

Eastern USSA Post Season Quotas: U16 Championships

Eastern Quota Calculator

The quotas to U16 Championships are distributed across 8 recognized USSA Eastern State Associations and awarded based on a combination of population and performance criteria. The Population criteria is based on a State Association's USSA membership numbers for competitors in the relevant age class as compared to the total USSA membership in the * State Associations. The Performance criterion is based on the each State Associations' athlete's results in the relevant event last year. Athlete's performances are compared using each skier's single best result measured using USSA Race Points scored during an event. The U16 Championships have target field sizes of 160 athletes, 80 men and 80 women. All 160 start positions are distributed to the State Associations according to the Population/Performance criteria.

Population Berths

Quotas are awarded as follows; the total number of USSA members in the region is divided by the initial target number of Population Berths yielding a berth/members ratio.

$$TM / Pop = NB$$

TM = Total USSA Membership in Eastern Region

Pop = Target number of Population Berths to be awarded

NB = Number of members required to earn one berth

The State quotas are determined by dividing the States membership by **NB** (Number of members required to earn one berth) plus 1. The value calculated is then truncated (decimals dropped) to determine the assigned quota.

$$SM / NB + 1 = SQ$$

SM = State Membership

SQ = State Quota

Example, if there were 1,000 USSA Members in the East and 40 berths available the number of members required to earn one berth would be 25. A state with 210 members would receive 10 plus 1, or 11 berths.

The actual number of berths awarded will be the sum of the berths awarded to the 8 State Associations. The remaining berths will be awarded based on each States past performance discussed below. For the Population Berth calculation men and women are not separated.

Performance Berths

The number of performance berth is equal to 160 minus the number of Population berth as determined above.

$$160 - \text{Pop} = \text{TPB} \text{ (Performance Berths per Sex} = \frac{1}{2} \times \text{TPB)}$$

Pop = Population Berths

TPB = Total number of Performance Berths

Once the total number of performance berths available has been calculated, half are assigned to each sex.

Performance Berths are awarded to athletes ranked according to the preceding years event based on their single best performance as measured using USSA Race Points (See the USSA Competition Guide for an explanation of the calculation of USSA Race Points. Athletes ranked equal to or better than $\frac{1}{2} \times \text{TPB}$ (Total number of Performance Berths) earn a Performance Berth for their State Association.

The process is performed separately for the men and women. The number of berths earned by each sex is then added together to determine the total performance berths awarded to each State Association.

A State Association's total allocation is determined by adding the population and performance berths as determined above. Quotas are recalculated each season to capture any changes in the 8 State Associations USSA membership numbers and to include their performance at the past event. The State Associations must submit their USSA membership numbers for competitors in the relevant age class to the USSA Eastern Office by January 30th. The USSA Student membership does not apply towards this population count. Each State is responsible for establishing procedures for filling their quotas to these events. Unused quotas from any Eastern State will be returned to the Eastern USSA Office and be redistributed according to an alternate list of athletes.

2014 U16 Post Season Quotas

U16 2014 Championships Quotas

15 % (16 population Berths per sex)/85% (64 Performance Berths per sex) target field size 80 per sex=160

Population Numbers Used for 2014

	ME	NY	NH	NJ	PA	SARA	TSASRA	VT	Total
Actual	89	251	293	56	160	35	171	350	1405
Awarded	2	6	6	2	4	2	4	6	32

Total Berth Size By State	ME	NY	NH	NJ	PA	SARA	TSASRA	VT	Total
	Ladies Performance	7	9	15	0	3	0	2	28
Men Performance	7	9	16	0	1	0	1	30	64
M/L population	2	6	6	2	4	2	4	6	32
2014 Quotas	16	24	37	2	8	2	7	64	160
2013 Quotas	13	24	36	5	6	4	11	61	160

