

Picking & Separation Capacity + Cost Planner

*A grower ledger to size staff and costs for the two most time-critical steps on peak days. Units: **flowers/hour** and **mg/flower**; add your currency (\$, €, ₹, etc.).*

A) Quick Inputs (fill first)

- **Total season flowers (estimate):** _____ flowers (*or: corms × flowers/corm*)
 - **Three-band curve (seasonal %):** Early ____ % • Peak ____ % • Late ____ %
 - **Peak-day flowers (ceiling):** _____ flowers
 - **Average dried yield per flower:** _____ **mg/flower** (*measure 50–100 flowers*)
 - **Currency symbol:** _____
 - **Pick shift length:** _____ h **Separation shift length:** _____ h
 - **Surge trigger:** forecast $\geq$ _____ % of peak **or** visual flush (many just-opening blooms)
Tip: Update **Peak-day** and band % after your first 1–2 pick days.
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B) Daily Forecast Snapshot (3-band curve)

Fast plan without heavy math — adjust each morning.

- **Today's band:** ☐ Early ☐ Peak ☐ Late
- **Bud check:** visible buds × expected open rate = **forecast flowers today**
(*warm, still: 60–70%; cool/wet: 30–40% — refine with your history*)

Field	Formula / guide	Your number
Total season flowers	From Inputs	_____
Band share per day	(Band % × Total) ÷ days in band	_____
Forecast flowers today	Bud count × open rate or Band/day	_____

Surge? If forecast $\geq$ trigger, activate on-call crew for picking and/or separation.

C) Staffing — Baseline (P80) vs Surge

Baseline (P80) = ordinary busy day. **Surge (P95/Peak)** = short-notice add-on crew.

Baseline capacity (enter once, revise mid-season): - **Pickers:** _____ **Hours:** _____ h

Pick rate: _____ flowers/h/picker

- **Separators:** _____ **Hours:** _____ h **Separation rate:** _____ flowers/h/separator

On-call surge pool: Pickers ____ • Separators ____ (contact list ready)

Today's forecast: _____ flowers

Pickers needed today = $\lceil \text{forecast} \div (\text{pick rate} \times \text{hours}) \rceil \rightarrow$ _____

Separators needed today = $\lceil \text{forecast} \div (\text{sep rate} \times \text{hours}) \rceil \rightarrow$ _____

Decision: - ☐ Baseline covers today

- ☐ Call **Surge** for: ☐ picking ☐ separation

- **If over-capacity:** reassign to separation/QC, tray prep, labels, sanitation.

D) Picking Capacity & Cost (per day)

Input / Calc	Your number
Pickers (today)	_____
Hours per picker	_____ h
Pick rate (flowers/hour/picker)	_____
Base wage (per hour)	_____
Overtime hours (optional)	_____ h
Overtime multiplier (e.g., 1.5×)	_____
Total picking capacity (flowers/day)	Pickers × Hours × Rate = _____
Base labor cost	Pickers × Hours × Wage = _____
Overtime labor cost	Pickers × OT × Wage × OT mult = _____
Total picking labor cost	Base + OT = _____
Cost per 1,000 flowers (picking)	Total picking cost ÷ (Capacity/1000) = _____

E) Flower Separation (Stigma Filament) Capacity & Cost (per day)

“Flower processors / separators” who pluck stigmas; drying & packaging are **not** included here.

Input / Calc	Your number
Separators (today)	_____
Hours per separator	_____ h
Separation rate (flowers/hour/separator)	_____
Base wage (per hour)	_____
Overtime hours (optional)	_____ h
Overtime multiplier	_____
Total separation capacity (flowers/day)	Separators × Hours × Rate = _____
Base labor cost	Separators × Hours × Wage = _____
Overtime labor cost	Separators × OT × Wage × OT mult = _____
Total separation labor cost	Base + OT = _____
Cost per 1,000 flowers (separation)	Total separation cost ÷ (Capacity/1000) = _____
Cost per gram dried (separation)	Total separation cost ÷ Dried grams/day = _____

F) Fast Formulas (reference)

- **Capacity (picking)** = Pickers × Hours × Pick rate
- **Capacity (separation)** = Separators × Hours × Separation rate
- **Dried grams/day** = (Peak-day flowers × mg/flower) ÷ 1000 (or: *forecast × mg/flower ÷ 1000 for today*)
- **Cost/1,000 flowers** = Total labor cost ÷ (Capacity ÷ 1000)
- **Cost/gram dried** = Total labor cost ÷ Dried grams/day

G) Triggers & Operating Notes

- **Surge on:** forecast $\geq$ ____ % of peak *or* visible flush across beds.
 - **Surge off:** two consecutive days $<$ ____ % of peak.
 - **Protect quality:** pre-dawn picking, fast intake, cooler hold **0–1 °C (32–34 °F)**, stack $\leq$ **10 cm (4")**, hold $\leq$ **24–48 h**.
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H) Notes & Adjustments

- **Bottleneck found:** _____
- **Today's fix:** _____
- **Before next season:** _____