Solar Calendar Seasons for 293-Year Leap Cycle

Mean Year ≡ $365 \frac{+71}{293}$ days ≡ $365d \ 5h \ 48m \ 56\frac{152}{293}s \approx 365.242320819112628$ days.

Northward Equinox
North Solstice
Southward Equinox
South Solstice
Perihelion
Aphelion
Year 0
Year 500
Year 1000
Year 1500
Year 2000
Year 2500
Year 3000
Year 3500
Year 4000
Year 4500
Year 5000

- 82 days (3.1°) = Mar 24
- 315 days (229.3°) = Nov 12
- SD (hours)

http://individual.utoronto.ca/kalendis/seasons.htm
Analysis by Dr. Irv Bromberg, University of Toronto, Canada
http://individual.utoronto.ca/kalendis/leap/