Savannah River Basin Comp. Study – Operational Scenarios

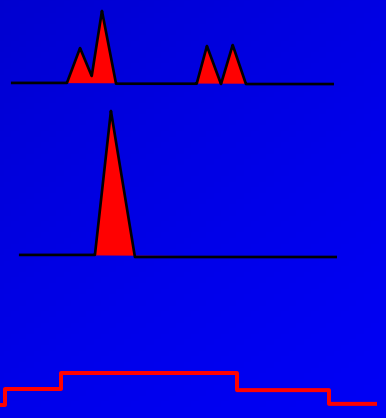
- **Drought Plan**
  - **New recovery triggers at 1 to 2 ft. above Level 2(4500 cfs) & Level 3(3600 cfs)**
  - **Increase the number of triggers levels**
  - **Adjust maximum Thurmond releases of 3600>3300>3000 & 3800 cfs to assess pool effects**
  - **Set Thurmond Level 3 min to 3000 cfs, max to 3600 cfs and Augusta minimum to 3600**
  - **Adjust the trigger elevations higher in pool**
    - **Level 3 - 316>318>320 and 646>648>650**

Savannah River Basin Comp. Study – Operational Scenarios

- **Storage Changes**
  - **Raise top of Conservation 1 ft. into Flood Storage**
  - **Raise the top and bottom of Flood Pool 12 to 18 inches**
  - **No Hartwell winter drawdown**
  - **Limit Hartwell drawdown to 658' msl**
  - **Raise the bottom of Hartwell Conservation pool from 625'msl to 642' msl = JST's 18'**
  - **Balance pools based on Ft/Ft, % Conservation remaining, or impact to facilities**

Savannah River Basin Comp. Study – Operational Scenarios

- **Flow Changes**
  - **TNC downstream springtime pulses**
    - **inflow/storage based magnitude**
  - **TNC flood flow recommendations**
    - **i.e. once every 10 years**
  - **TNC base flow recommendations**
  - **Compare 15,000 cfs and 30,000 cfs channel capacities at Augusta.**



Savannah River Basin Comp. Study - Operational Scenarios

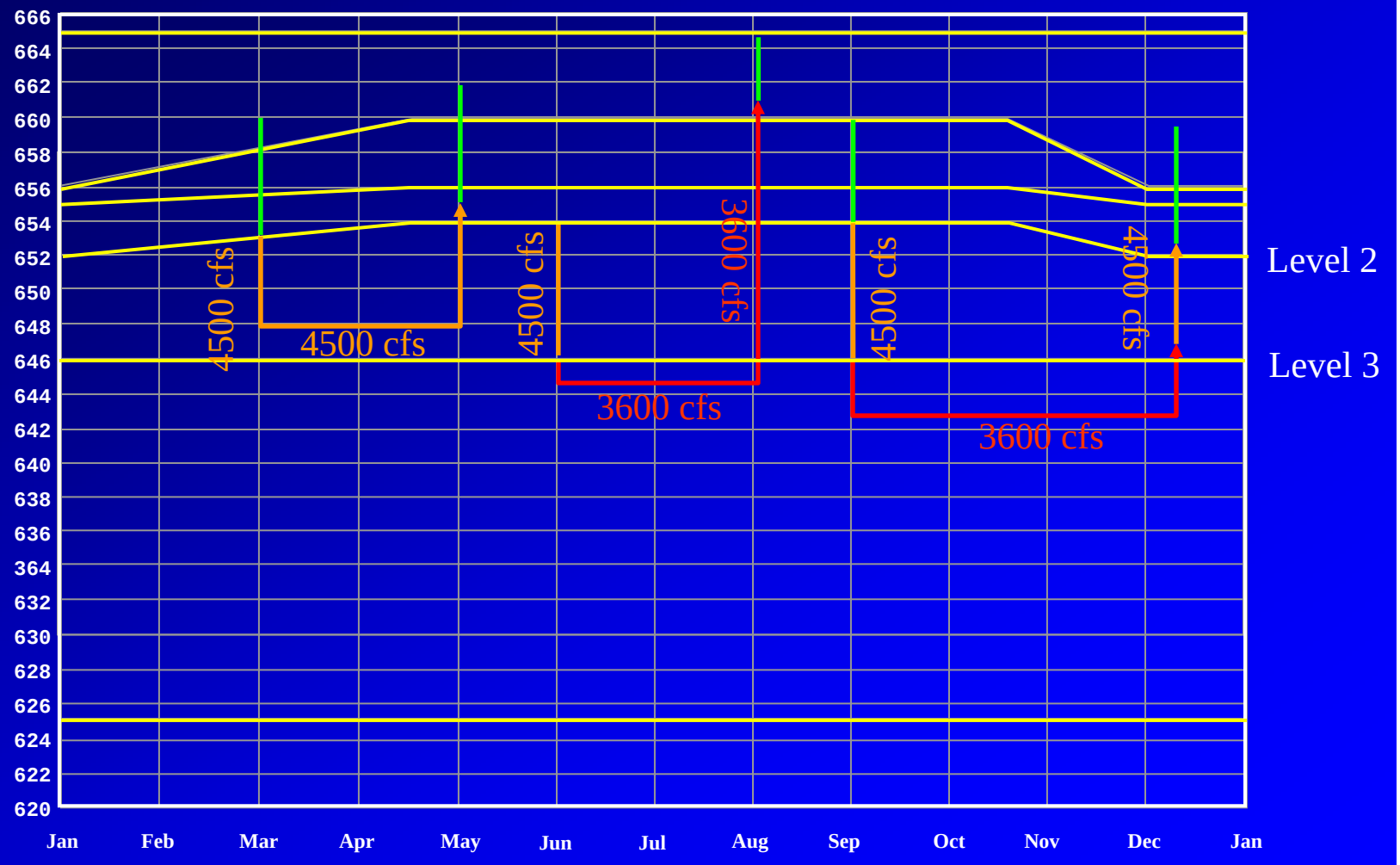
- **Operational Rules**
  - **Run Current Base Condition with Duke Power storage balance agreement (1962 vs present)**
  - **Put winter draw-downs in Date Sync**
  - **Limit Winter draw-down to 0.5 ft / week**
  - **Shift draw-down windows**
  - **Shorten or lengthen draw-down/refill windows**
  - **Fish spawn priority above hydropower**
  - **Limit June-Sept Pumping to 2 & 4 units**

Savannah River Basin Comp. Study - Operational Scenarios

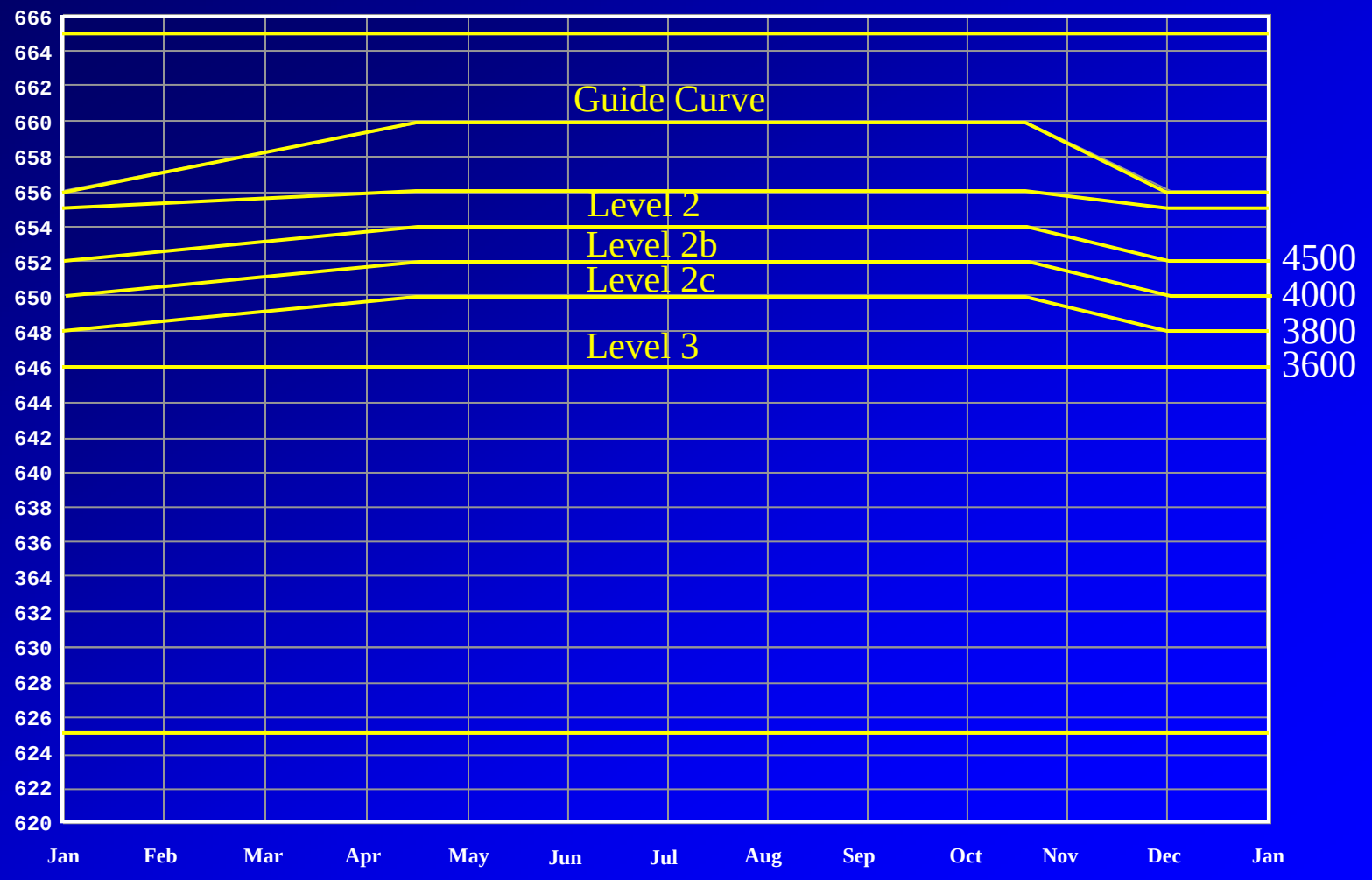
- **Other Alternatives**
  - **Downstream Levees to Offset Flood Flows into developed areas.**

Any Questions

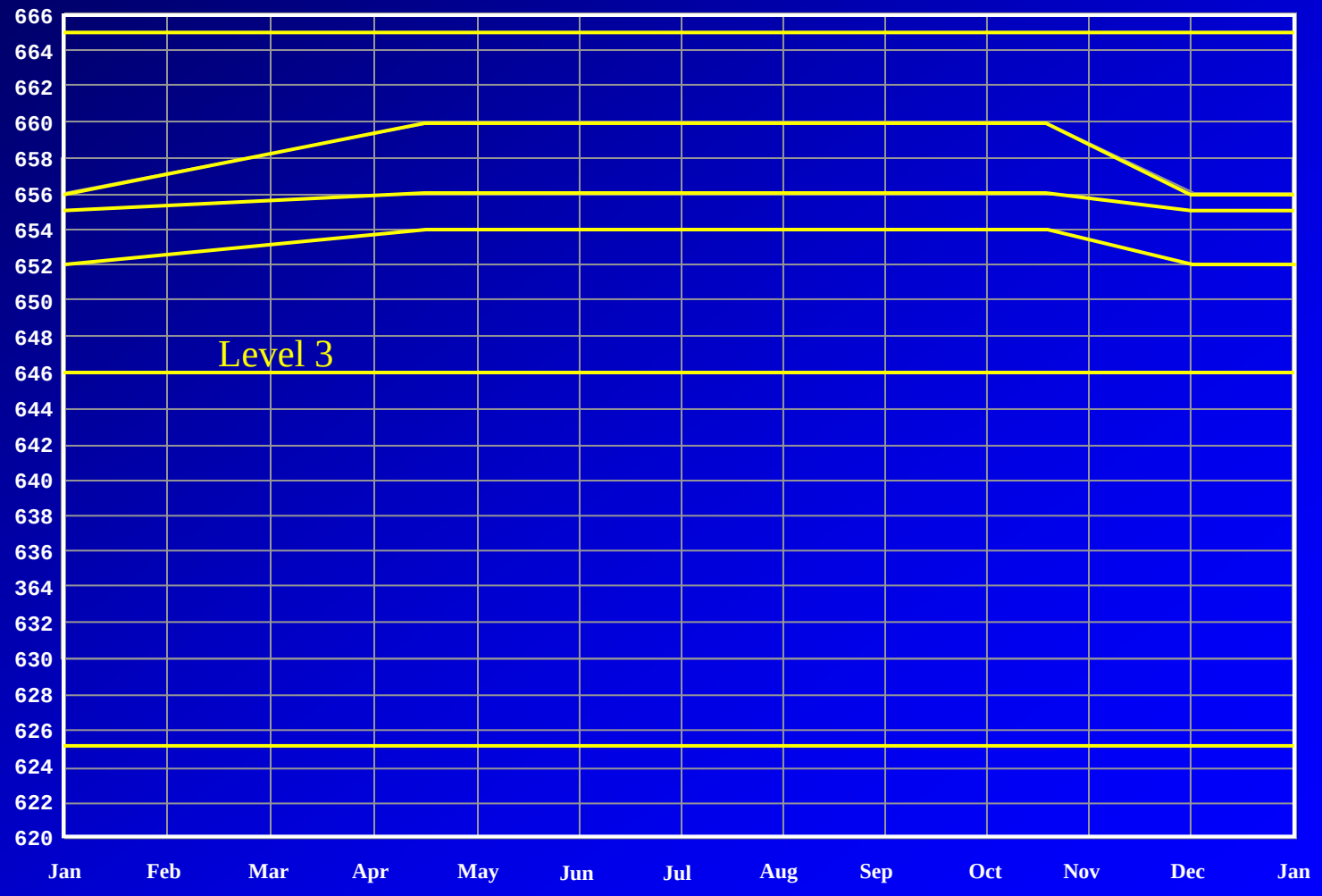
Trigger Buffers



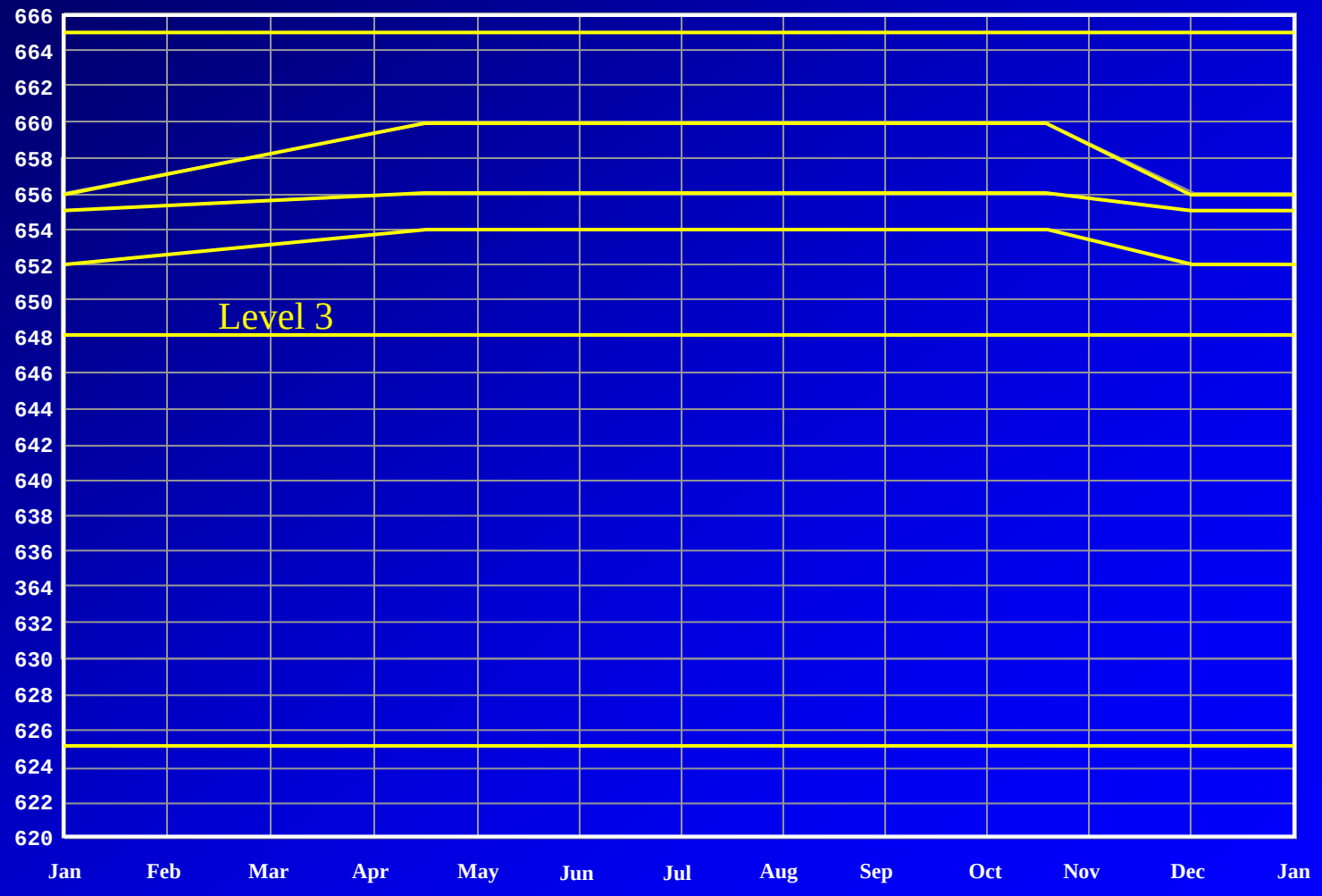
More Triggers



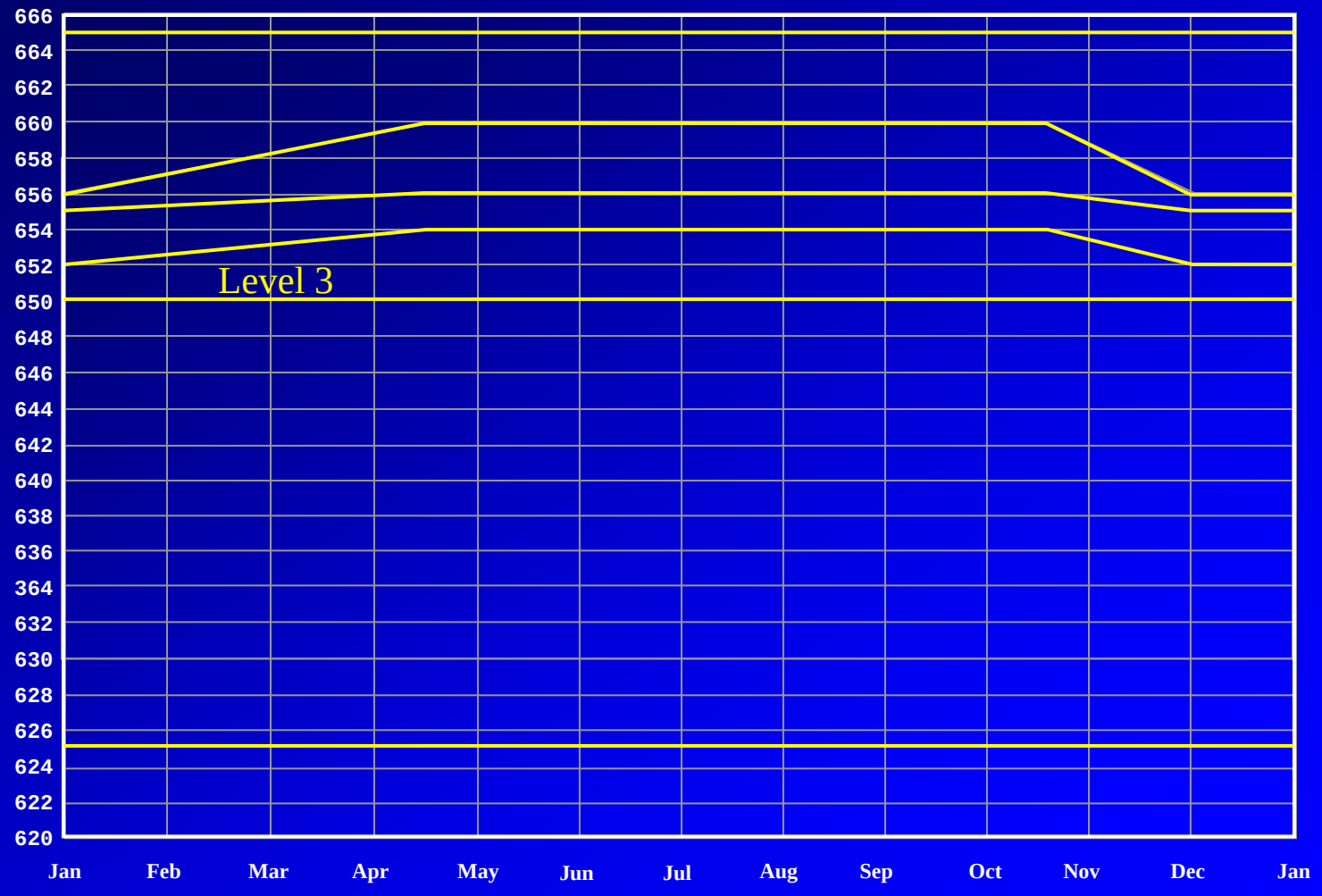
Raise Level 3



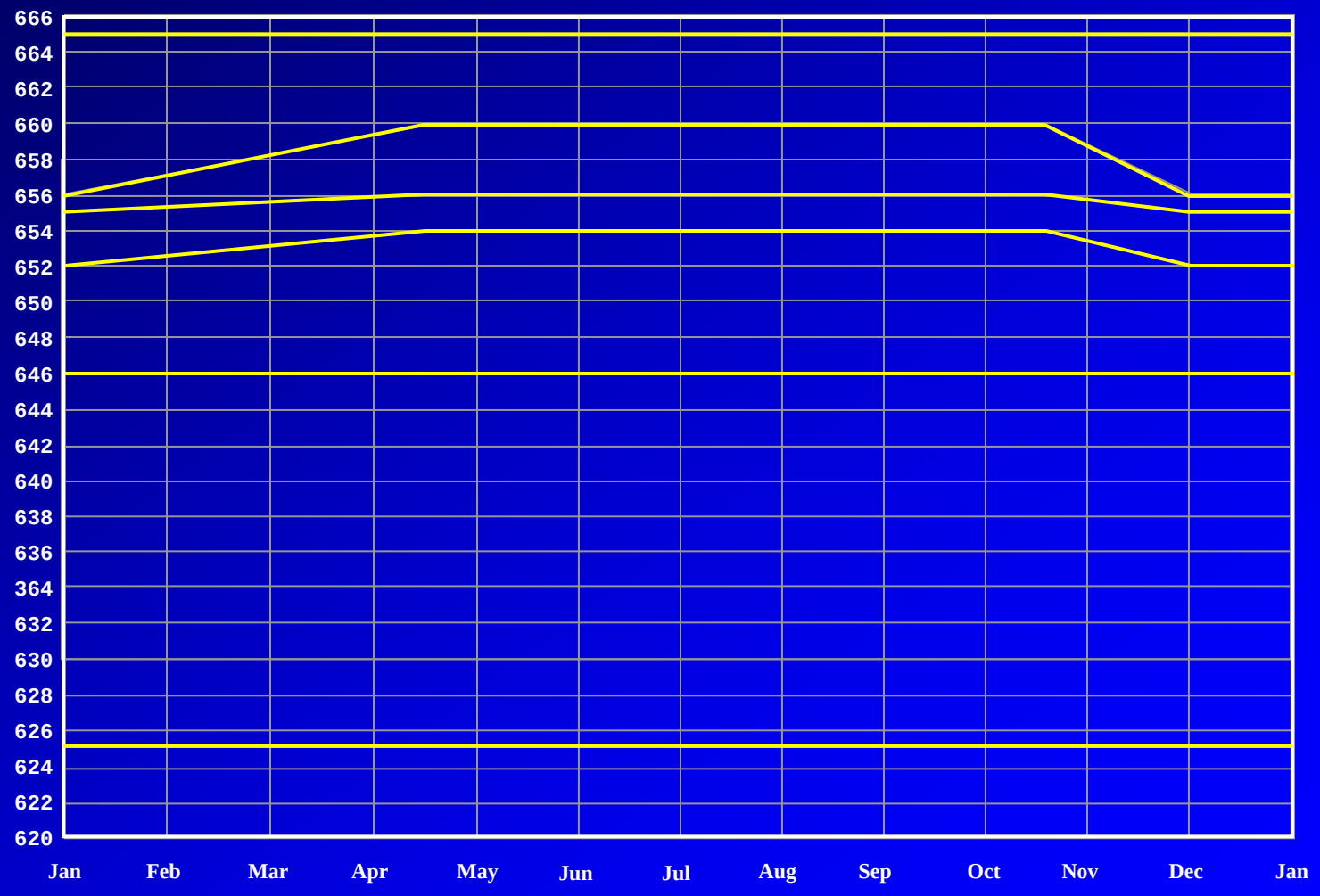
Raise Level 3



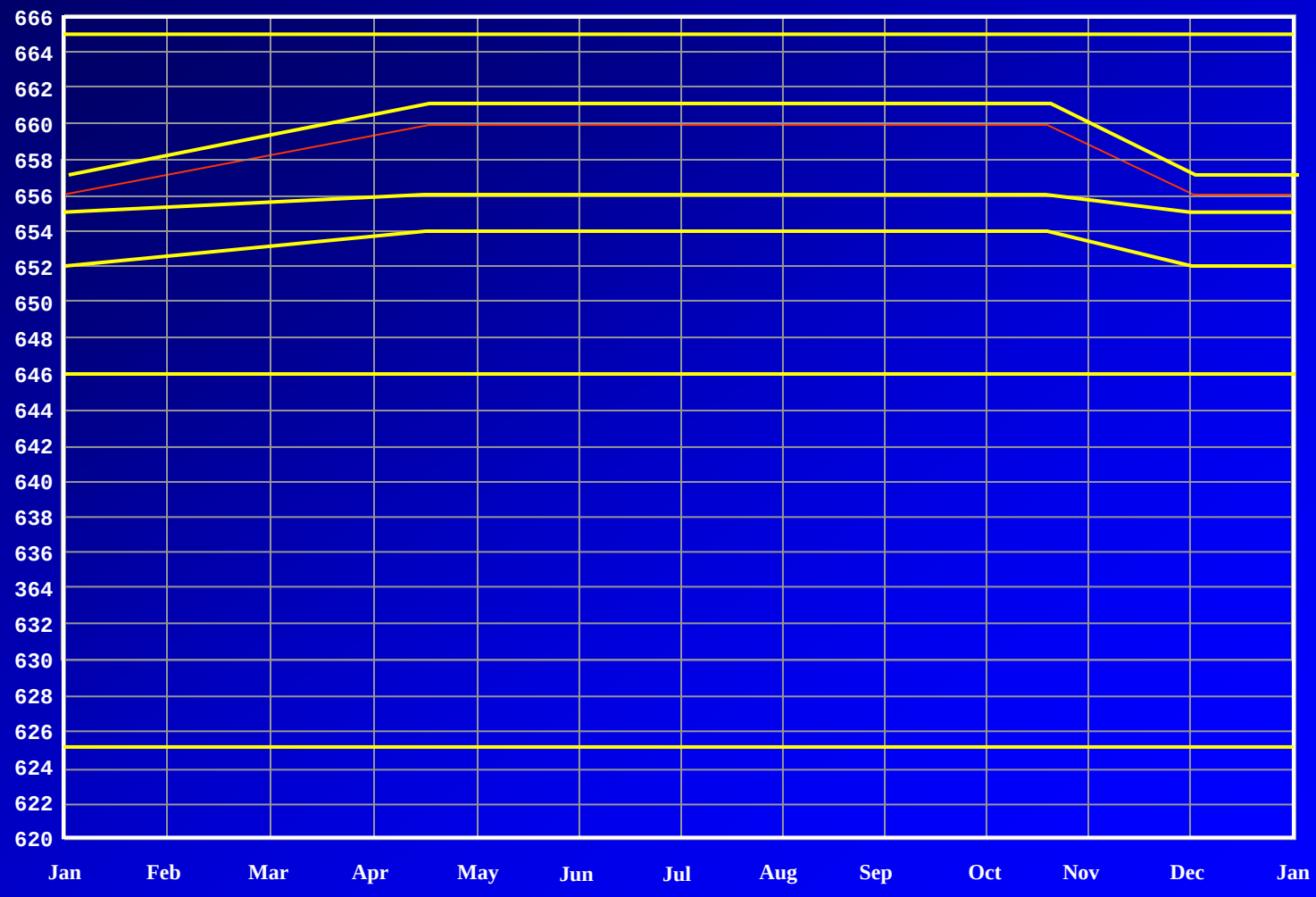
Raise Level 3



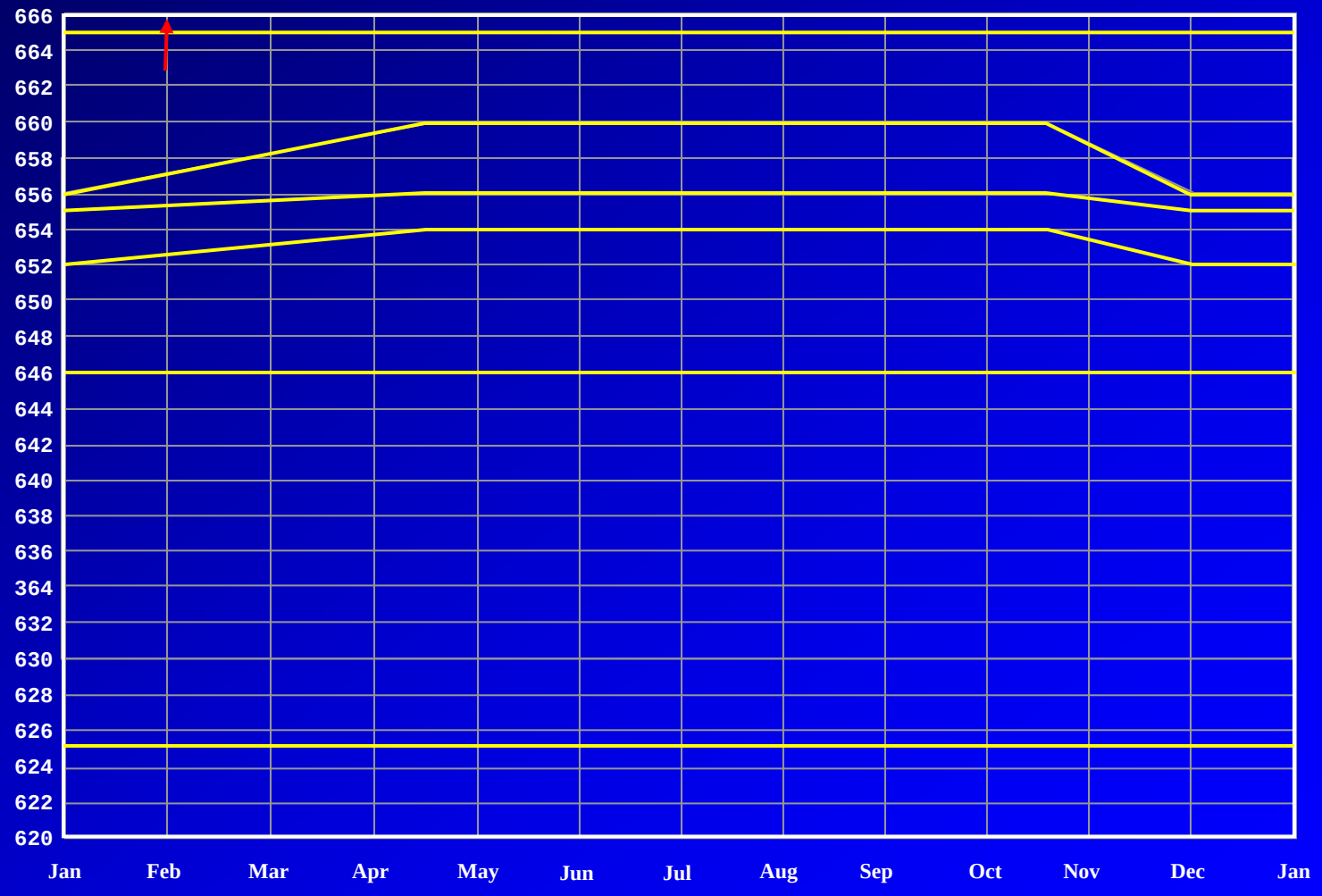
Raise Top of Conservation



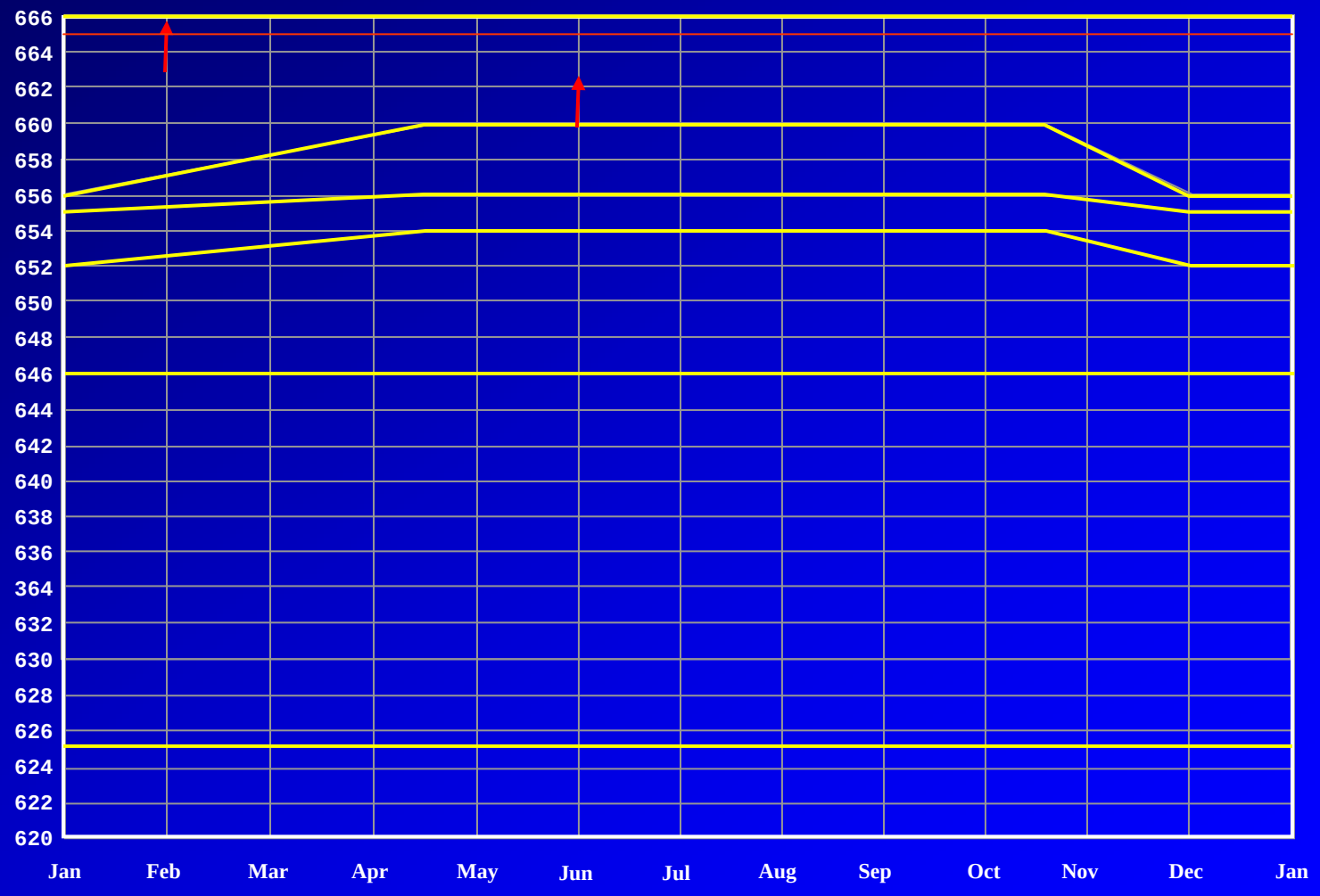
Raise Top of Conservation



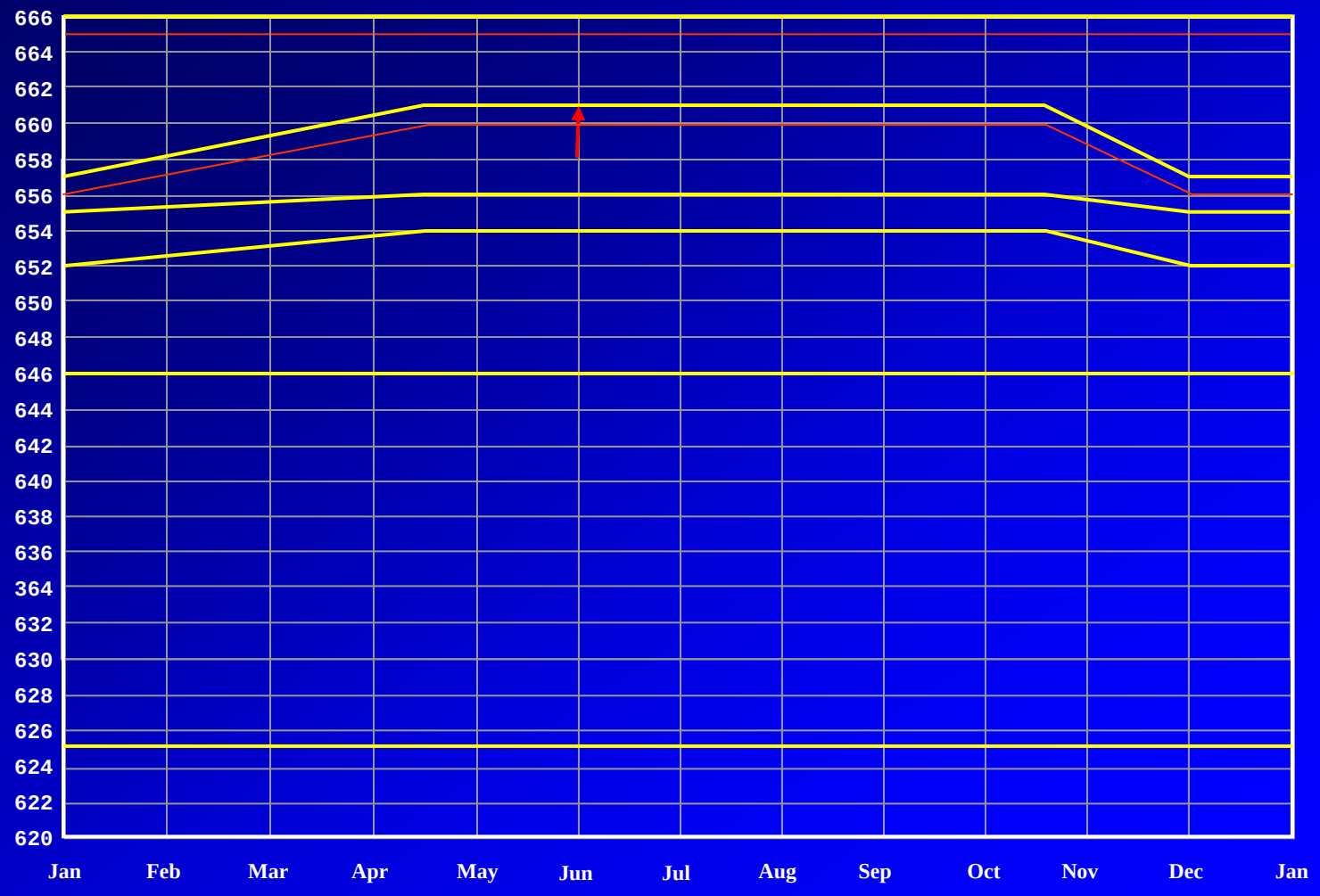
Raise Flood Pools



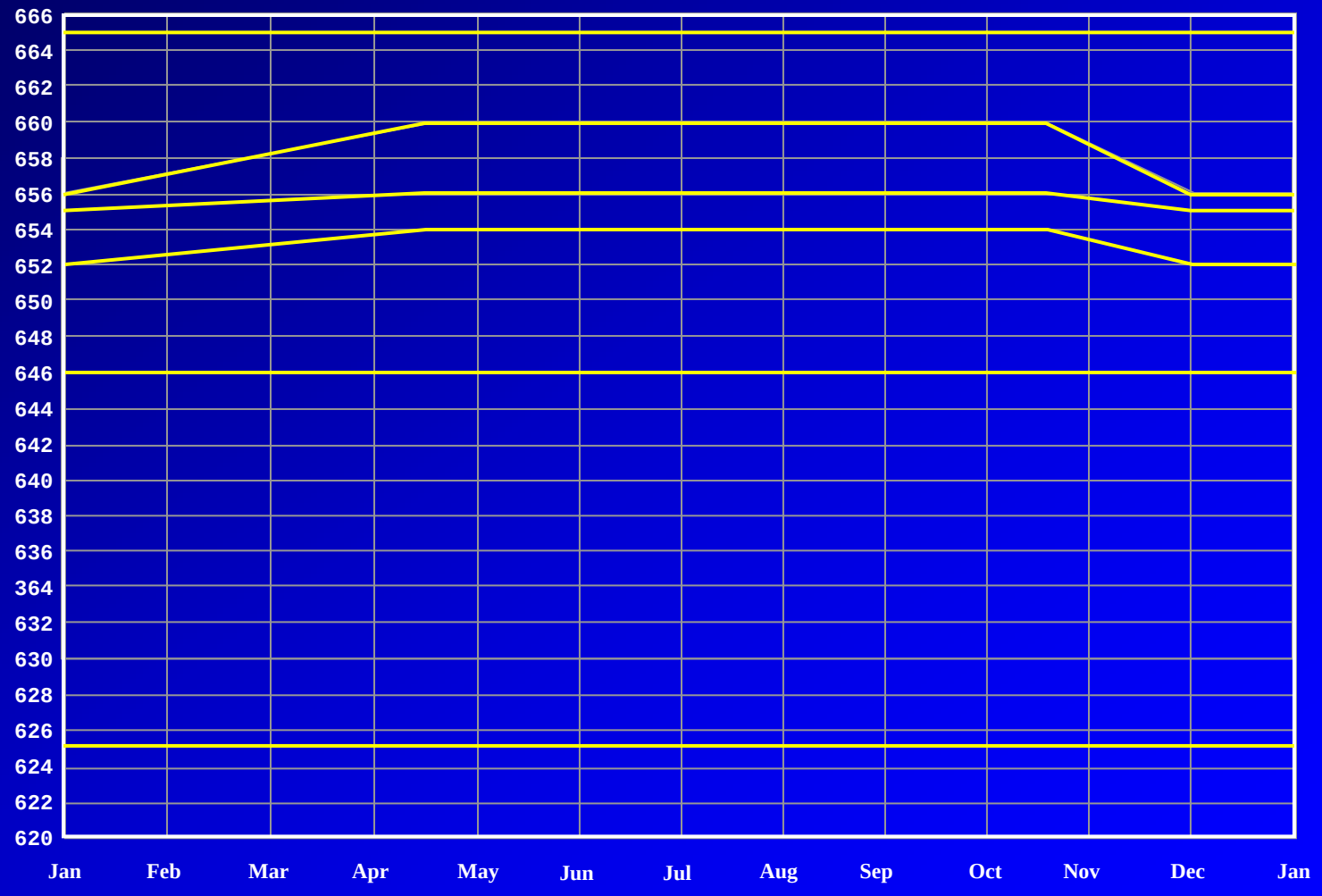
Raise Flood Pools



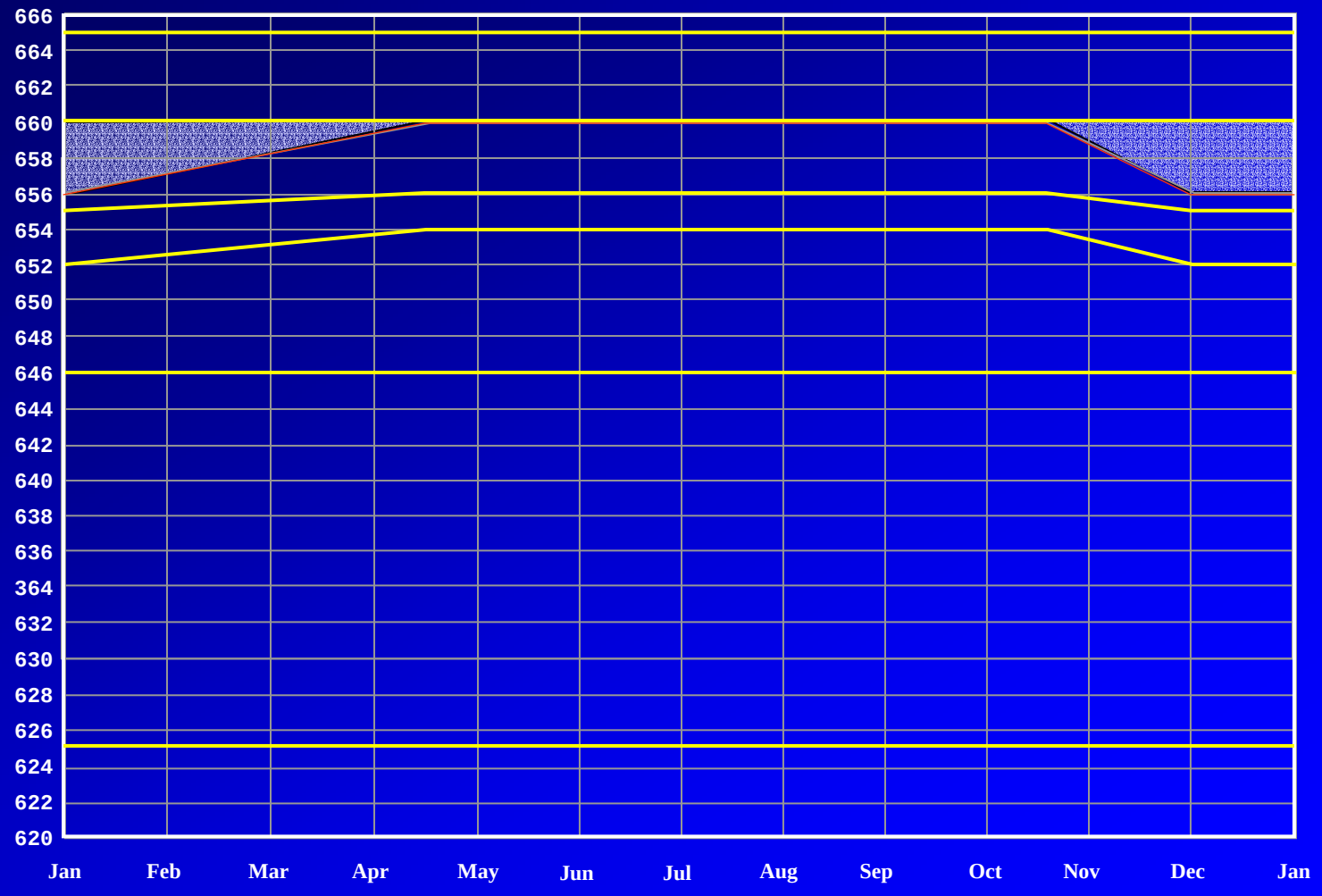
Raise Flood Pools



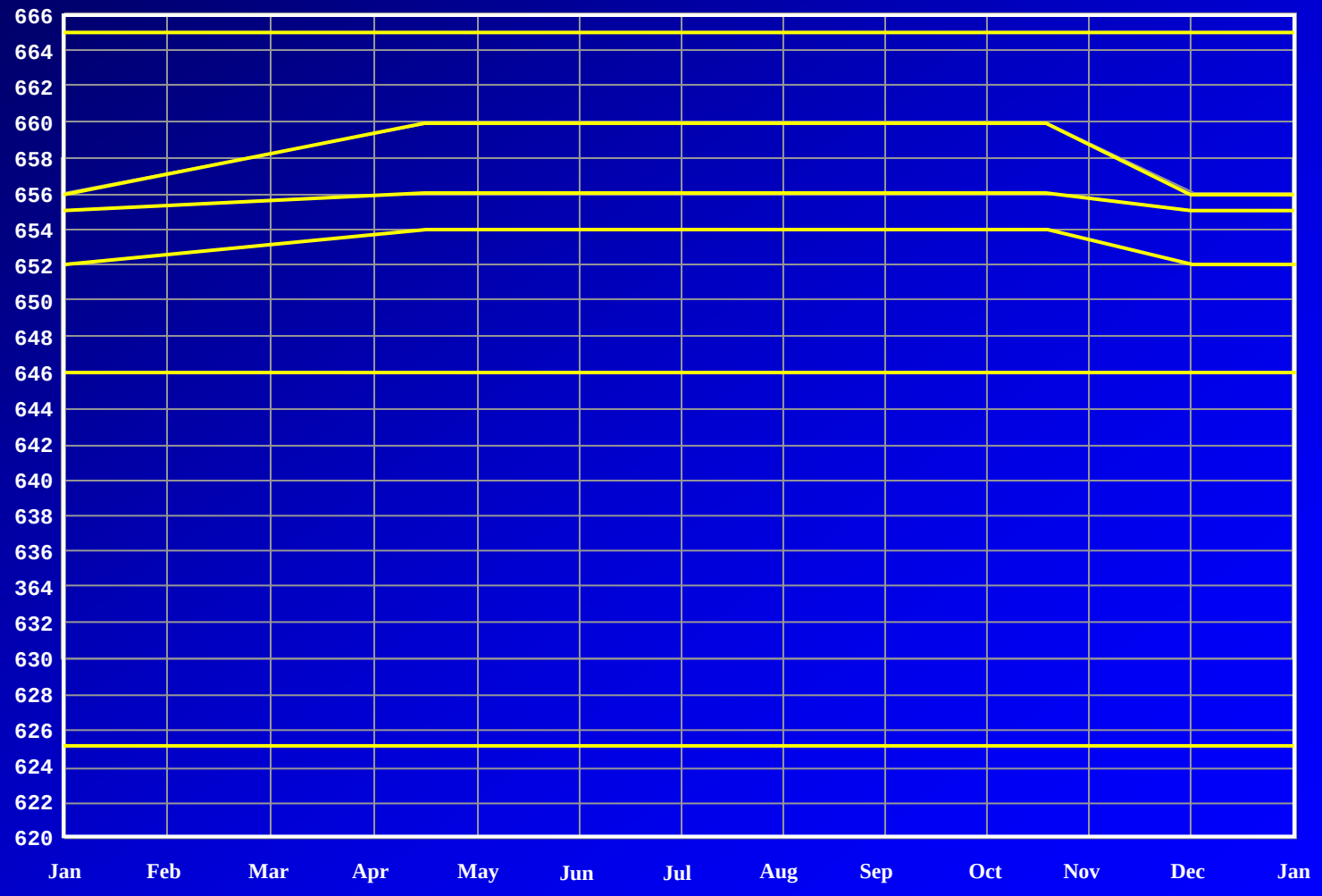
No Hartwell Drawdown



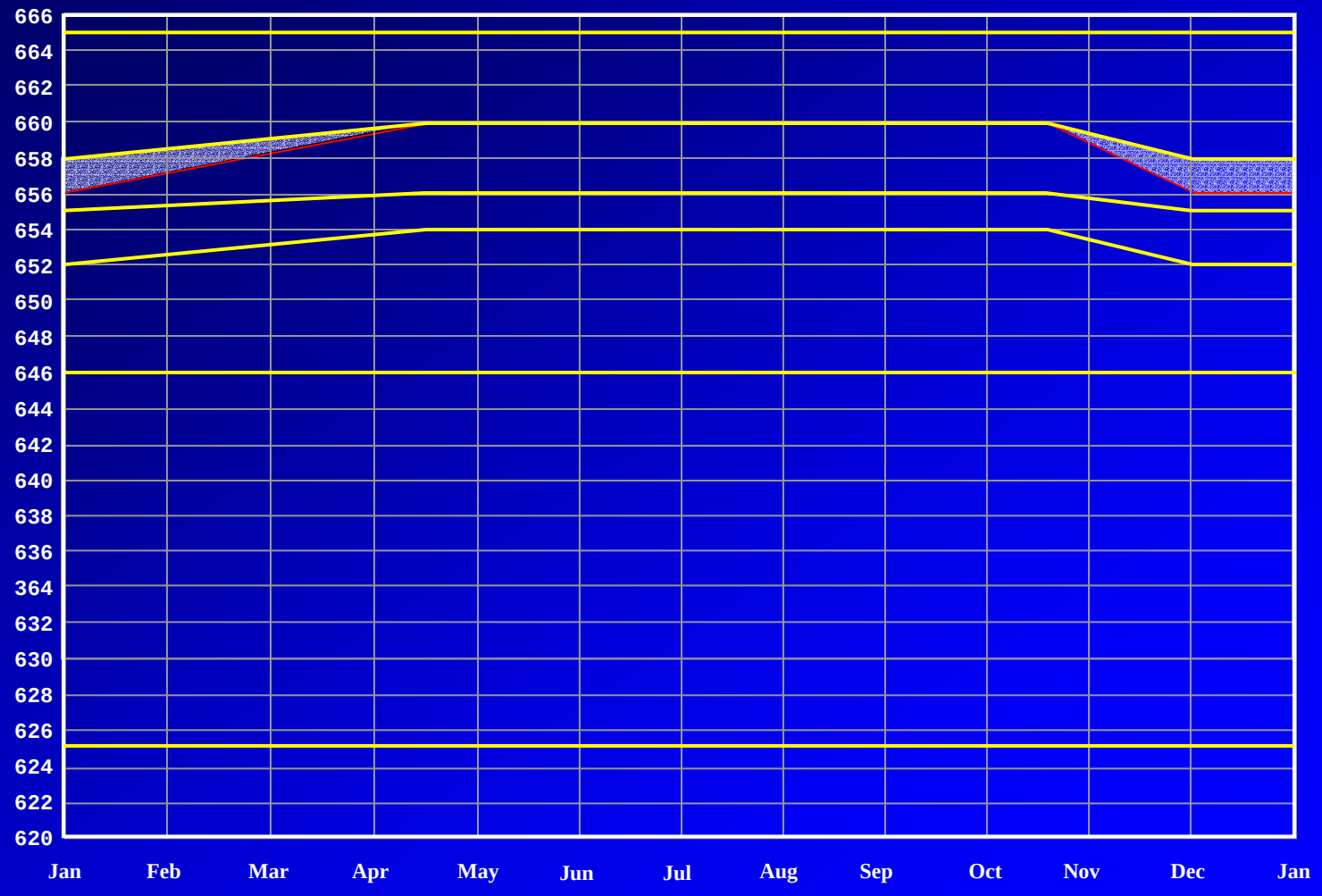
No Hartwell Drawdown



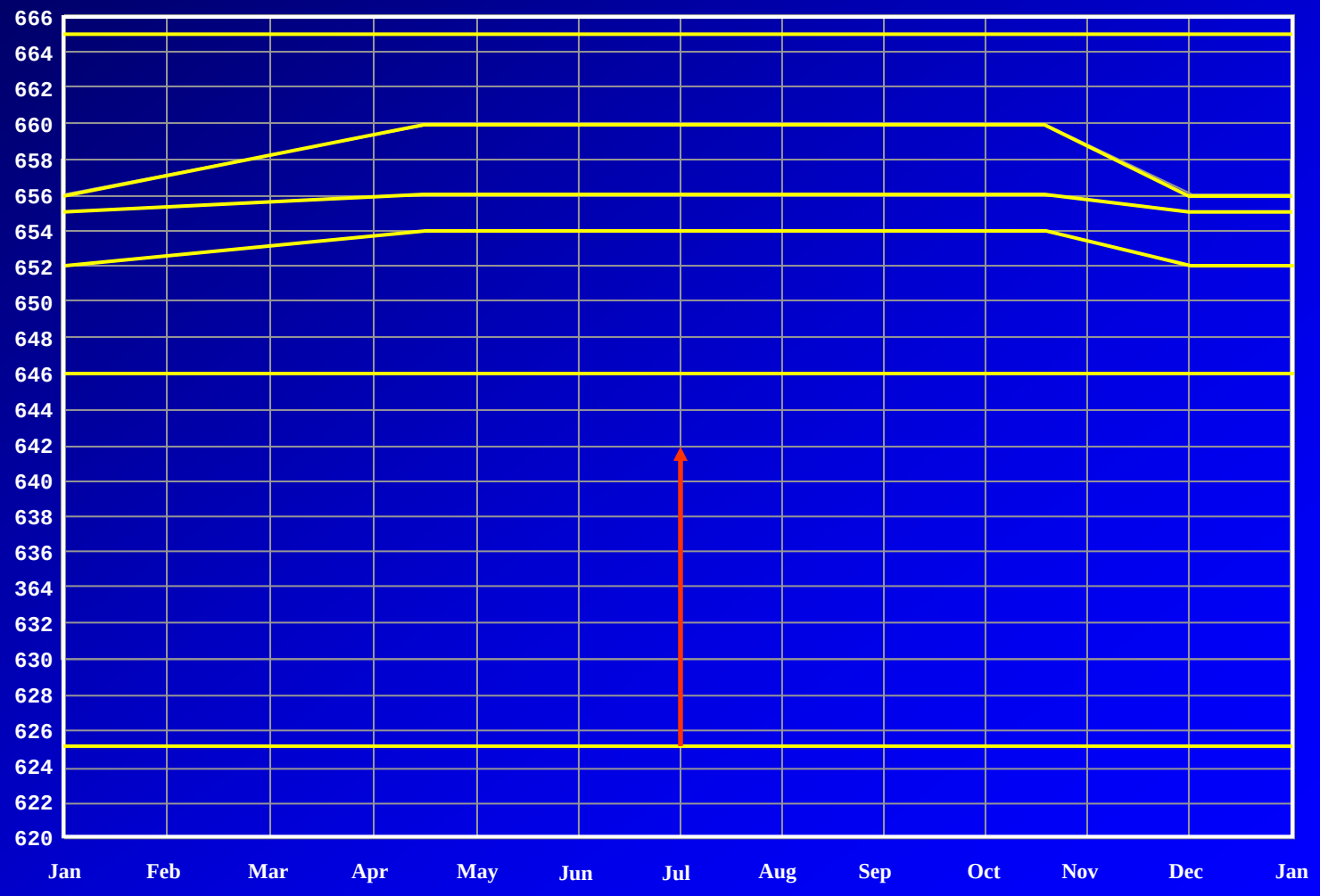
Limit Hartwell Drawdown



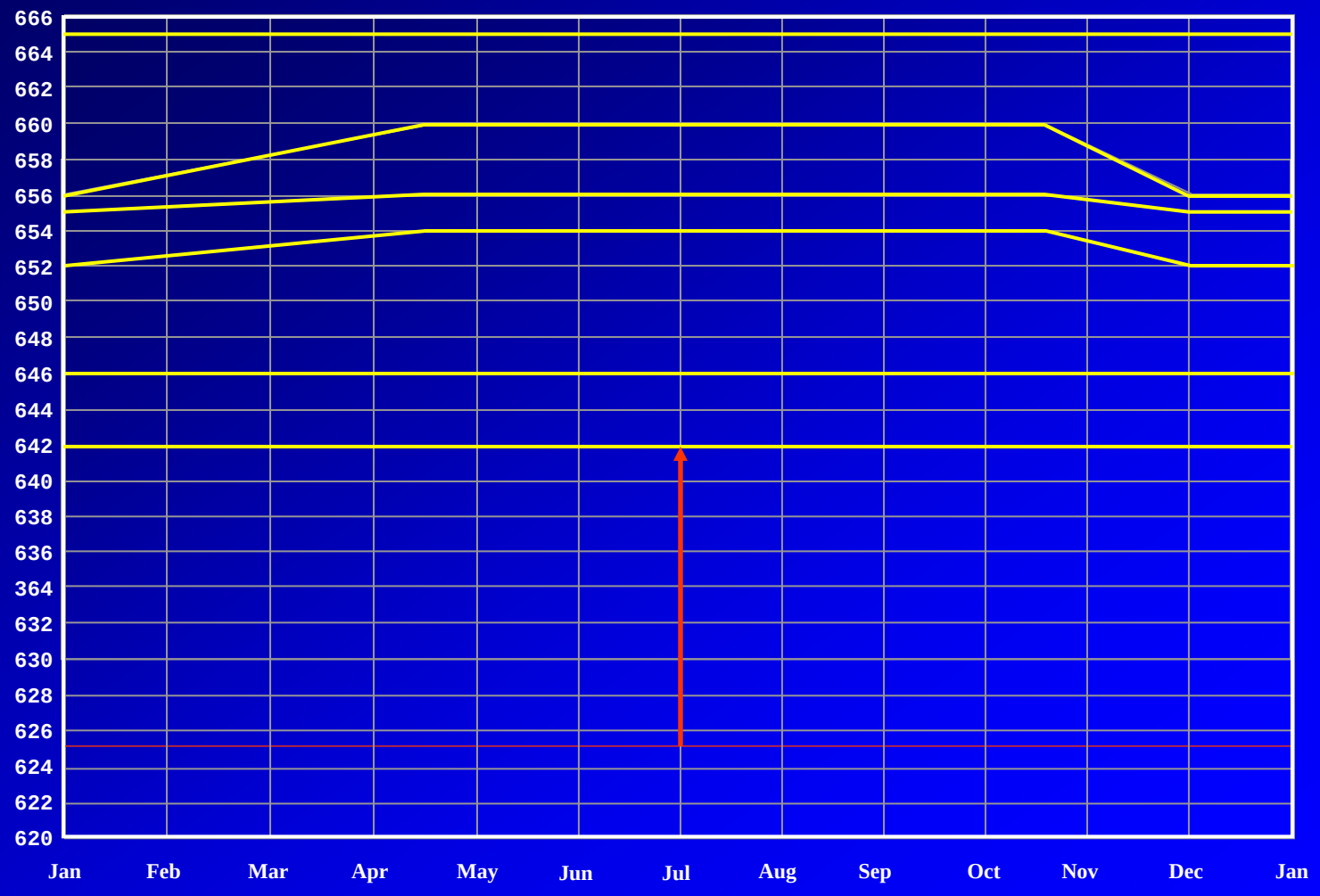
Limit Hartwell Drawdown



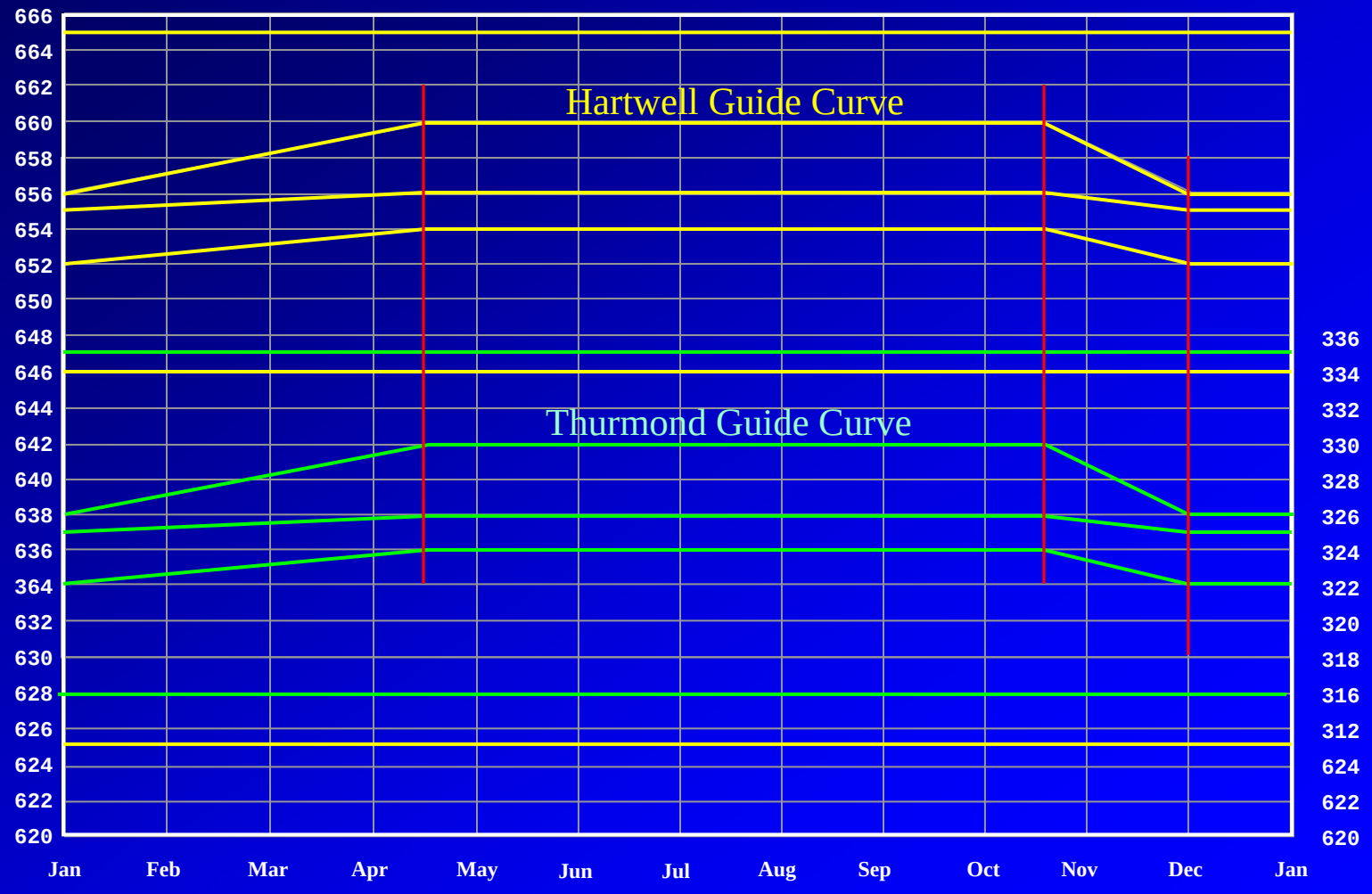
Raise Bottom of Conservation



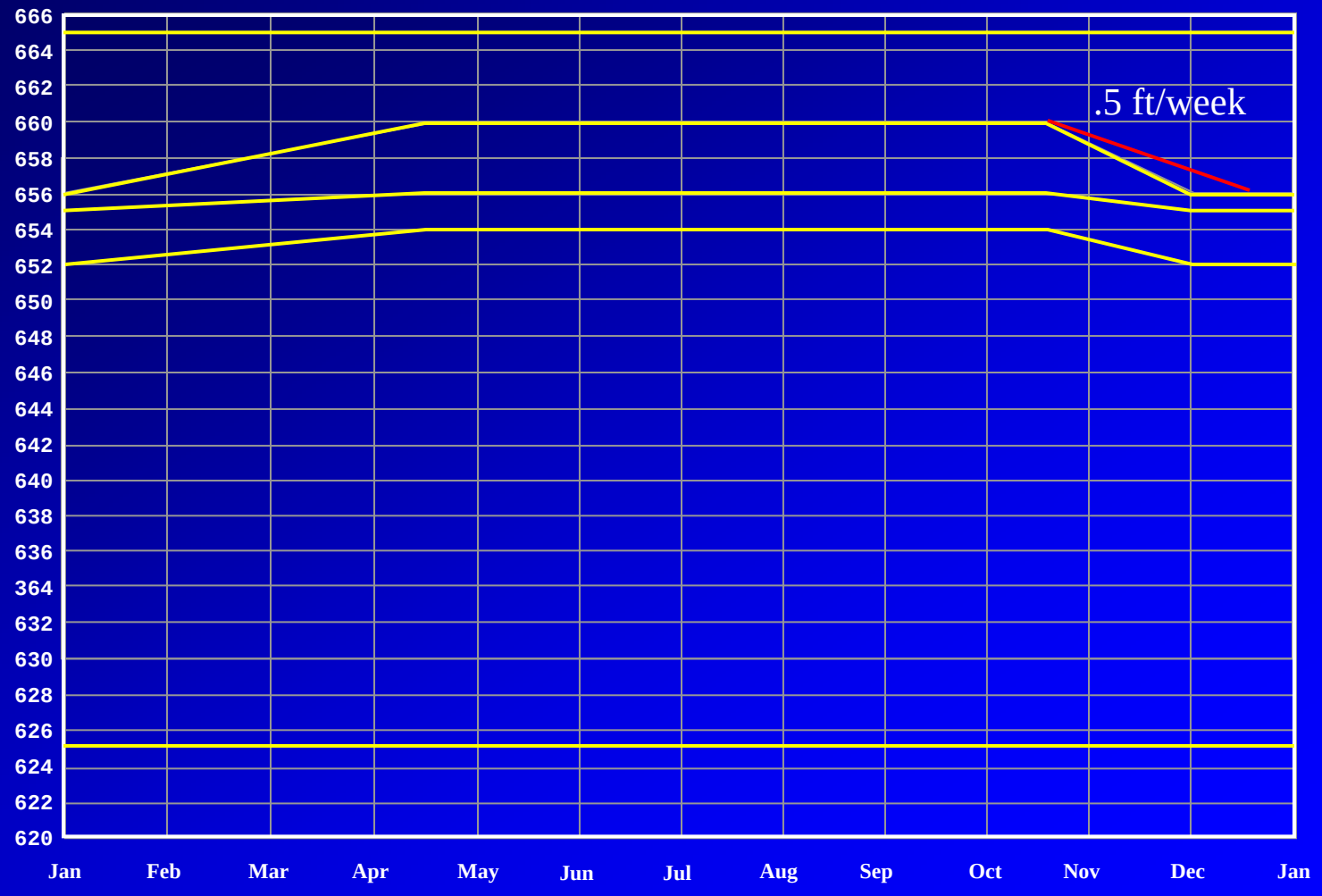
Raise Bottom of Conservation



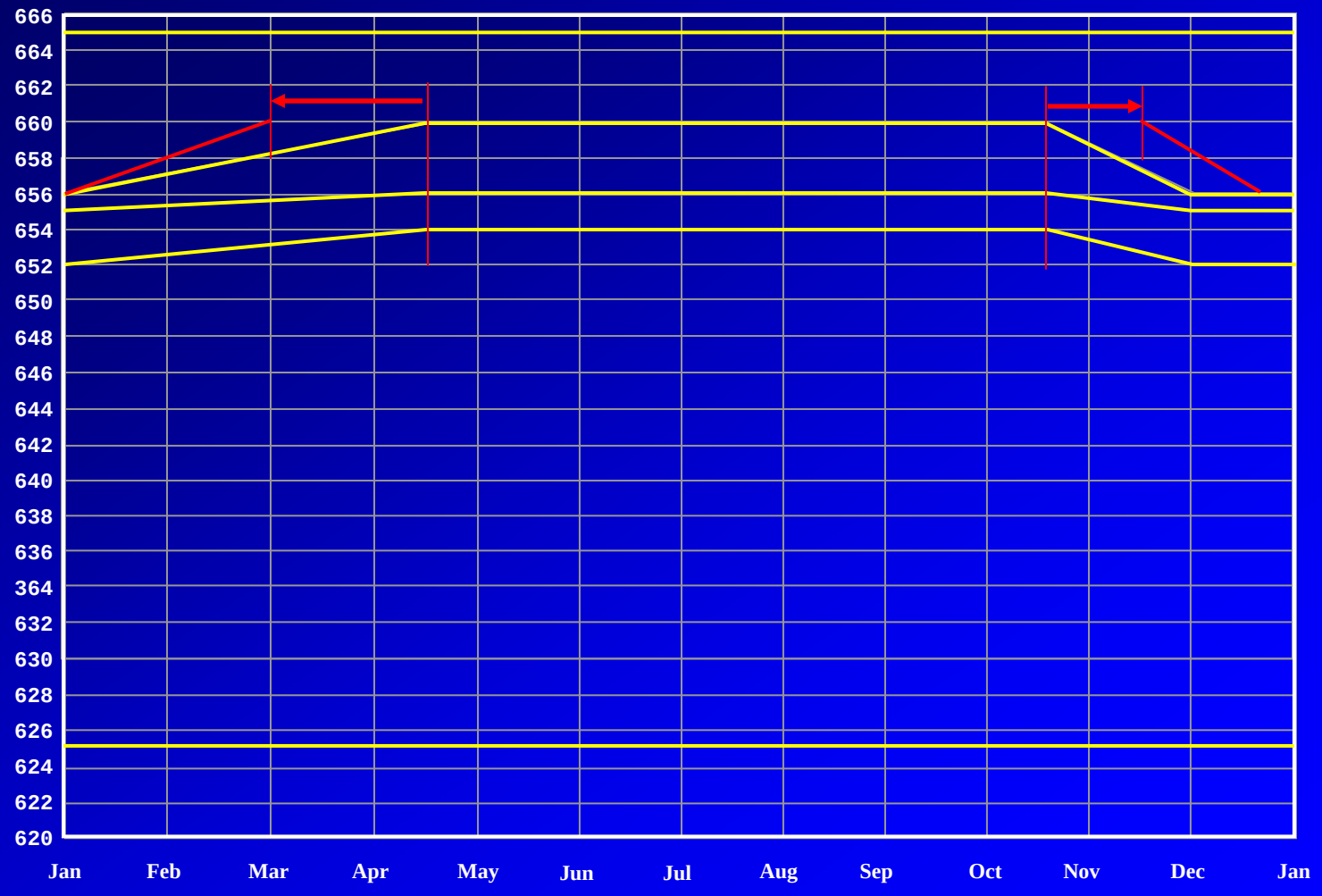
Sync up Break Points



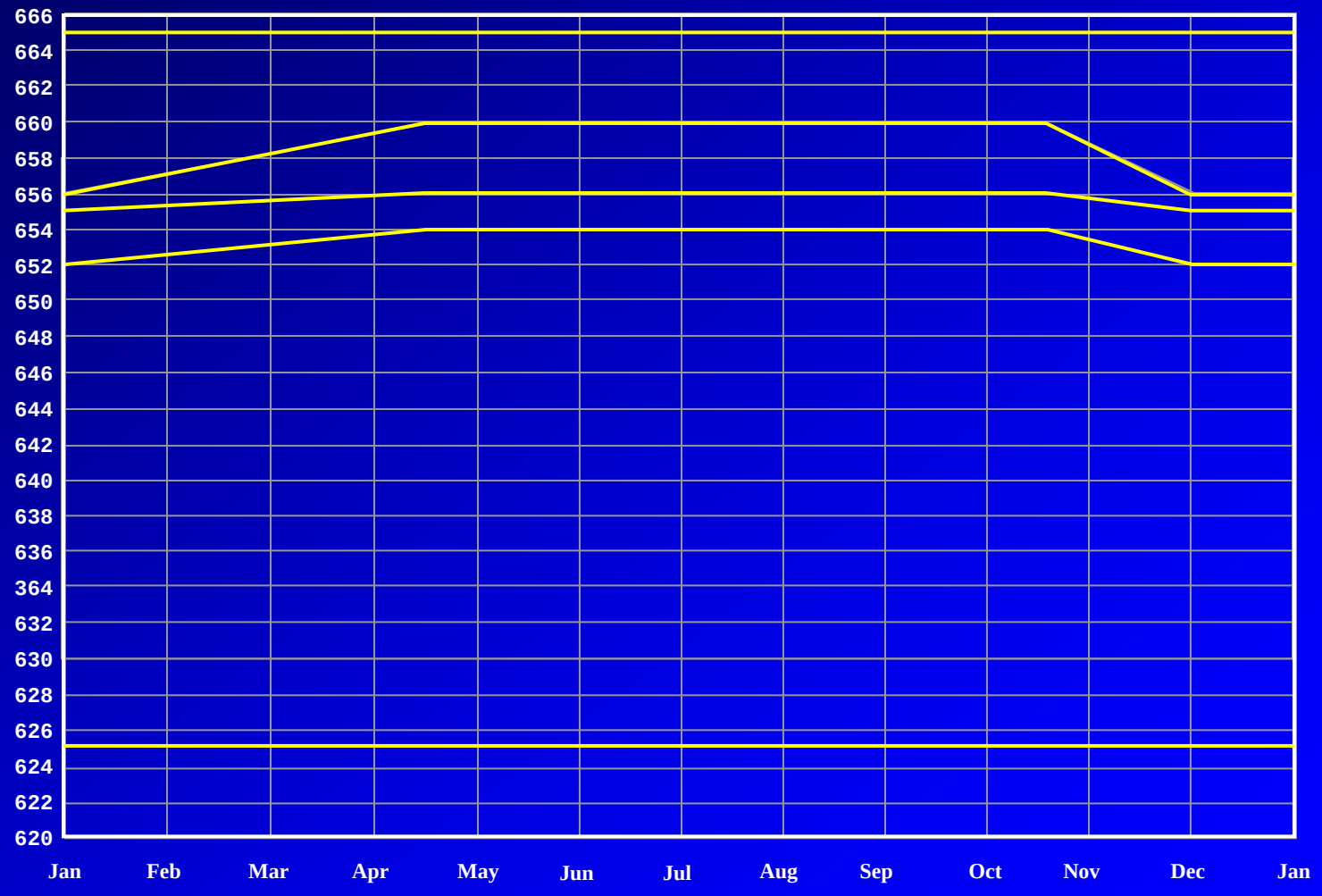
Reduce Rate of Drawdown



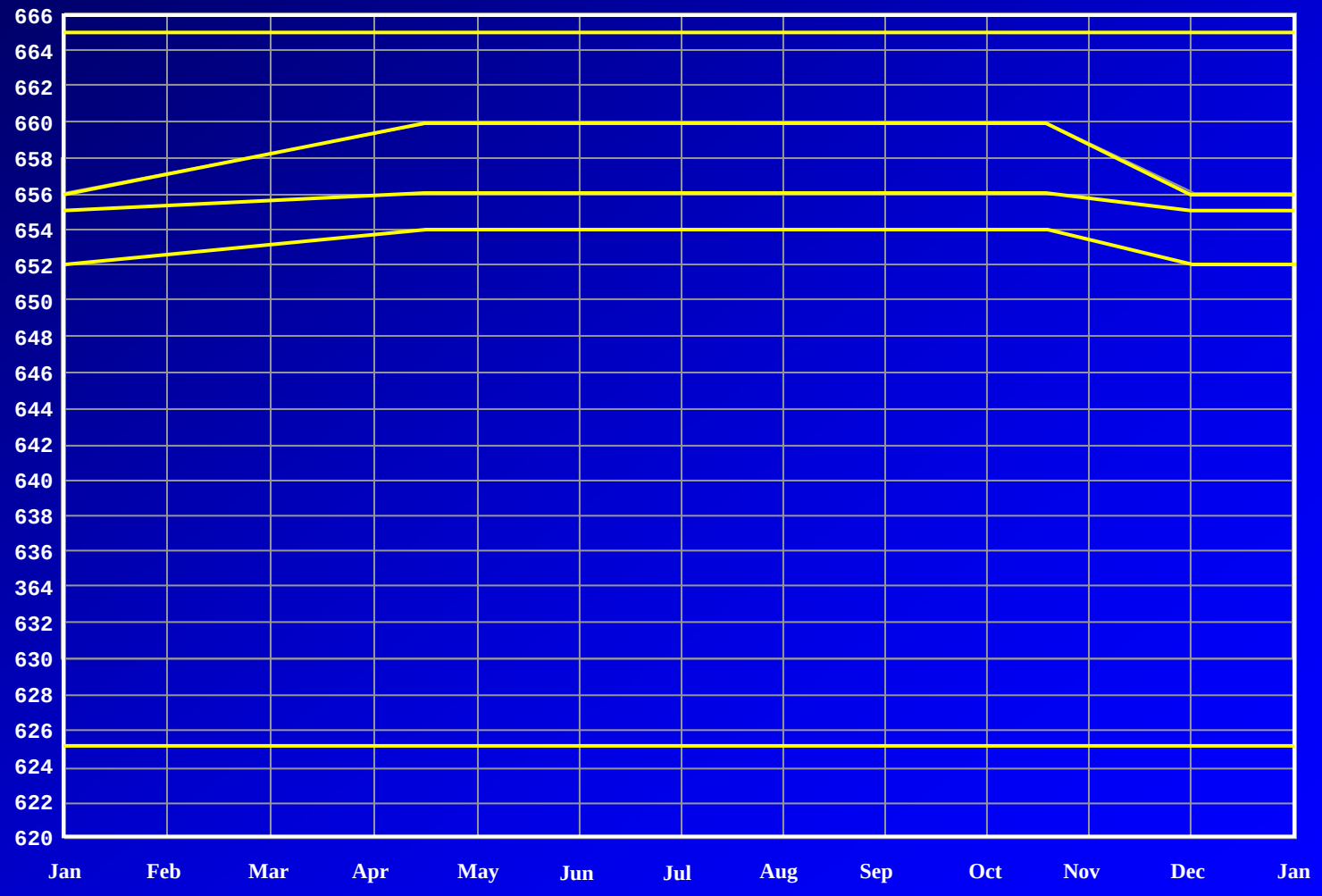
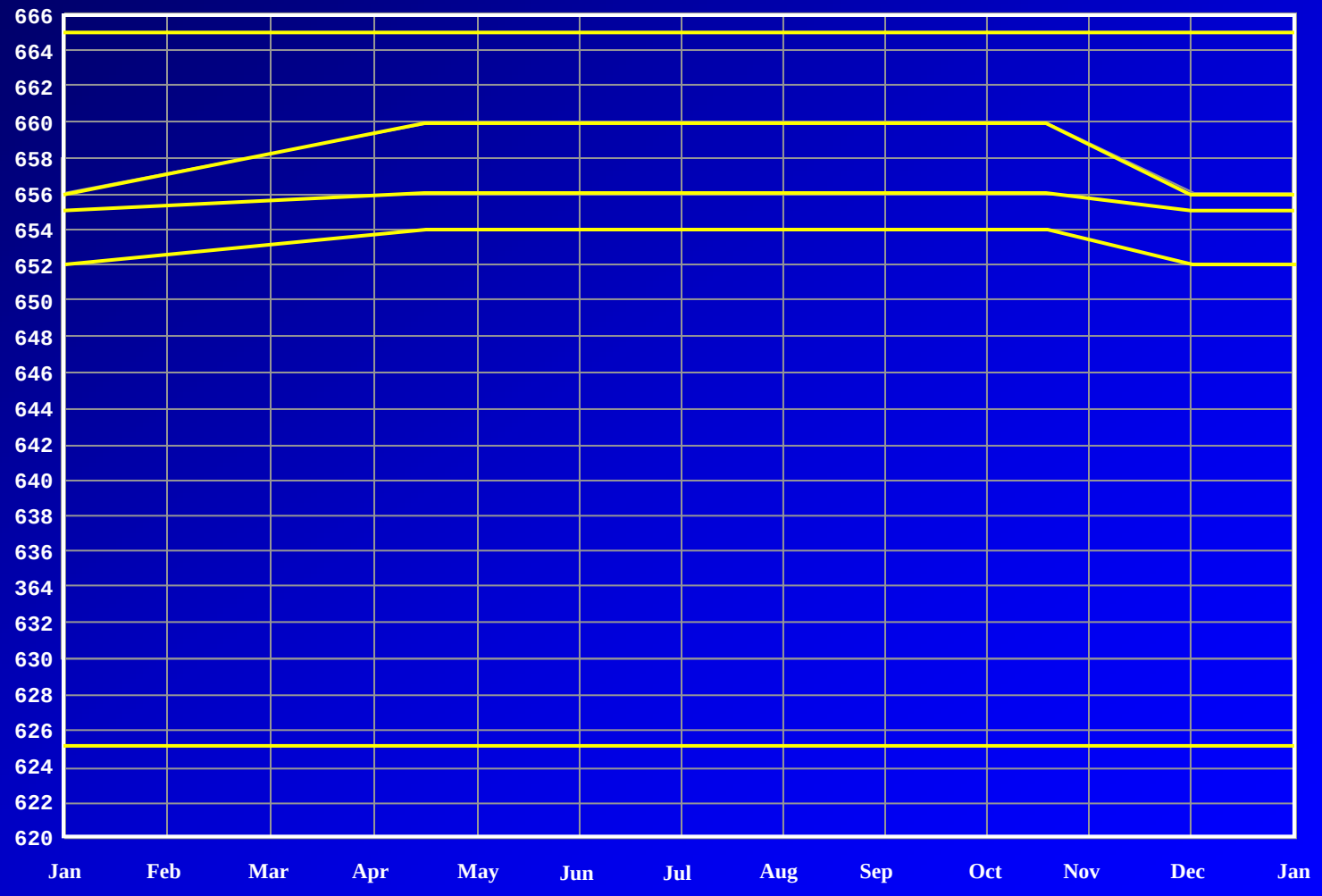
Shift Breakpoints



Reduce Rate of Drawdown



Reduce Rate of Drawdown



Reduce Rate of Drawdown