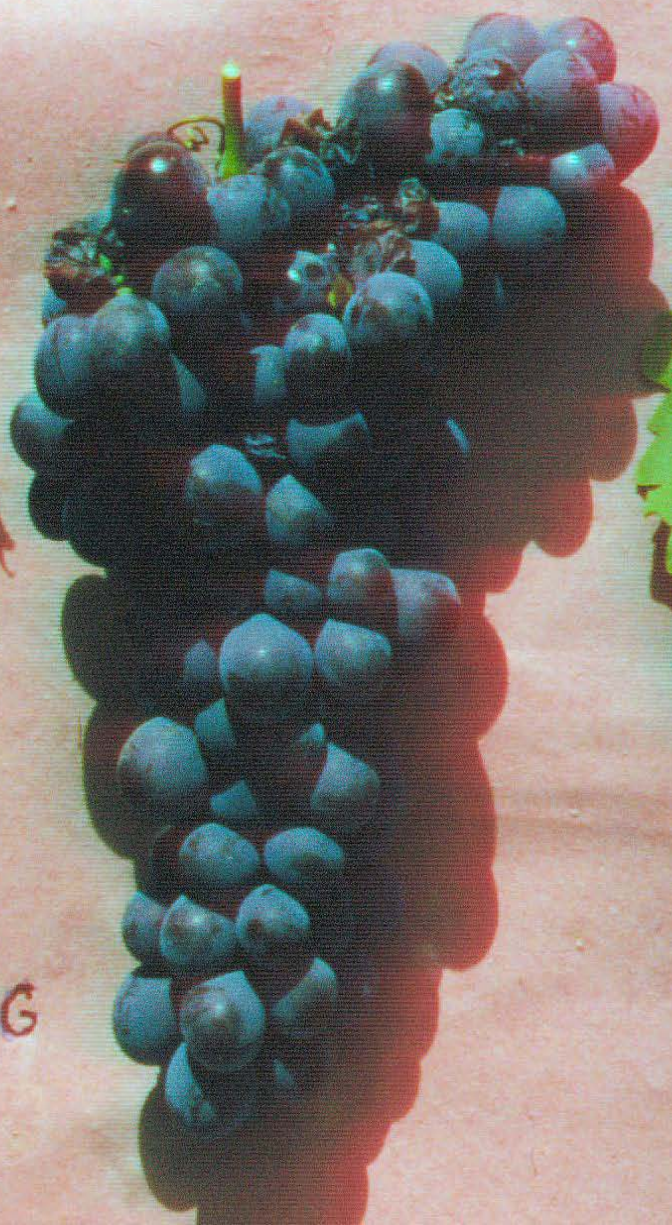












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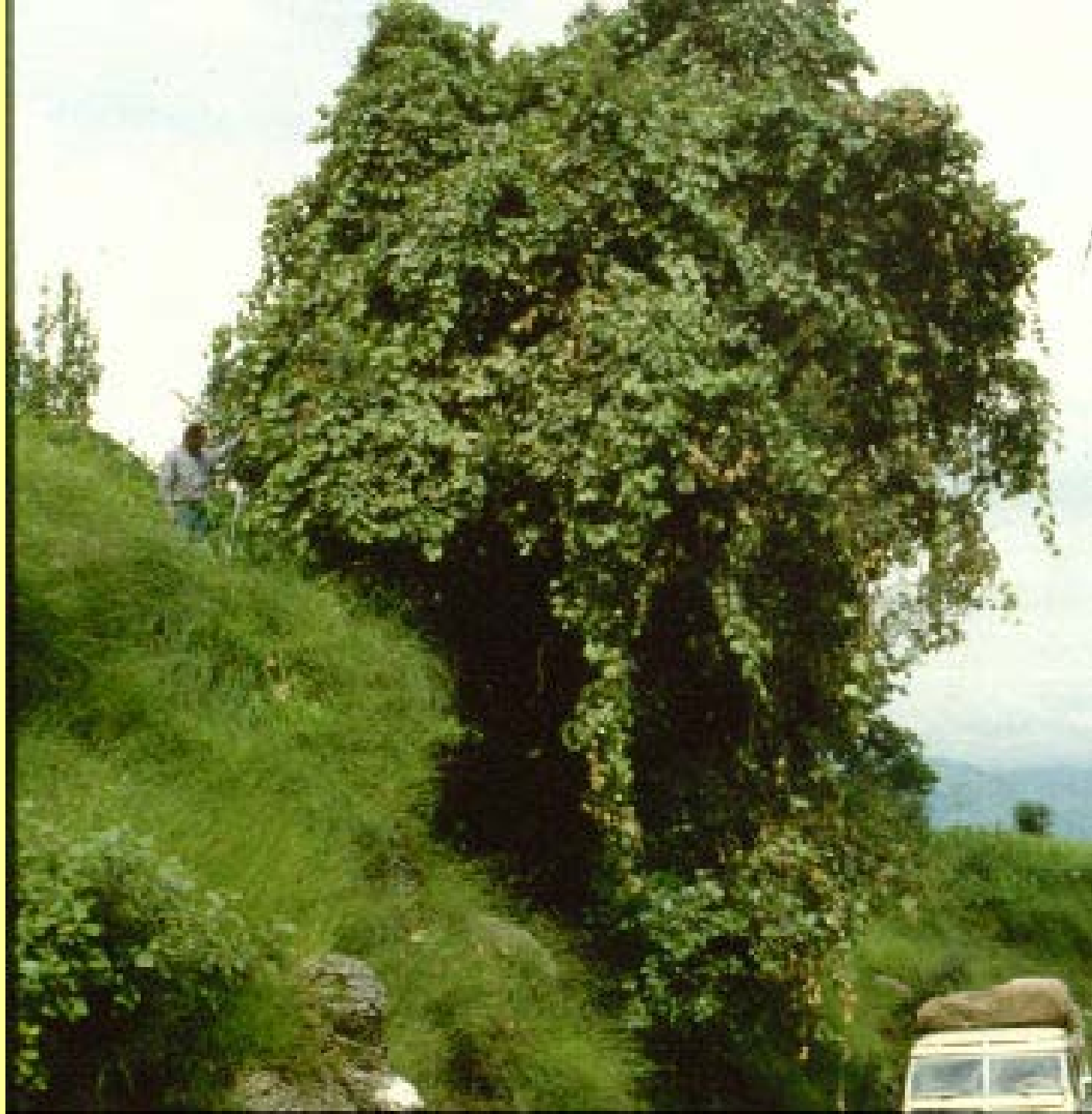




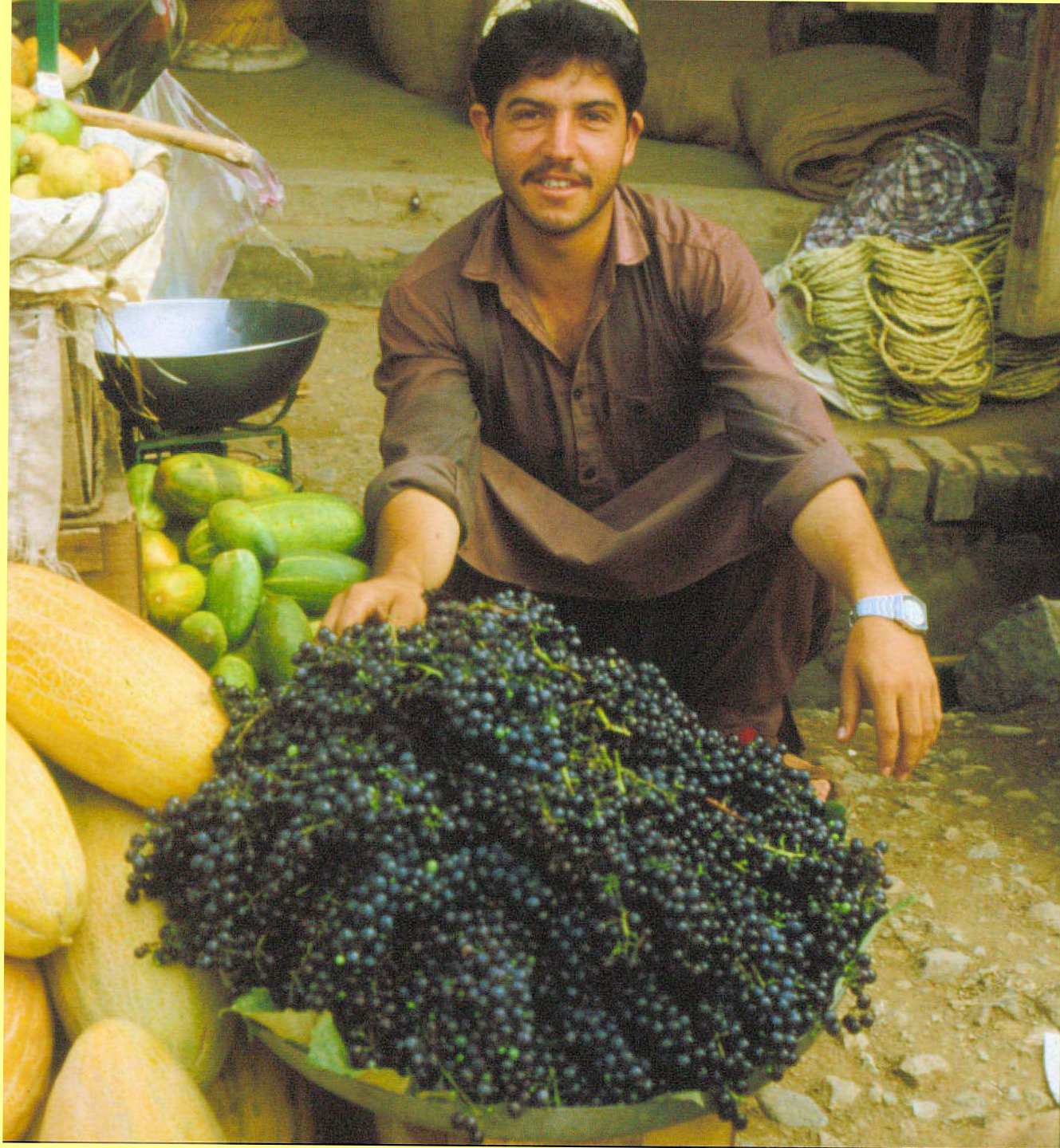




















Pyrus pashia in Swat Valley



