

Assessment of the effects of climate change on the distribution of the western flycatcher (*Empidonax occidentalis*) in the Pacific Northwest

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Abstract. The western flycatcher (*Empidonax occidentalis*) is a common bird species in the Pacific Northwest. It is a member of the Setophaga adelaidae group, which also includes *Salpinctes obsoletus* and *Thryophilus rufalbus*. The western flycatcher is a migratory species that breeds in the Pacific Northwest and winters in the southern United States and northern Mexico. The distribution of the western flycatcher is currently limited to the Pacific Northwest, but it is expected to expand its range as a result of climate change. This study assesses the effects of climate change on the distribution of the western flycatcher in the Pacific Northwest. We use a combination of field observations and climate modeling to assess the effects of climate change on the distribution of the western flycatcher. We find that the western flycatcher is currently limited to the Pacific Northwest, but it is expected to expand its range as a result of climate change. This expansion is expected to occur as a result of warming temperatures and increasing precipitation. The western flycatcher is expected to expand its range into the southern United States and northern Mexico. This expansion is expected to occur as a result of warming temperatures and increasing precipitation. The western flycatcher is expected to expand its range into the southern United States and northern Mexico. This expansion is expected to occur as a result of warming temperatures and increasing precipitation.

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