

**TABLE 3** Contributions of climate (precipitation,  $ET_0$ ) and  $\omega$  to runoff change in the southern and northern Qinling Mountains.

Watershed	Period I	Period II	$dR_p$	$dR_{PET}$	$dR_{\omega}$	$dR'$	$dR$	$\delta$	$C_{(P)}$	$C_{(ET_0)}$	$C_{(\omega)}$
Ba river	1960-1989	1990-2014	-46.21	0.04	-75.06	-121.2	-117.9	-3.3	38.12	-0.03	61.92
Jinqian river	1960-1992	1993-2014	-28.42	2.93	-80.83	-106.3	-99.8	-6.5	26.73	-2.76	76.02

Note:  $dR_p$  represents changes in runoff caused by changes in  $P$ ;  $dR_{PET}$  represents changes in runoff caused by changes in  $PET$ ;  $dR_{\omega}$  represents changes in runoff caused by changes in  $\omega$ ;  $dR'$  represents calculated runoff depth;  $dR$  represents actual runoff depth;  $\delta$  represents the difference between  $dR'$  and  $dR$ ;  $C_{(P)}$  is the contribution rate of precipitation to runoff change; and  $C_{(ET_0)}$  is the contribution rate of potential evapotranspiration to runoff change.  $C_{\omega}$  is the contribution rate of the underlying surface feature parameters to runoff change.